CV of Victor MALKA

Age: 58, born in Casablanca (Morocco), married, 2 children (Maya and Dinah)

Professional address: Physics of Complex Systems, Weizmann Institute of Science, 234 Herzl street, Rehovot 7610001, Israel
Tel: 089344294, victor.malka@weizmann.ac.il

Fields of interest: plasmas physics, relativistic laser-plasma interaction, plasma accelerators, particles and X ray beam production, ultrafast phenomena, radiotherapy, radiobiology, material science, inertial fusion.

EDUCATION

1998	**HDR University d'Orsay, France**
1988-1990	**École Polytechnique, Palaiseau, France** PhD, atomic and plasmas physics
1985-1987	**University d'Orsay, France** Master degree in physics
1982-1984	**École Nationale Supérieure de Chimie de Rennes, France**

RESEARCH

Since Oct. 2017	**Exceptional Class Research Director at CNRS (on leave)**
Since Oct. 2015	**Professor at Weizmann Institute of Science (Israel)** Relativistic Laser Interaction
2009-2015 *Adj. Faculty Member*	**Tata Institute of Bombay (India)** Relativistic Laser Interaction
Since October 2004 - *CNRS Research Director*	**LOA, Ecole Polytechnique-ENSTA-CNRS, Palaiseau, France** Development and application of plasma particles accelerators
2003-2015 Professor at *Ecole Polytechnique*	**École Polytechnique, Palaiseau, France** Plasmas physics – laser physics courses
October 2001-2004 *CNRS Researcher*	**LOA, Ecole Polytechnique-ENSTA-CNRS, Palaiseau, France** Creation of the SPL group
1994-2001 *CNRS Researcher*	**LULI, École Polytechnique, Palaiseau, France** Plasma laser interaction
1990-1993 *CNRS Researcher*	**LULI, École Polytechnique, Palaiseau, France** Inertial fusion

TEACHING

Professor at Weizmann Institute of Science (since October 2015). Professor at Ecole Polytechnique (2003-2015). Supervisor of 19 PhD students in France, 5 in Italy (Laureat thesis)

PUBLICATIONS

349 Publications, 227 in refereed journal (33 PRL, 3 Nature, 4 Nature Physics, 1 Science, 2 Nature Photonics, 4 Nature Communication, 1 Rev. of Modern Physics, 2 Optics Letters, 7 PRE, 27 Phys. Plasmas, 6 NJP, 2 RSI, 2 PRS-TA, 8 IEEE, etc...). Number of citations 11750 (17800), Hirsch factor 53(60) from ISI-Web of Science (Google Scholar) in July 2019.
178 invited international conferences (more than 45 in plenary session including APS, EPS, IPAC, OASIS), 92 invited seminaries (63 international, 29 national). 4 book chapters. 6 patents.

PRIZES AND AWARDS

2007: IEEE/NPSS Particle Accelerator Science and Technology Award "For groundbreaking work on laser-plasma accelerators".
2008 : Laureat of the European Research Council (AdG de l'ERC) with the project PARIS
2008 : Prix du magazine la Recherche
2008 : Elected by the « French Science Today » program of the French Foreign Office in India
2008 : Fellow of the American Physical Society
2009 : Grand prix de l'Etat de l'Académie des Sciences
2010 : CNRS excellence scientific awards
2011 : ERC PoC grant Awards with the project VERSATILE
2012 : Foreign Honorary Member of the Romanian Academy of Science (AOSR)
2013 : Laureat of the European Research Council (AdG de l'ERC) with the project X-5
2015 : ERC PoC grant Awards with the project XMED
2015 : Batsheva de Rothschild Fellow

2016 : EPS Fellow
2017 : Julius Springer Prize
2017 : Holweck Prize from the French Physical Society and from the Institute of Physics
2017 : QEOD Prize from the European Physical Society
2017 : Member of the European Academy of Sciences
2018 : Officer of the Physics Division of the European Academy of Sciences
2019 : Alfven Prize of the European Physical Society

LEARNED SOCIETIES

Member of SFP, EPS, APS, SIF and SFO. Elected member of EPS Scientific Council 2002-2005.

SCIENTIFIC ADMINISTRATION

Member of the Scientific Council of the "Maison France-Weizmann".
Member of Panel of expert for ERC -PE2-Fundamental Physics (2011-2018), for Swiss National Organiser of « Frontiers in Laser Sciences » conference at Weizmann Institute of Science, Israel (27-28 Juin 2018)
Foundation (2014-2015), for P2IRC in CANADA (2016-2020).
Organiser of the « Medical applications with laser plasma accelerators » symposium, Berlin, (October 5 2017)
Member of the International Review Panel for Wallenberg Foundation in Sweden (2013) and for the international review panel for Distinguished Professor Grant at the Swedish Research Council (2017).
Member of the International Review Panel for Clusters Excellence in Germany (2011).
Member of Panel of expert of HEP and DOE (2005-2010).
Editorial Board of JIPLAAP, of the journal "Problems of Atomic Science and Technology"
Organizer of the Weizmann-X Conference on Frontiers in Laser Science (27-28 Juin 2018)
Organizer of the International Workshop on Laser Plasma Accelerators in Guadeloupe (2015)
Organizer of colloquium on New technologies in Cancer Research and Cancer Treatment for World Conference Medical physics and Biomedical Engineering, Beijing, May 2012.
Associated editors for NIMA special review « Ions Acceleration with high Power Lasers: Physics and Applications » (2009). Organizer of colloquium for SFP UHI 2011.
Editor with C. Joshi for NJP special review « Laser and Beam plasma accelerators » (2010), Editorial board member of Matter and Radiation at Extremes (since 2017)
« Chargé de mission » for CNRS « accelerator and lasers » (2010).
Coordinator of « accelerators » task for ELI and ILE projects. Coordinator of JRA « Laptech » FP7. Coordinator of ACCEL1 (ANR).
Coordinator of WP ANAC IA of EUCARD (European coordinated accelerators research and development), Coordinator of WP LAPTECH IA of LASERLAB2.
Partner of NEST project Euroleap, CARE (FP6), and ANR GOSPEL.
Expert for the DOE, NSF (USA), ESF, ERC, DFG, CEA (DAM and DSM), CLRC (UK), BSF (Israel-USA). President (and founder) of the John Dawson PhD prize since 2005
Member of International IEEE PAST Award committee in 2008, 2009,2010,2011.
Member of scientific committee of conferences and chairman of sessions (>30, CLEO, SPIE, ESF, OSA, FPPT, ICPP, AAC, LPAW, HEDS, ICONO, Organizing Committee of the ICFA Mini-Workshop on Future gamma-gamma, etc…). Member of international advisory committee of LPAW, EAAC, FPPT, HEDS, etc. External reviewer for Professors Position in US, India and in European countries. Member of panel for PhD and HDR diploma in France, Europe and Asia.

POPULARIZATION

Portrait in Le Monde April 25 (2018), France Culture April 4 (2018), The conversation « accélérateurs à plasma-laser, révolution à venir dans le traitement du cancer », 6 avril 2016. Libération (23 avril 2015). Portals H2020-2014, Reflets de la Physique 2013, La recherche 2010, Nature « the plasma revolution » (449, 2007), Science et vie (Mai 2007). Television: France3, France Inter. 30' Interview for the national indian television Dodarsan (Avril 15 2008). Articles in La stampa, Science et Avenir (2007), La recherche (2007, 2010), American Scientific (feb.2006). Author « Pour la science » (mars 2006), La Recherche (avril 2005). Cité dans Frankfurt Allemagne Zeitung (9 march 2005), in Neue Zurcher Zeitung. Author of « Nouvelles sources de particules produites par laser », Bulletin de la SFP juillet-août 2003. Author for « actualité de la Chimie 2007» (Société Française de Chimie). Etc…

INDUSTRIES

Spin-off company "SourceLab" dedicated to compact gamma ray source for non-destructive material inspection and development of laser plasma accelerators. 6 patents.

Victor Malka's Scientific contributions

Summary: 235 articles in peer reviewed journal- 5 book chapters -186 invited talks in conferences with more that 40 plenaries- 139 proceedings - 6 Patents - 180 communications in conference- 66 invited international seminaries and 30 invited national seminaries

List of Publications in refereed journal:

235 Articles in peer-reviewed journals/Articles dans des journaux à comité de lecture: **3 Nature, 1 Science, 4 Nature Physics, 2 Nature Photonics, 4 Nature Communications, 35 Phys. Rev. Lett., 1 Rev. of Modern Physics, 5 Scientific Reports, 2 EPL, 2 Opt. Lett., 7 Phys. Rev. E, 29 Phys. of Plasmas, 2 Medical Physics, 9 Laser and Particle Beams, 9 New Journal of Physics, 7 Nim A**, …

235 Fast dose fractionation using ultra-short laser accelerated proton pulses can increase cancer cell mortality, which relies on functional PARP1 protein
E. Bayart, A. Flacco, O. Delmas, L. Pommarel, D. Levy, M. Cavallone, F. Megnin-Chanet, E. Deutsch, V. Malka, Scientific Reports **9**, 10132 (2019)

234 Axiparabola: a long focal depth, high resolution mirror for broadband high intensity lasers
S. Smartsev, C. Caizergues, J. Gautier, J.-P. Goddet, A. Tafzi, K. Ta Phuoc, V. Malka, and C. Thaury, Optics Letters **44,** 14 (2019)

233 Skew Quadrupole Effect of Laser Plasma Electron Beam Transport
D. Oumbarek Espinos, A. Ghaith, T. André, C. Kitégi, M. Sebdaoui, A. Loulergue, F. Marteau, F. Blache, M. Valléau, M. Labat, A. Lestrade, E. Roussel, C. Thaury, S. Corde, G. Lambert, O. Kononenko, J.-P. Goddet, A. Tafzi, V. Malka and M.-E. Couprie, Appl. Sci. 2019, 9, 2447, doi:10.3390/app9122447

232 Two-stage laser acceleration of high quality proton beams using a tailored density plasma
Y. Wan, I. Andriyash, J. F. Hua, C.-H. Pai, W. Lu, C. Joshi, and V. Malka, Phys. Rev. AB **22**, 2 (2019)

231 Energy-Chirp Compensation in a Laser Wakefield Accelerator
A. Dȍpp, C. Thaury, E. Guillaume, F. Massimo, A. Lifschitz, I. Andriyash, J.-P. Goddet, A. Tazfi, K. Ta Phuoc, and V. Malka, Phys. Rev. Lett. **121**, 074802 (2018)

230 Physical mechanism of the electron-ion coupled transverse instability in laser pressure ion acceleration for different regimes
Y. Wan, C.-H. Pai, C. J. Zhang, F. Li, Y. P. Wu, J. F. Hua, W. Lu, C. Joshi, W. B. Mori, V. Malka, Phys. Rev. E **98**, 1 (2018)

229 High-Brilliance Betatron gamma-Ray Source Powered by Laser-Accelerated Electrons
J. Ferri, S. Corde, A. Döpp, A. Lifschitz, A. Doche, C. Thaury, K. Ta Phuoc, B. Mahieu, I. A. Andriyash, V. Malka, and X. Davoine, Phys. Rev. Lett. **120**, 254802 (2018)

228 Control of ellipticity in high-order harmonic generation driven by two linearly polarized fields
B. Mahieu, S. Stremoukhov, D. Gauthier, C. Spezzani, C. Alves, B. Vodungbo, P. Zeitoun, V. Malka, G. De Ninno, and G. Lambert, Phys. Rev. A **97**, 4 (2018)

227 Shaping of laser plasma accelerated electrons for light sources
T. André, I. A. Andriyash, A. Loulergue, M. Labat, E. Roussel, A. Ghaith, M. Khojoyan, C. Thaury, M. Valléau, F. Briquez, F. Marteau, K. Tavakoli, P. N'Gotta, Y. Dietrich, G. Lambert, V. Malka, C. Benabderrahmane, J. Vétéran, L. Chapuis, T. El Ajjouri, M. Sebdaoui, N. Hubert, O. Marcouillé, P. Berteaud, N. Leclercq, M. El Ajjouri, P. Rommeluère, F. Bouvet, J. -P. Duval, C. Kitegi, F. Blache, B. Mahieu, S. Corde, J. Gautier, K. Ta Phuoc, J. P. Goddet, A. Lestrade, C. Herbeaux, C. Évain, C. Szwaj, S. Bielawski, A. Tafzi, P. Rousseau, S. Smartsev, F. Polack,

D. Dennetière, C. Bourassin-Bouchet, C. De Oliveira, and M.-E. Couprie, Nature Communications **9,** 1334 (2018).

226 Numerical studies of laser energy effects on density transition injection in laser wakefield acceleration
F. Massimo, A. Lifschitz, C. Thaury, V. Malka, Plasma Physics and Controlled Fusion 60, 3, 034005 (2018)

225 Quasi-monoenergetic multi-GeV electron acceleration by optimizing the spatial and spectral phases of PW laser pulses
J. H. Shin, H. T. Kim, V. Pathak, C. Hojbota, S. Lee, J. Sung, L. Jae HeeY. Woon, J. Jin Woo, K. Nakajima, F. Sylla, A. Lifschitz, E. Guillaume, C. Thaury, V. Malka, C. Nam, Plasmas Physics and Controlled Fusion, 60, 6 (2018)

224 Stable multi-GeV electron accelerator driven by waveform-controlled PW laser pulses
H. T. Kim, V. B. Patha, Ki H. Pae, A. Lifschitz, F. Sylla, J. H. Shin, C. Hojbota, S. K. Lee, J. H. Sung, H. W. Lee, E. Guillaume, C. Thaury, K. Nakajima, J. Vieira, L. O. Silva, V. Malka, and C. H. Nam, Scientific Reports 7, 10203 (2017)

223 Generation of high-pressures by short-pulse low-energy laser irradiation
K. Jakubowska, D. Batani, J.-F. Feugeas, P. Forestier-Colleoni, S. Hulin, P. Nicola, J. J. Santos, A. Flacco, B. Vauzour and V. Malka, European Physical Letters **119**, 35001 (2017)

222 Horizon 2020 EuPRAXIA design study
P. A. Walker *et al., J. Phys.: Conf. Ser.* **874**, 012029 (2017)

221 Electron heating by intense short-pulse lasers propagating through near-critical plasmas
A. Debayle, F. Mollica, B. Vauzour, Y. Wan, A. Flacco, V. Malka, X. Davoine, L. Gremillet, New Journal of Physics. NJP-106950.R1 (2017)

220 Stable femtosecond x-rays with tunable polarization from a laser-driven accelerator
A. Doepp, B. Mahieu, A. Lifschitz, C. Thaury, A. Doche, E. Guillaume, G. Grittani, O. Lundh, M. Hansson, M. Kozlova, J. Gautier, J.- P. Goddet, P. Rousseau, A. Tafzi, V. Malka, A. Rousse, S. Corde, and K. Ta Phuoc, Light: Science & Applications, 6 (2017), e17086, doi :10.1038/lsa.2017.86

219 Numerical studies of density transition injection in laser wakefield acceleration
F. Massimo, A. Lifschitz, C. Thaury, V. Malka, Plasma Physics and Controlled Fusion 59, 085004 (2017)

218 Characterization of the ELIMED prototype permanent magnet quadrupole system
A.D. Russo, F. Schillaci, L. Pommarel, F. Romano, A. Amato, A.G. Amico, A. Calanna, G.A.P. Cirrone, M. Costa, G. Cuttone, C. Amato, G. De Luca, F.A. Flacco, G. Gallo, D. Giove, A. Grmek, G. La Rosa, R. Leanza, M. Maggiore, V. Malka, G. Milluzzo, G. Petringa, J. Pipek, V. Scuderi, B. Vauzour and E. Zappalà, Journal of Instrumentation, Volume 12 (2017)

217 Spectral and spatial shaping of a laser-produced ion beam for radiation-biology experiments
L. Pommarel, B. Vauzour, F. Megnin-Chanet, E. Bayart, O. Delmas, F. Goudjil, C. Nauraye, V. Letellier, F. Pouzoulet, F. Schillaci, F. Romano, V. Scuderi, G. A. P. Cirrone, E. Deutsch, A. Flacco, V. Malka, Phys. Rev. Acc. And Beams, 20, 3 (2017)

216 3D printing of gas jet nozzles for laser-plasma accelerators
A. Döpp, E. Guillaume, C. Thaury, J. Gautier, K. Ta Phuoc, and V. Malka, *Review of Scientific Instruments* **87**, 073505 (2016), http://dx.doi.org/10.1063/1.4958649

215 Manipulating relativistic electrons with lasers
V. Malka, *Europhysics Letters*, EPL**115** (2016) 54001

214 Detailed experimental study of ion acceleration by laser interaction of an ultra-short intense laser with an underdense plasma
S. Kahaly, F. Sylla, A. Lifschitz, A. Flacco, M. Veltecheva, and V. Malka, *Scientific Reports*, **6** :31647, DOI :1.1038, srep31647 (2016)

213 Characterization of the elimed permanent magnets quadrupole system prototype with laser-driven proton beams
F. Schillaci, L. Pommarel, F. Romano, G. Cuttone, M. Costa, D. Giove, M. Maggiore, A.D. Russo, V. Scuderi, V. Malka, B. Vauzour, A. Flacco and G.A.P. Cirrone, *Journal of Instrumentation*, **11** (2016)

212 Energy boost in laser wakefield accelerators using sharp density transitions
A. Döpp, E. Guillaume, C. Thaury, A. Lifschitz, K. Ta Phuoc, and V. Malka, Phys. of Plasmas 23, 5 (2016)

211 A bremsstrahlung gamma-ray source based on stable ionization injection of electrons into a laser wakefield accelerator
A. Döpp, E. Guillaume, C. Thaury, A. Lifschitz, F. Sylla, J-P. Goddet, A. Tafzi, G. Iaquanello, T. Lefrou, P. Rousseau, E. Conejero, C. Ruiz, K. Ta Phuoc, V. Malka, *Nuclear Inst. and Methods in Physics Research, A*. 830, 515 (2016)

210 An Application of Laser Plasma Acceleration : Towards a Free-Electron Laser Amplification
M. E. Couprie, M. Labat, C. Evain, F. Marteau, F. Briquez, M. Khojoyan, C. Benabderrahmane, L. Chapuis, N. Hubert, C. Bourassin-Bouchet, M. El Ajjouri, F. Bouvet, Y. Dietrich, M. Valléau, G. Sharma, W. Wang, O. Marcouille, J. Veteran, P. Berteaud, T. El Ajjouri, L. Cassinari, C. Thaury, G. Lambert, I. Andriyash, V. Malka, X. Davoine, M. A. Tordeux, C. Miron, D. Zerbib, K. Tavakoli, J. L. Marlats, M. Tilmont, P. Rommeluere, J. P. Duval, M. H. N'Guyen, A. Roquier, M. Vanderbergue, C. Herbeaux, M. Sebdouai, A. Lestrade, S. Bielawski, C. Szwaj, A. Loulergue, *Plasma Physics and Controlled Fusion,* 58, 3, 034020 (2016)

209 An all-optical source for single-exposure x-ray imaging
A. Döpp, E. Guillaume, C. Thaury, J. Gautier, I. Andriyash, A. Lifschitz, V. Malka, A. Rousse, K. Ta Phuoc, *Plasma Physics and Controlled Fusion*, 58, 3, 034005 (2016)

208 Efficient laser production of energetic neutral beams
F. Mollica, L. Antonelli, A. Flacco, J. Braenzel, B. Vauzour, G. Folpini, G. Birindelli, M. Schnuerer, D. Batani, and V. Malka, *Plasma Physics and Controlled Fusion*, 58, 3, 034016 (2016)

207 Shock assisted ionization injection in laser-plasma accelerators
C. Thaury, E. Guillaume, A. Lifschitz, K. Ta Phuoc, M. Hansson, G. Grittani, J. Gautier, J.-P. Goddet, A. Tafzi, O. Lundh, and V. Malka, Scientific Report, 10.1038, srep16310, Nov. 9 (2015)

206 Electron Rephasing in a Laser-Wakefield Accelerator
E. Guillaume, A. Döpp, C. Thaury, K. Ta Phuoc, A. Lifschitz, G. Grittani, J.-P. Goddet, A. Tafzi, S.W. Chou, L. Veisz, and V. Malka, Phys. Rev. Lett. 115, 155002 (2015)

205 Table-top femtosecond soft X-ray laser by collisional ionization gating,
A. Depresseux A. Depresseux, E. Oliva, J. Gautier, F. Tissandier, J. Nejdl, M. Kozlova, G. Maynard, J.P. Goddet, A. Tafzi, A. Lifschitz, P. Zeitoun, H. T. Kim, S. Jacquemot, V. Malka, K. Ta Phuoc, C. Thaury, P. Rousseau, A. Flacco, B. Vodungbo, G. Lambert, A. Rousse and S. Sebban. Nature Photonics (2015)

204 Physics of fully-loaded laser-plasma accelerators
E. Guillaume, A. Döpp, C. Thaury, A. Lifschitz, J-P. Goddet, A. Tafzi, F. Sylla, G. Iaquanello, T. Lefrou, P. Rousseau, K. Ta Phuoc, and V. Malka, PRSTAB 18, 061301 (2015)

203 Amplified short-wavelength light scattered by relativistic electrons in the laser-induced optical lattice
I.A. Andriyash, V.T. Tikhonchuk, V. Malka, E. D'Humières, and Ph. Balcou, Phys. Rev. ST Accel. Beams 18, 050704 (2015)

202 Demonstration of relativistic electron beam focusing by a laser-plasma lens
C. Thaury, E. Guillaume, A. Döpp, R. Lehe, A. Lifschitz, K. Ta Phuoc, J. Gautier, J.-P. Goddet, A. Tafzi, A. Flacco, F. Tissandier, S. Sebban, A. Rousse, V. Malka, Nature Communications **6**, 6890 (2015)

201 Persistence of magnetic field driven by relativistic electrons in a plasma
A. Flacco, J. Vieira, A. Lifschitz, F. Sylla, S. Kahaly, M. Veltcheva, L. O. Silva, and V. Malka, Nature Physics **11**, (2015)

200 Beam manipulation for compact laser wakefield accelerator based free-electron lasers
A. Loulergue, M. Labat, C. Evain, C. Benabderrahmane, V. Malka, M.-E. Couprie, NJP-102026.R1 (2015)

199 Spatial properties of odd and even order harmonics generated in gas
G. Lambert, A. Andreev, J. Gautier, L. Giannessi, V. Malka, A. Petralia, S. Sebban, S. Stremoukhov, F. Tissandier, B. Vodungbo & Ph. Zeitoun, Scientific Reports 2015, doi :10.1038/srep07786

198 Towards enabling femtosecond helicity dependant spectroscopy with high harmonic sources
G. Lambert, B. Vodungbo, J. Gautier, B. Mahieu, V. Malka, S. Sebban, P. Zeitoun, J. Lüning, J. Perron, A. Andreev, S. Stremoukhov, F. Ardana-Lamas, A. Dax, C. Hauri, A. Sardinha, and M. Fajardo, Nature Communications 6, 6167, doi :10.1038/ncomms7167 (2015)

197 A spectral unaveraged algorithm for free electron laser simulations
I. A. Andriyash, R. Lehe, V. Malka, J. Computational Physics 282, 397-409 (2015)

196 Laser-plasma lens for laser-wakefield accelerators
R. Lehe, C. Thaury, E. Guillaume, A. Lifschitz, and V. Malka, Phys. Rev. ST Accel. Beams 17, 121301 (2014)

195 Towards a free electron laser based on laser plasma accelerators
M. E. Couprie, A. Loulergue, M. Labat, R. Lehe and V. Malka, Journal of Physics B : At. Mol. Opt. Phys. **47** 234001 (2014)

194 Transverse dynamic of an intense electron bunch traveling through a pre-ionized plasma
R. Lehe, C. Thaury, A. Lifshitz, J.-M. Rax, and V. Malka, Physics of plasmas 21, 4 (2014)

193 Ion acceleration in underdense plasmas by ultra-short laser pulses
A. Lifshitz, F. Sylla, S. Kahaly, A. Flacco, M. Veltcheva, G. Sanchez-Arriaga, E. Lefebvre, and V. Malka, New Journal of Physics 16, 033031 (2014)

192 Nano-structured plasma wiggler as a source of high-brightness femtosecond X-ray
I. A. Andriyash, R. Lehe, A. Lifshitz, C. Thaury, J.-M. Rax, K. Krushelnik, and V. Malka, Nature Communications 5, 4736 (2014)

191 Physical processes at work in sub-30 fs, PW laser pulse-driven plasma accelerators: towards GeV electron acceleration experiments at CILEX facility
A. Beck, S. Y. Kalmykov, X. Davoine, A. Lifschitz, B. A. Shadwick, V. Malka, A. Specka, NIM A 67-73, 740 (2014).

190 Angular-momentum Evolution in Laser-Plasma Accelerators
C. Thaury, E. Guillaume, S. Corde, R. Lehe, M. Le Bouteiller, K. Ta Phuoc, X. Davoine, J. M. Rax, A. Rousse, and V. Malka, Phys. Rev. Lett. **111**, 135002 (2013)

189 Optical Transverse Injection in Laser-Plasma Acceleration
R. Lehe, A. F. Lifschitz, X. Davoine, C. Thaury and V. Malka, Phys. Rev. Lett. **111**, 085005 (2013)

188 Comment On "Electron Temperature Scaling In Laser Interaction With Solids"
C. Thaury, V. Malka, and E. Lefebvre, Phys. Rev. Lett. 111, 219501 (2013)

187 Spectral chracterization of fully phase matched High harmonics generated in a hollow waveguide for free electron laser seeding
F. Ardana-Lamas, G. Lambert, A. Trisorio, B. Vodungbo, V. Malka, P. Zeitoun and C.P. Hauri, New Journal of Physics 073040, **15** (2013).

186 Probing Electron Acceleration and X-ray Emission in Laser-Plasma Accelerators
C. Thaury, K. Ta Phuoc, S. Corde, P. Brijesh, G. Lambert, S.P.D. Mangles, M. Bloom, S. Kneip, and V. Malka, Phys. of Plasmas. **20**, 063101 (2013)

185 Numerical growth of emittance in simulations of laser-wakefield acceleration
R. Lehé, A. Lifschitz, C. Thaury, X. Davoine and V. Malka, PRST AB **16**, 021301 (2013)

184 Electron diffraction using ultrafast electron bunches from laser wakefield accelerator at kHz repetition rate
Z.-H. He, A. G. R. Thomas, B. Beaurepaire, J. A. Nees, B. Hou, V. Malka, K. Krushelnick, and J. Faure, Appl. Phys. Lett. 064104, **102** (2013)

183 Short Intense Laser Pulse Collapse in Near Critical Plasma
F. Sylla, A. Flacco, S. Kahaly, M. Veltcheva, A. Lifschitz, E. d'Humières, I. Andriyash, V. Tikhonchuk, and V. Malka, Phys. Rev. Lett. **110**, 085001 (2013)

182 Self-Injection and Stability in Laser-Plasma Accelerators
S. Corde, C. Thaury, A. Lifschitz, G. Lambert, K. Ta Phuoc, X. Davoine, R. Lehe, D. Douillet, A. Rousse, V. Malka, Nature Communications, 4, 1501 (2013).

181 Experimental Measurements Of Electron Bunch Trains In A Laser-Plasma Accelerator
O. Lundh, C. Rechatin, J. Lim, V. Malka, and J. Faure, Phys. Rev. Lett. 065005, **110** (2013)

180 Femtosecond X-rays from Laser-Plasma Accelerators
S. Corde, K. Ta Phuoc, G. Lambert, R. Fitour, V. Malka, A. Rousse, A. Beck and E. Lefebvre, Review of Modern Phys. **85** (2013)

179 Measurements of magnetic field generation at ionization fronts in high intensity laser produced plasmas
B. Walton, S. P. D. Mangles, Z. Najmudin, A. E. Dangor, A. G. R. Thomas, K. Krushelnick, S. Fritzler, V. Malka, New Journal of Physics **15** (2013).

178 Laser Plasma Accelerators research Activities at LOA
Victor Malka, Journal of Intense Pulsed Lasers and Applications in Advanced Physics, **2**, 23-29 (2012)

177 Betatron Emission As A Diagnostic For Injection And Acceleration Mechanisms In Laser Plasma Accelerators
S. Corde, C. Thaury, K. Ta Phuoc, A. Lifschitz, G. Lambert, O. Lundh, P. Brijesh, L. Arantchuk, S. Sebban, A. Rousse, J. Faure, V. Malka, Plasma Physics and Controlled Fusion 54, 124023 (2012)

176 Reconstruction of polar magnetic field from single axis tomography of Faraday rotation in plasmas
A. Flacco, J.-M. Rax, and V. Malka, Phys. of Plasmas, **19**, 103107 (2012)

175 Quasi-monoenergetic electron beams production in a sharp density transition
S. Fourmaux, K. Ta Phuoc, P. Lassonde, S. Corde, G. Lebrun, V. Malka, A. Rousse, and J. C. Kieffer, Appl. Phys. Lett. **101**, 111106 (2012)

174 Optical phase effects in electron wakefield acceleration using few-cycle laser pulses
A. Lifschitz, V. Malka, New Journal of Physics, **14**, 053045 (2012)

173 Tuning the electron energy by controlling the density perturbation position in laser plasma accelerators
P. Brijesh, C. Thaury, K. T. Phuoc, S. Corde, G. Lambert, V. Malka, S.P.D. Mangles, M. Bloom, S. Kneip, Phys. of Plasmas **19**, 063107 (2012)

172 Laser plasma accelerators
V. Malka, Phys. of Plasmas **19**, 055501 (2012).

171 Anticorrelation between ion acceleration and nonlinear coherent structures from laser-underdense plasma interaction
F. Sylla, A. Flacco, S. Kahaly, M. Veltcheva, A. Lifschitz, G. Sanchez-Arriaga, E. Lefebvre, and V. Malka, Phys. Rev. Lett. **108**, 115003 (2012).

170 Experimental characterization of overcritical submillimetric gas jets for Ti:Sapphire laser-plasma interaction
F. Sylla, M. Veltcheva, S. Kahaly, A. Lifschitz, and V. Malka, Review of Science Instruments 83, 033507 (2012).

169 Laser-plasma accelerated high energy electron beams for radiotherapy: Measurements and simulations of dose deposition
O. Lundh, C. Rechatin, J. Faure, A. Ben-Ismail, J. Lim, A. Tafzi, C. De Wagter, W. De Neve, and V. Malka, Med. Phys. 39, 3501 (2012).

168 All optical Compton gamma ray source
K. Ta Phuoc, S. Corde, C. Thaury, V. Malka, A. Tafzi, J.P. Goddet, R.C Shah, S. Sebban, A. Rousse, Nature Photonics 6, 308-311 (2012).

167 Brunel dominated proton acceleration with a few cycle laser pulse
M. Veltcheva, A. Borot, A. Malvache, C. Thaury, E. Lefebvre, A. Flacco, R. Lopez-Martens, and V. Malka, Phys. Rev. Lett. 108, 075004 (2012)

166 Controlled Betatron X-ray radiation from tunable optically injected electrons
S. Corde, K. Ta Phuoc, R. Fitour, J. Faure, A. Tafzi, J. P. Goddet, V. Malka, and A. Rousse, Phys. Rev. Lett. **107**, 255003 (2011).

165 Mapping the X-ray emission region in a laser-plasma accelerator
S. Corde, C. Thaury, K. Ta Phuoc, A. Lifschitz, G. Lambert, J. Faure, O. Lundh, E. Benveniste, A. Ben-Ismail, L. Arantchuk, A. Marciniak, A. Stordeur, P. Brijesh, A. Rousse, A. Specka, and V. Malka, Phys. Rev. Lett. 107, 215004 (2011)

164 impact and high-quality gamma-ray source applied to 10 μm-range resolution radiographies
A.Ben-Ismaïl, O. Lundh, C. Rechatin, J. K. Lim, J. Faure, S. Corde, and V. Malka, Appl. Phys. Lett. 98, 264101 (2011)

163 Single shot phase contrast imaging using laser-produced Betatron x-ray beams
S. Fourmaux, S. Corde, K. Ta Phuoc, P. Lassonde, G. Lebrun, S. Payeur, F. Martin, S. Sebban, V. Malka, A. Rousse, and J. C. Kieffer, Opt. Lett. 36, 13 (2011)

162 Demonstration of the synchrotron-type spectrum of laser-produced Betatron radiation
S. Fourmaux, S. Corde, K. Ta Phuoc, P. M. Leguay, S. Payeur, P. Lassonde, S. Gnedyuk, G. Lebrun, C. Fourment, V. Malka, S. Sebban, A. Rousse, and J. C. Kieffer, *New Journal of Physics* **13** (2011) 033017

161 Comment on "Scaling for radiation from plasma bubbles"
S. Corde, A. Stordeur and V. Malka, Physics of Plasmas 17, 056708 (2011).

160 Few-femtosecond, few kiloAmperes laser-accelerated electron bunches
O. Lundh, J. Lim, C. Rechatin, L. Ammoura, A. Ben-Ismaïl, X. Davoine, G. Gallot, J.-P. Goddet, E. Lefebvre, V. Malka, and J. Faure, Nature Physics 7 (2011)

159 Optimized qualities of g-ray beams produced by a laser-plasma accelerator
A. Ben-Ismail, J. Faure and V. Malka, A 629, 382-386 (2011)

158 Ion acceleration with high power lasers: Physics and applications
G. Turchetti, M. Giovannozzi, V. Malka, NIM A 620, 1 (2010)

157 Cold injection for electron wakefield acceleration
X. Davoine, A. Beck, A. Lifschitz, V. Malka, E. Lefebvre, *New Journal of Physics* **12** (2010) 095010

156 High energy radiation femtochemistry of water molecules: early electron radical pairs processes
Y. A. Gauduel, Y. Glinec, J. P. Rousseau, F. Burgy, V. Malka, Eur. Phys. J. D. 60, 121-135 (2010).

155 Injection and acceleration of quasimonoenergetic relativistic electron beams using density gradients at the edges of a plasma channel
J. Faure, C. Rechatin, O. Lundh, L. Ammoura, and V. Malka, Phys. Of Plasmas 17, 083107 (2010)

154 Exploring ultrashort high-energy electron-induced damage in human carcinoma cells

O. Rigaud, N. O. Fortunel, P. Vaigot, E. Cadio, M. T. Martin, O. Lundh, J. Faure, C. Rechatin, V. Malka and Y. A. Gauduel, Cell Death and Disease (2010).

153 Ultra-short electron beams based spatio-temporal radiation biology and radiotherapy
V. Malka, J. Faure, Y. A. Gauduel, Review of Mutation Research 704, 142-151 (2010)

152 Protontherapy: Basis, indications and new technologies.
A. Mazal, J.-L. Habrand, S. Delacroix, J. Datchary, R. Dendale, L. Desjardins, R. Ferrand, V. Malka, A. Fourquet, Bulletin du Cancer, 97, Juillet 2010

151 Characterization of the beam loading effects in a laser plasma accelerator
C Rechatin, J Faure, X Davoine, O Lundh, J Lim, A Ben-Ismaïl, F Burgy, A Tafzi, A Lifschitz , E Lefebvre, and V Malka, New J. Phys. 12, 045003 (2010)

150 Effects of laser prepulses on laser-induced proton generation
D. Batani, R. Jafer, M. Veltcheva, R. Dezulian, O. Lundh, F. Lindau, A. Persson, K. Osvay, C.-G. Wahlström, D. C. Carroll, P. McKenna, A. Flacco and V. Malka, New J. Phys. 12, 045018 (2010)

149 Proton acceleration by moderately relativistic laser pulses interacting with solid density targets E. Lefebvre, L. Gremillet, A. Lévy, R. Nuter, P. Antici, M. Carrié, T. Ceccotti, M. Drouin, J. Fuchs, V. Malka and D. Neely, New J. Phys. 12, 045017 (2010)

148 Dependence on Pulse Duration and Foil Thickness in High Contrast Laser Proton Acceleration
A. Flacco, F. Sylla, M. Veltcheva, M. Carrié, R. Nuter, E. Lefebvre, D. Batani, and V. Malka, Phys. Rev. E **81**, 036405 (2010)

147 Comparative Study on the Application of High-Contrast and Ultra-High Contrast Methodologies on Multi-Terawatt Laser Systems for Laser Ion Acceleration
A. Flacco, T. Ceccotti, H. George, P. Monot, Ph. Martin, F. Réau, O. Tcherbakoff, P. d'Oliveira, F. Sylla, M. Veltcheva, F. Burgy, A. Tafzi, D. Batani, V. Malka, NIM A 620, 18-22 (2010)

146 Laser Wakefield Plasma Accelerators
K. Krushelnick and V. Malka, Laser&Photonic Rev. 4, 1, 42-52 (2010).

145 Effects of laser prepulses on proton generation
D. Batani, R. Jafer, R. Redaelli, R. Dezulian, O. Lundh, F. Lindau, A. Persson, K. Osvay, C.-G. Wahlström, D. C. Carroll, P. McKenna, A. Flacco, V. Malka, and M. Veltcheva, NIM A 620, 1 (2010)

144 Effects of femtosecond laser pulse duration on thin foil accelerated protons
M. Carrie, E. Lefebvre, A. Flacco, and V. Malka, NIM A 620, 1 (2010)

143 Focus on laser and beam driven plasma accelerators
C. Joshi and V. Malka, New Journal of Physics **12**, 045003 (2010)

142 Smoothing of laser energy deposition by gas jets
D. Batani, R. Benocci, R. Dezulian, R. Redaelli, F. Canova, G. Lucchini, H. Stabile, G. Lucchini, V. Malka, J. Faure; M. Koenig, E. Krousky, K. Masek, M. Pfeifer, J. Skala, R. Dudzak, J. Limpouch, V. Tikhonchuk, and P. Nicolai, EPJ Special Topics 175, pp 65-70 (2009).

141 Influence on Sub Laser picosecond Pulse Duration on Laser Proton Acceleration
M. Carrié, E. Lefebvre, A. Flacco, and V. Malka, Phys. Of Plasmas 16, 053105 (2009)

140 Fast electron energy deposition in aluminium foils: Resistive vs. drag heating
J.J. Santos, A. Debayle, Ph. Nicolaï, V. Tikhonchuk, M. Manclossi, D. Batani, A. Guemnie-Tafo, J. Faure, V. Malka, and J.J. Honrubia, EPJ Special Topics 175, pp 71-76 (2009).

139 Observation of beam loading in a laser-plasma accelerator
C. Rechatin, X. Davoine, A. Lifschitz, J. Faure, A. Ben Ismail, J. Lim, E. Lefebvre, and V. Malka, Phys. Rev. Lett.

102, 194804 (2009)

138 Physics of colliding laser pulses in underdense plasmas
J. Faure, C. Rechatin, A. Ben-Ismail, J. Lim, X. Davoine, E. Lefebvre, V. Malka. Comptes Rendus de l'Académie des Sciences 10 (2009)

137 Principle of laser plasma accelerators
V. Malka & P. Mora, Comptes Rendus de l'Académie des Sciences 10 (2009)

136 Controlling the phase-space volume of injected electrons in a laser-plasma accelerator
C. Rechatin, J. Faure, A. Ben-Ismail, J. Lim, R. Fitour, A. Specka, H. Videau, A. Tafzi, F. Burgy, and V. Malka, Phys. Rev. Lett., **102**, 164801 (2009).

135 Treatment planning for laser-accelerated very high energy electrons
T. Fuchs, U. Oelfke, Y. Glinec, J. Faure, V. Malka, Phys. Med. Biol. **54**, 3315-3328 (2009)

134 Cold Optical Injection Producing Monoenergetic, Multi-GeV Electron Bunches
X. Davoine, E. Lefebvre, C. Rechatin, J. Faure, and V. Malka, Phys. Rev. Lett. 102, 065001 (2009)

133 Laser-driven accelerators by colliding pulses injection: A review of simulation and experimental results
V. Malka, J. Faure, C. Rechatin, A. Ben-Ismail, J. K. Lim, X. Davoine, and E. Lefebvre, Phys. Of Plasmas 16, 056701 (2009).

132 Particle-in-Cell modelling of Laser-Plasma interaction using Fourier decomposition
A.F. Lifschitz, X. Davoine, E. Lefebvre, J. Faure, C. Rechatin, V. Malka, Journal of computational physics 228 (2009).

131 Quasimonoenergetic electron beams produced by colliding cross-polarized laser pulses in underdense plasmas
C. Rechatin, J. Faure, A. Lifschitz, X. Davoine, E. Lefebvre, and V. Malka, New Journal of Physics **11,** 013011 (2009)

130 Direct evidence of gas-induced laser beam smoothing in the interaction with thin foils
R. Benocci, D. Batani, R. Dezulian, R. Redaelli, G. Lucchini, F. Canova, E. Stabile, J. Faure, E. Krousky, K. Masek, M. Pfeifer, J. Skala, R. Dudzak, M. Koenig, V. Tikhonchuk, Ph. Nicolai, V. Malka, Phys. Of Plasmas 16, 012703 (2009)

129 Coronal hydrodynamics of laser-produced plasmas
A. Aliverdiev, D. Batani, R. Dezulian, T. Vinci, A. Benuzzi-Mounaix, M. Koenig, and V. Malka, Physical Review E **78**, 4, 046404 (2008).

128 Characterization of a controlled preplasma expansion in the vacuum of interest for laser driven ion acceleration
A. Flacco, A. Guemnie-Tafo, R. Nuter, M. Veltcheva, D. Batani, E. Lefebvre, and V. Malka, Journal of Applied Physics 104, 103304 (2008)

127 Gas induced smoothing of laser beam inhomogeneties
R. Benocci, D. Batani, R. Dezulian, R. Redaelli, F. Canova, G. Lucchini, E. Krousky, K. Masek, M. Pfeifer, J. Skala, R. Dudzak, J. Ullschmied, V. Malka, J. Faure; M. Koenig, J. Limpouch, W. Nazarov, Plasma Physics and Controlled Fusion 50, 11, 115007 (2008).

126 Simulation of quasi-monoenergetic electron beams produced by colliding pulse wakefield acceleration
X. Davoine, E. Lefebvre, J. Faure, C. Réchatin, A. Lifschitz, and V. Malka, Phys. of Plasmas, **15**, 11 (2008).

125 Influence of a preplasma on electron heating and proton acceleration in ultraintense laser-foil interaction
R. Nuter, L. Gremillet, P. Combis, M. Drouin, E. Lefebvre, A. Flacco and V. Malka, Journal of Applied Physics 104, 103307 (2008)

124 Current advances in smoothing of laser intensity profile
R. Benocci, D. Batani, R. Dezulian, R. Redaelli, G. Lucchini, F. Canova, H. Stabile, J. Faure, E. Krousky, K. Masek, M. Pfeifer, J. Skala, R. Dudzak, M. Koenig, V. Tikhonchuk, P. Nicolai, V. Malka, Radiation Effects and Defects in Solids, Volume 163, Issue 4-6, pp 307-315 (2008).

123 Hydrodynamics of laser-produced plasma corona measured by optical interferometry
A. Aliverdiev, D. Batani, R. Dezulian, T. Vinci, A. Benuzzi-Mounaix, M. Koenig, and V. Malka, Plasma Physics and Controlled Fusion 50, 105013 (2008).

122 Experiments and simulations of the colliding pulse injection of electrons in plasma wakefields
J. Faure, C. Rechatin, A. Lifschitz, X. Davoine, E. Lefebvre, V. Malka, IEEE transactions on plasma science, 36, 4 (2008).

121 Principle and applications of compact laser-plasma electron accelerator
V. Malka, J. Faure, Y. A. Gauduel, E. Lefebvre, A. Rousse, K. Ta Phuoc, Nature Physics 4, 447 (2008).

120 Direct observation of betatron oscillations in a laser-plasma electron accelerator
Y. Glinec, J. Faure, A. Lifschitz, J.M. Vieira, R.A. Fonseca, L. O Silva, V. Malka, Euro. Phys. Lett. 81, 64001 (2008).

119 High flux of relativistic electrons produced in femtosecond laser-thin foil target interactions: Characterization with nuclear techniques
M. Gerbaux, F. Gobet, M. M. Aléonard, F. Hannachi, G. Malka, J. N. Scheurer, M. Tarisien, G. Claverie, V. Méot, P. Morel, J. Faure, Y. Glinec, A. Guemnie-Tafo, V. Malka, M. Manclossi, and J. J. Santos, Rev. Sci. Instrum. 79, 023504 (2008).

118 GeV monoenergetic electron beam with laser plasma accelerator
V. Malka, A. Lifschitz, J. Faure, Y. Glinec, International journal of modern physics B 21, (3-4), p277-286 (2007).

117 Fast electron transport and induced heating in aluminium foils
J. J. Santos, A. Debayle, Ph. Nicolai, V. Tikhonchuk, M. Manclossi, D. Batani, A. Guemnie-Tafo, J. Faure, V. Malka, J. J. Honrubia, Phys. of Plasmas **14**, 103107 (2007).

116 Controlled injection in laser plasma accelerator
J. Faure, C. Rechatin, A. Norlin, F. Burgy, A. Tafzi, J. P. Rousseau, V. Malka, Plasma Physics and Controlled Fusion **49** B395-B402 (2007).

115 Real time probing of radical events with sulfide molecules
Y. Gauduel, Y. Glinec, and V. Malka, SPIE, 6449, E1-12 (2007)

114 Numerical modeling and applications of laser-accelerated ions beams
E. Lefebvre, E. d'Humières, L. Gremillet, S. Fritzler, and V. Malka, Computer Physics Communications **177**, 60 (2007)

113 Observation of fine structures in laser-driven electron beams using coherent transition radiation
Y. Glinec, J. Faure, A. Norlin, A. Pukhov, V. Malka, Phys. Rev. Lett. 98, 194801 (2007).

112 Plasma wake inhibition at the collision of two laser pulses in an underdense plasma
C. Rechatin, J. Faure, A. Lifschitz, V. Malka, and E. Lefebvre, Phys. Of Plasmas 14, 060702 (2007)

111 Analysis of Latent Track for MeV protons in CR-39
S. Kar, M. Borghesi, L. Romagnani, V. Malka, S. Fritzler, A. Schiavi, S. Takahasi, A. Zayats, Journal of Applied Physics 101, 044510 (2007).

110 Recent experiments on the hydrodynamics of laser-produced plasmas conducted at the PALS laboratory
D.Batani, R.Dezulian, R.Redaelli, R.Benocci, H.Stabile, F.Canova, T.Desai, G.Lucchini, E.Krousky, K.Masek, M.Pfeifer, J.Skala, R.Dudzak, B.Rus, J.Ullschmied, V.Malka, J.Faure, M.Koenig, J.Limpouch, W.Nazarov, D.Pepler, H.Nishimura, Laser and Particle Beams Volume 25, Issue 01, March 2007, pp 127-141

109 Compton scattering X ray sources driven by laser wakefield acceleration
F.V. Hartemann, D.J. Gibson, W.J. Brown, J. Faure, V. Malka, A. Rousse, K. Ta Phuoc, A.Pukhov PRS-TA 10011-301 (2007).

108 High quality electron beam produced by laser: A new tool for science
V. Malka, J. Faure, Y. Glinec, A.F. Lifschitz, Journal de Physique IV 135, 65-73 (2006).

107 Controlled injection and acceleration of electrons in plasma wakefields by colliding laser pulses
J. Faure, C. Rechatin, A. Norlin, A. Lifschitz, Y. Glinec, V. Malka, December 7 , Nature 444, 05393 (2006).

106 Transport of intense laser-produced electron beams in matter
D. Batani, M. Manclossi, J. J. Santos, V. T. Tikhonchuk, J. Faure, A. Guemnie-Tafo, and V. Malka, Plasmas Physics and Controlled Fusion, 48 (2006).

105 Numerical simulation of PET isotope production with laser-accelerated ions
E. Lefebvre, E. d'Humières, S. Fritzler, and V. Malka, J. of Appl. Phys. 100, 113308 (2006)

104 Staged concept of laser plasma acceleration toward multi GeV electrons beams
V. Malka, J. Faure, Y. Glinec, A. Lifschitz, PR –STA 9, 091301 (2006).

103 Absolute calibration for a broadrange single shot electron spectrometer
Y. Glinec, J. Faure, A. Guemnie-Tafo, V. Malka, H. Monard, J.P. Larbre, V. De Waele, J.L. Marignier, M. Mostafavi, Rev. Sci. Instrum. 77, 103301 (2006).

102 Characterization of ultra Intense Laser Produced Fast Electron Propagation in Insulators vs Conductors by Optical Emission Diagnostics
M. Manclossi, J. J. Santos, J. Faure, A. Guemnie-Tafo, D. Batani, V.T. Tikhonchuk, A. Debayle and V. Malka, J. Phys. IV France 133, 499 (2006).

101 Ultrafast Imaging of Materials
Wayne E. King, Victor Malka, Michael Armstrong, Bryan W. Reed and Antoine Rousse, Materials Science and Technology, 31 (2006).

100 Multi-MeV laser-produced particle sources: Characterization by activation techniques
M. Gerbaux, M.M. Aléonard, G. Claverie, F. Gobet, F. Hannachi, G. Malka, J.N. Scheurer, M. Tarisien, V. Méot, P. Morel, J. Faure, Y. Glinec, A. Guemnie-Tafo, V. Malka, M. Manclossi and J. Santos, J. Phys. IV France 133, 1139 (2006).

99 Ultra Intense Laser Produced Fast Electron Propagation and Filamentation in Insulators vs Conductors by Optical Emission Diagnostics
M. Manclossi, J. J. Santos, D. Batani, J. Faure, A. Debayle, V.T. Tikhonchuk, and V. Malka, Phys. Rev. Lett. **96**, 125002 (2006)

98 Ultra short laser pulses and ultra short electron bunches generated in relativistic laser plasma interaction.
J. Faure, Y. Glinec, G. Gallot, and V. Malka, Phys. Plasmas **13**, 056706 (2006).

97 On the use of gas jet targets for laser plasma interaction physics with nanosecond laser pulses
V. Malka, J. Phys. IV France 133, 289 (2006).

96 Design of a compact GeV Laser Plasma Accelerator
V. Malka, A. F. Lifschitz, J. Faure, Y. Glinec, NIM A 561, p310-131 (2006)

95 Wakefield acceleration of low energy electron bunches in the weakly nonlinera regime
A. F. Lifschitz, J. Faure, Y. Glinec, V. Malka, NIM A 561, p314-319 (2006)

94 Production of energetic proton beams with lasers
V Malka, A. Guemnie-Tafo, F. Ewald, J. Faure, S. Fritzler, E. d'Humières, E Lefebvre, M.Manclossi, D. Batani,

Rev. of Science Instruments, Vol. 77, No. 3 (2006).

93 Measurements of plasma wave generation using a short pulse high intensity laser beat wave
B. Walton, Z. Najmudin, M. S. Wei, C. Marle, R. J. Kingham, K. Krushelnick, and A. E. Dangor, R. J. Clarke, M. J. Poulter, C. Hernandez-Gomez, S. Hawkes, D. Neely, J. L. Collier, and C. N. Danson, S. Fritzler and V. Malka, Phys. of Plasmas 13, 013103 (2006).

92 Measurements of forward scattered spectra from intense laser interactions in the forced laser wake-field regime
B Walton, P D Mangles, K Krushelnick, Zulfikar Najmudin, A E Dangor, F Burgy, S Fritzler and V Malka, Plasmas Physics and Controlled Fusion 48, 1 29-37 (2006).

91 Laser-driven proton acceleration: scaling laws and new paths towards energy increase
J. Fuchs, P. Antici, E. d'Humières, E. Lefebvre, M. Borghesi, E. Brambrink, C.A. Cecchetti, M. Kaluza, V. Malka, M. Manclossi, S. Meyroneinc, P. Mora, J. Schreiber, T. Toncian, H. Pépin, P. Audebert, Nature Physics, volume 2, issue 1, pp 48-54 (2006)

90 Proposed Scheme for Compact GeV Laser Plasma Accelerator
A. Lifschitz, J. Faure, Y. Glinec, P. Mora, and V. Malka, Laser and Particle Beams 24, 255-259 (2006)

89 Radiotherapy with laser-plasma accelerators: application of an experimental quasi-monoenergetic electron beam
Y. Glinec, J. Faure, T. Fuchs, H. Szymanowski, U. Oelfke, and V. Malka, Med. Phys. **33**, (1) 155-162 (2006)

88 Laser-plasma accelerator: status and perspectives
V. Malka, J. Faure, Y. Glinec, A.F. Lifschitz, Royal Society Philosophical Transactions A, **364**, 1840, 601-610 (2006)

87 Observation of laser pulse self-compression in nonlinear plasma waves
J. Faure, Y. Glinec, J. Santos, V. Malka, S. Kiselev, A. Pukhov, and T. Hosokai, Phys. Rev. Lett. 95, 205003 (2005).

86 Table top laser plasma acceleration as an electron radiography source
S. P. D. Mangles, B. R. Walton, Z. Najmudin, A. E. Dangor, K. Krushelnick,V. Malka, M. Manclossi, N. Lopes, C. Carias, G. Mendes, F. Dorchies, Laser and Particle Beams 24, 01 (2006).

85 GeV Wakefield acceleration of low energy electron bunches using Petawatt lasers
A.F. Lifschitz, J. Faure, V. Malka, and P. Mora, Phys. of Plasmas 12, 0931404 (2005).

84 Proton beam generation by ultra-high intensity laser-solid interaction
Manclossi M, Guemnie-Tafo A, Batani D, Malka V, Fritzler S, Lefebvre E, D'Humieres E, Rad. Eff. And Def. in Solids 160160 (10-12): 631-637 (2005).

83 Les sources de particules ultra-brèves : des développements innovants pour la chimie et les domaines transdiciplianires.
V. Malka, J. Faure, Y. Glinec, Y. Gauduel, L'Actualité Chimique, décembre (2005).

82 Proton acceleration with high intensity lasers interacting on very thin foils
E. d'Humières, E. Lefebvre, L. Gremillet and V. Malka, Phys. of Plasmas **12**, 062704 (2005).

81 Plasma Ion Evolution in the Wake of a High-Intensity Ultrashort Laser Pulse
M. Borghesi, S. V. Bulanov, T. Zh. Esirkepov, S. Fritzler, S. Kar, T. V. Liseikina, V. Malka, F. Pegoraro, L. Romagnani, J. P. Rousseau, A. Schiavi, O. Willi, and A. V. Zayats, Phys. Rev. Lett. **94**, 195003 (2005).

80 Optical shadowgraphy and proton imaging as diagnostics tools for fast electron propagation in ultrahigh-intensity laser-matter interaction
Manclossi M, Batani D, Piazza D, Baton S, Amiranoff F, Koenig M, Popescu H, Audebert P, Santos JJ, Martinolli E, Benuzzi-Mounaix A, Le Gloahec MR, Antonicci A, Rousseaux C, Borghesi M, Cecchetti C, Malka V, Hall T, Rad. Eff. And Def. in Solids 160 (10-12): 575-585 (2005).

79 Laser based synchrotron radiation
K. Ta Phuoc, F. Burgy, J.-P. Rousseau, V. Malka, A. Rousse, R. Shah, D. Umstadter, A. Pukhov, and S. Kiselev, Phys. of Plasmas **12**, 023101 (2005).

78 Quantitative Analysis of Proton Imaging Measurements of Laser Induced Plasmas
T. Repsilber, M. Borghesi, J.-C. Gauthier, K. Löwenbrück, A. MacKinnon, V. Malka, P. Patel, G. Pretzler, L. Romagnani, T. Toncian and O. Willi, Appl. Phys. B (2005).

77 Generation of quasi-monoenergetic electron beams using ultrashort and ultraintense laser pulses
Y. Glinec, J. Faure, A. Pukhov, S. Gordiendko, S. Kiselev, V. Malka, Laser and Particle beams 23, 161-166 (2005).

76 Monoenergetic electron beam optimisation in the bubble regime
V. Malka, J. Faure, Y. Glinec, A. Pukhov, J.P. Rousseau, Phys. of Plasmas **12**, 056702 (2005).

75 Ultrahigh Intensity Laser-Solid Interaction Produced Fast Electron Propagation in Gas Jets
D.Batani, S.D.Baton, F.Amiranoff, J.J. Santos, M. Koenig, E. Martinolli, M.Manclossi, A.Antonicci, C.Rousseaux, M.Rabec Le Gloahec, T.Hall, V.Malka, T.E.Cowan, R.Stephens, M.Key, J.King, Phys. Rev. Lett. 94, 5 (2005).

74 Laser-plasma accelerators: A new tool for science and for society
V. Malka, J. Faure, Y. Glinec, and A.F. Lifschitz, Plasmas Physics and Controlled Fusion 47 (2005) B481-B490

73 High-resolution gamma-ray radiography produced by a laser-plasma driven electron source
Y. Glinec, J. Faure, L. Le Dain, S. Darbon, T. Hosokai, J.J. Santos, E. Lefebvre, J.P. Rousseau, F. Burgy, B. Mercier, and V. Malka, Phys. Rev. Lett. 94 (2005).

72 Direct observation of elementary radical events: low- and high-energy radiation femtochemistry in aqueous solutions
B. Brozek-Pluska, D. Gliger, A. Hallou, V. Malka and Y. A. Gauduel, Radiation and Chemistry, 72, 149-159 (2005).

71 A laser-plasma accelerator producing monoenergetic electron beams
J. Faure, Y. Glinec, A. Pukhov, S. Kiselev, S. Gordienko, E. Lefebvre, J.-P. Rousseau, F. Burgy, V. Malka, Nature **431**, 541, 30 septembre (2004).

70 A new and exciting optically induced electron source
V. Malka, Europhysicsnews, Feb (2004).

69 Emittance measurements of a laser-wakefield accelerated electron beam.
S. Fritzler, V. Malka, E. Lefebvre, Z. Najmudin, K. Krushelnick, S. Mangles, J.-P. Rousseau, F. Burgy, B. Walton, and A.E. Dangor, Phys. Rev. Lett., 92, 16 (2004).

68 Observation of laser driven supercritical radiative shocks precursors. S. Bouquet, C. Stehle, M. Koenig, D. Batani, A. Benuzzi-Mounaix, J.-P. Chièze, X. Fleury, N. Grandjouan, J. Grenier, T. Hall, E. Henry, J.-P.J Lafon, S. Leygnac,V. Malka, B. Marchet, H. Merdji, C. Michaut and F. Thais, Phys. Rev. Lett. 92, 22 (2004).

67 Electron and proton beams produced by ultra short laser pulses in the relativistic regime.
V. Malka, S. Fritzler, Laser and Particles Beam, 22, 4, 399-405 (2004).

66 Femtosecond relativistic electron beam triggered early bioradical events.
Y. Gauduel, S. Fritzler, A. Hallou, Y. Glinec, V. Malka, SPIE Femtosecond Laser Applications in Biology, Vol. 5463, 86-96 (2004)

65 Production of a keV X-ray beam from synchroton radiation in relativistic laser plasma interaction
A. Rousse, K. Ta Phuoc, R. Shah, A. Pukhov, E. Lefebvre, V. Malka, S. Kiselev, F. Burgy, J. P. Rousseau, D. Umstadter, D. Hulin, Phys. Rev. Lett. 93,13 (2004).

64 Electron beam production with an ultra short and intense laser pulse: A new tool for scientists

V. Malka, S. Fritzler, E. Lefebvre, K. Krushelnick, S. P. D. Mangles, Z. Najmudin, B. Walton, and A.E. Dangor, Physica Scripta T107 (2004).

63 Practicability of protontherapy induced by table-top laser systems
V. Malka, S. Fritzler, Régis Ferrand, Georges Grillon, Claude Albaret, Samuel Meyroneinc, Jean-Paul Chambaret, A. Antonetti, and Danièle Hulin, Med. Phys **31**, 6, June 2004.

62 Modelling of laser plasma interaction on hydrodynamic scales: physics development and code validation
S. Weber, G. Riazuelo, P. Michel, R. Loubère, F. Walraet, V. T. Tikhonchuk, V. Malka, J. Ovadia, and G. Bonnaud, Laser and Particle Beams 22 (2), 189-195 (2004).

61 X ray radiation from non-linear Thomson scattering of an intense femtosecond laser on relativistic electrons in helium plasma.
K. ta Phuoc, A. Rousse, M. Pittman, J.P. Rousseau, V. Malka, S. Fritzler, D. umstadter, D. Hulin, Phys. Rev. Lett. **91**, 19 (2003).

60 Spectra of laser irradiated Xenon and Krypton in the wavelength range of 0.5-1nm.
V. Nagels, C. Chenais-Popovics, V. Malka, J.-C. Gauthier, J.F. Wyart, Phys. Scrypta 20, 1023 (2003).

59 Proton beams generated with high-intenisty lasers: applications to medical isotopes production.
S. Fritzler, V. Malka, G. Grillon, J. P. Rousseau, F. Burgy, E. Lefebvre, E. d'Humières, J-P. Mc Kenna, and K. W. D. Ledingham, Appl. Phys. Lett. 83, 15 (2003)

58 Ultra-short electron bunches generated with high-intensities lasers as injectors and X-ray sources.
S. Fritzler, K. Ta Phuoc, V. Malka, A. Rousse, E. Lefebvre, Appl. Phys. Lett. 83, 19 (2003).

57 Electron and photon production from relativistic laser-plasma interactions
E. Lefebvre, N. Cochet, S. Fritzler, V. Malka, M.-M. Aleonard, J.-F. Chemin, S. Darbon, L. Disdier, J. Faure, A. Fedotoff, O. Landoas, G. Malka, V. Meot, P. Morel, M. Rabec Le Gloahec, A. Rouyer, Ch. Rubbelynck, V. Tikhonchuk, R. Wrobel, P. Audebert, C. Rousseaux. Nuclear Fusion 43, 629 (2003).

56 Production of relativistic electrons by laser-plasma interaction and application to the generation of X-ray femtosecond impulses in the keV domain. Marques JR, David PG, Faure J, Fritzler S, Malka V, Najmudin Z, Rousse A, Phuoc KT, Walton B. Journal de physique IV, 108: 143-146 June (2003).

55 Self-modulated wakefield and forced laser wakefield acceleration of electrons.
Z. Najmudin, K. Krushelnick, E. L. Clark, S. P. D. Mangles, B. Walton, A.E. Dangor, S. Fritzler, V. Malka, E. Lefebvre, D. Gordon, F. S. Tsung, and C. Joshi, Phys. of Plasmas. **10**, 5 2071 (2003).

54 The effect of high intensity laser propagation instabilities on channel formation in underdense plasmas.
Z. Najmudin, K. Krushelnick, M. Tatarakis, E. L. Clark, C. N. Danson, V. Malka, D. Neely, M. I. K. Santala, A.E. Dangor, S. Fritzler, Phys. of Plasmas **10**, 2 438 (2003).

53 Enhanced laser plasma smoothing using gas jet
V. Malka, J. Faure, S. Hueller, V. Tickonchuk, S. Weber, F. Amiranoff, Phys. Rev. Lett. **90**, 075002 (2003)

52 The production of energetic electrons from the interaction of an intense laser pulse with an underdense plasma
Z. Najmudin, K. Krushelnick, E. L. Clark, M. Tatarakis, A.Modena, J. Faure, V. Malka,D. Gordon, C. Joshi, Review of Modern Optics 50, 673 (2003).

51 Extra Ion feature of Thomson scattered light in the interaction of a 600 picosecond laser with helium gas jet.
V. Malka, E. De Wispelaere, Ph. Mounaix, S. Huller, F. Amiranoff, F. Dorchies, A. Modena, Phys. of Plasmas **10** 495 (2003).

50 Polychromatic X-ray production in helium from femtosecond and high intensity laser system.
K. Ta Phuoc, A. Rousse, L. Notebaert, M. Pittman, J. P. Rousseau, V. Malka, S. Sebban, J. R. Marquès, P.

Balcou, S. Fritzler, P. G. David, and D. Hulin, J Opt Soc Am B **20** (1): 221-223 JAN (2003).

49 Relativistic electron generation in interaction of a 30TW laser pulse with thin foil target.
G. Malka, M.M. Aleonard, J. F. Chemin, G. Calverie, M. R. Harston, J. N. Scheurer, V. Tickonchuck, S. Fritzler, V. Malka, P. Balcou, G. Grillon, S. Moustaizis, E. Lefebvre, N. Cochet, Phys. Rev. E **66**, 066402 (2002).

48 A Laser Experiment for Studying Radiative Shocks in Astrophysics.
X. Fleury, S. Bouquet, C. Stehle, M. Koenig, D. Batani, A. Benuzzi-Mounaix, J. P.Chièze, N. Grandjouan, J. Grenier, T. Hall, E. Henry, J.-P.J Lafon, S. Leygnac,V. Malka, B. Marchet, H. Merdji, C. Michaut and F. Thais, Laser and Particle beams **20** (2): 263-268 june (2002).

47 Large amplitude plasma wave generation using a high intensity short-pulse beatwave.
B. R. Walton, Z. Najmudin, M. S. Wei, C. Marle, R. J. Kingham, K. Krushelnick, A. E. Dangor, R. J. Clarke, M. J. Poulter, C. Hernandez-Gomez, S. Hawkes, D. Neely, J. L. Collier, C. N. Danson, S. Fritzler, V. Malka, Optic Letter **27**, 24 (2002).

46 Effect of pulse duration on self-focusing of ultra-short lasers in underdense plasmas
J. Faure, V. Malka, J. R. Marques, P.-G. David, F. Amiranoff, K. Ta phuoc, and A. Rousse. Phys. of Plasmas 9, 3 (2002).

45 Charged particle source produced by laser plasma interaction in the relativistic regime.
V. Malka, Laser and Particle Beams 20 (2): 217-221 june (2002).

44 Production of ultra-collimated bunches of multi-MeV electrons by 35 fs laser pulses propagating in exploding-foil plasmas.
D. Giuletti, M. Galimberti, A. Giuletti, L. A. Gizzi, R. Numico, P. Tomassini, M. Borghesi, V. Malka, S. Fritzler, M. Pittman, K. Taphouc and A. Pukhov, Phys. of Plasmas **9**, 9 (2002).

43 Electron Acceleration by a Wakefield forced by an Intense Ultra-Short Laser Pulse
V. Malka, S. Fritzler, E. Lefebvre, M.-M. Aleonard, F. Burgy, J.-P. Chambaret, J.-F. Chemin, K. Krushelnick, G. Malka, S. P. D. Mangles, Z. Najmudin, M. Pittman, J.-P. Rousseau, J.-N. Scheurer, B. Walton, and A.E. Dangor, Science 22, Vol.**298,** Nov. (2002).

42 X-ray emission of a xenon gas jet plasma diagnosed with Thomson scattering.
C. Chenais-Popovics, V. Malka, J.-C. Gauthier, S. Gary, O. Peyrusse, M. Rabec-Le Gloahec, I. Matsuhima, C. Bauche-Arnoult, A. Bachelier, and J. Bauche, Phys. Rev. E 65, 06418 (2002).

41 Ion heating and thermonuclear neutron production from high intensity subpicosecond laser pulses interacting with underdense plasmas
S. Fritzler, Z. Najmudin, V. Malka, K. Krushelnick, C. Marle, B. Walton, M. S. Wei, R. J. Clarke, and A. E. Dangor, Phys. Rev. Lett. **89**, 16 (2002).

40 Ultra-high intensity laser propagation through underdense plasmas
Z. Najmudin, M. Tatarakis, K. Krushelnick, E. L. Clark, V. Malka, J. Faure and A. E. Dangor, IEEE 30, 1 (2002).

39 Study of the dynamics of Raman instabilities using chirped laser pulses
J. Faure, J. R. Marquès, V. Malka, F. Amiranoff, Z. Najmudin, B. Walton, J. P. Rousseau, S. Ranc, A. Solodov, and P. Mora, Phys. Rev. E 63, 065401 (2001).

38 Characterization of plasmas produced by laser gas jet interaction
V. Malka, J. Faure and F. Amiranoff, Phys. of Plasmas 8, 7 (2001).

37 Propagation of a randomised 600 ps laser beam in a helium gas jet over long scale lengths.
J. Faure, V. Malka and F. Amiranoff, Phys. Rev. E 64, 026404 (2001).

36 Measurements of the inverse Faraday effect from relativistic laser interaction with an underdense plasma.
Z. Najmudin, M. Tatarakis, A. Pukhov, K. Krushelnick, R. Allot, E. L. Clark, R. J. Clarke, A. E. Dangor, J. Faure, V. Malka, M. Santala, and A. E. Dangor, Phys. Rev. Lett. 87, 21 (2001).

35 Observation of high current electron beam generated in a self-modulated laser wake-field regime
M. Santala, Z. Najmudin, E. L. Clark, M. Tatarakis,K. Krushelnick, A. E. Dangor, V. Malka, J. Faure, R. Allot, and R. J. Clarke, Phys. Rev. Lett. 86, 7 (2001).

34 Characterization of electron beams produced by ultrashort (30fs) laser pulses.
V. Malka, J. Faure, J. R. Marquès, F. Amiranoff, J. P. Rousseau, S. Ranc, J. P. Chambaret, Z. Najmudin, B. Walton, A. Solodov, P. Mora, Phys. of Plasmas, vol. 8, number 7 (2001).

33 High density jet nozzle design for laser target production
S. Semushin & V. Malka, Rev. Sc. Instruments 72, 7 (2001).

32 Diagnosis of peak laser intensity from high energy ion measurements during intenseMulti-MeV Ion Production from laser interactions with underdense plasmas
K. Krushelnick, E. L. Clark, Z. Najmudin, M. Salvati, M. I. K. Santala, M. Tatarakis, A. E. Dangor, V. Malka, D. Neely, R. Allott, and C. Danson. Laser and particle beams, volume 18, issue 04, October 2000. pp595-600.

31 Interaction of Ultra-intense laser pulse with a non uniform preformed plasma,
J. Faure, V. Malka, J. R. Marques, F. Amiranoff, C. Courtois, Z. Najmudin, K. Krushelnick, M. Salvati, A. E. Dangor, A. Solodov, P. Mora, J.C Adam, A. Heron, Phys. of Plasmas **7**, 7, 3009-3016 (2000).

30 Ultra high intensity laser-produced plasmas as a compact heavy ion injection source,
K. Krushelnick, E. L. Clark, R. Allott, F. N. Beg, C. Danson, A. Machacek, V. Malka, Z. Najmudin, D. Neely, P. A. Norreys, M. Salvati, M. I. K. Santala, M. Tatarakis, I. Watts, M. Zepft, A. E. Dangor, IEEE 28 (4), 1110-1115 (2000).

29 Measurement of the inverse Faraday effect from relativistic laser interactions with an underdense plasma
Z. Najmudin, M. Tatarakis, K. Krushelnick, R. Allott, E. L. Clark, C. Danson, J. Faure, V. Malka, D. Neely, M. I. K. Santala, and A. E. Dangor, IEEE 28 (4), 1136-1145 (2000)

28 Measurement of forward Raman scattering and electron acceleration from high intensity laser plasma interactions at 527 nm,
Z. Najmudin, R. Allott, F. Amiranoff, E. Clark, C. Danson, D. Gordon, C. Joshi, K. Krushelnick, V. Malka, D. Neely, M. Salvati, M. I. K. Santala, M. Tatarakis, and A. E. Dangor, IEEE 28 (4), 1122-1127 (2000).

27 Gas jet electron acceleration using a 527 nm frequency doubled CPA laser pulse and its optimization.
D. Neely, C. N. Danson, R. Allott, F. Amiranoff, E. L. Clark, C. Clayton, J. L. Collier, A. E. Dangor, A. Djaoui, C. B. Edwards, P. Flintoff, D. Gordon, P. Hatton, M. Harman, M. H. R. Hutchinson, K. Krushelnick, G. Malka, V. Malka, A. Modena, Z. Najmudin, D. A Pepler, I. N. Ross, M. Salvati, M. Santala, M. Tatarakis, M. Trentelman, and T. Winstone, J Mod Opt (2000).

26 Investigation of a channelling high intensity laser beam in underdense plasmas.
Z. Najmudin, A. E. Dangor, A. Modena, M. R. Salvati, C. E. Clayton, C. N. Danson, D. Gordon, C. Joshi, K. A. Marsh, V. Malka, P. Muggli, D. Neely, F.N. Walsh, IEEE 28 (4), 1057-1070 (2000)

25 Characterization of neutral density profile in a wide range of pressure of cylindrical pulsed gas jet.
V. Malka, C. Coulaud, J. P Geindre, V. Lopez, Z. Najmudin, D. Neely, F. Amiranoff, Rev. of Scientic Instruments 71, 6, 2329-2333 (2000).

24 Interaction of ultra-intense laser pulses with underdense preformed plasma channel.
V. Malka, J. Faure, J. R. Marques, F. Amiranoff, C. Courtois, Z. Najmudin, K. Krushelnick, M. Salvati, A. E. Dangor, IEEE 28 (4), 1078-1083 (2000).

23 Experimental evidence of heat flux effect on Thomson scattering off ion acoustic waves.
F. Amiranoff, S.D. Baton, C. Coulaud, S. Hüller, V. Malka, A. Modena, Ph. Mounaix, N Renard-Legalloudec, C. Rousseaux, M. Salvati, Phys Rev. E, Rapid Comm, 61, 2, 1949-1953 (2000).

22 Strong self-focusing in quasi-stationary laser plasma
V. Malka, N. Renard-Le Galloudec, S. Hüller, D. Pesme, F. Amiranoff, S.D. Baton, A. Modena, Ph. Mounaix,

C. Rousseaux, M. Salvati. Phys. of Plasmas 7 (10) October (2000).

21 Multi-MeV ion production from high-intensity laser interactions with underdense plasmas
K. Krushelnick, E. L. Clark, Z. Najmudin, M. Salvati, M. I. K. Santala, M. Tatarakis, A. E. Dangor, V. Malka, D. Neely, R. Allott, and C. Danson. Phys. Rev. Lett. 83, 4 (1999).

20 Frequency doubling of multi terawatt picosecond pulse.
D. Neely, C. N. Danson, R. Allott, F. Amiranoff, E. L. Clark, C. Clayton, J. L. Collier, A. E. Dangor, A. Djaoui, C. B. Edwards, P. Flintoff, D. Gordon, P. Hatton, M. Harman, M. H. R. Hutchinson, K. Krushelnick, G. Malka, V. Malka, A. Modena, Z. Najmudin, D. A Pepler, I. N. Ross, M. Salvati, M. Santala, M. Tatarakis, M. Trentelman, and T. Winstone, Lasers and Particle Beams 17, 2, 281-286 (1999).

19 Acceleration of injected electrons in laser wakefield experiment
F. Dorchies, F. Amiranoff, V. Malka, J. R. Marques, A. Modena, D. Bernard, F. Jacquet, Ph. Miné, B. Cros, G. Matthieussent, P. Mora, A. Solodov, J. Morillo, Z. Najmudin, Phys. of Plasmas 6(7), 1999.

18 Formation of plasma channels in the interaction of a nanosecond laser pulse with Helium gas jets
E. De Wispelaere, V. Malka, S. Hüller, F. Amiranoff, S. Baton, R. Bonadio, M. Casanova, F. Dorchies, R. Haroutunian, A. Modena , Phys. Rev. E 59, 6, 7110-7120, juin 1999.

17 Temporal and angular resolution of the ionization-induced refraction of a short laser pulse in helium gas.
P. Chessa, E. De Wispelaere, F. Dorchies, V. Malka, J. R. Marquès, F. Amiranoff, P. Mora, Phys. Rev. Lett. 82, 3 (1999), 552-555.

16 Electron acceleration in laser wakefield experiment at Ecole Polytechnique
Dorchies F., Amiranoff F., Baton S., Bernard D., Cros B., Descamps D., Jacquet F., Malka V., Marques J. R., Matthieussent G., Mine P., Modena A., Mora P., Morillo J., Najmudin Z., Solodov A. Laser and Particle Beams, v. 17, no. 2, p. 299-305, 1999

15 The Laser wakefield acceleration experiment at Ecole Polytechnique.
F. Amiranoff, D. Bernard, B. Cros, F. Dorchies, F. Jacquet, V. Malka, G. Matthieussent, J. R. Marquès, P. Mine, A. Modena, P. Mora, J. Morillo, Z. Najmudin. Nuclear Instruments & Methods in Physical Research A 410 (1998) 364-366.

14 Observation of laser wakefield acceleration of electrons
F. Amiranoff, S. Baton, D. Bernard, B. Cros, D. Descamps, F. Dorchies, F. Jacquet, V. Malka, G. Matthieussent, J. R. Marquès, P. Mine, A. Modena, P. Mora, J. Morillo, Z. Najmudin. Phys. Rev. Lett. 81, 5, 995, 1998.

13 Observation of self-channeling of relativistically-intense laser light in a very underdense plasma.
C. E. Clayton, D. Gordon, K. A. Marsh, C. Joshi, V. Malka, Z. Najmudin, A. Modena, A. E. Dangor, D. Neely, and C. Danson Phys. Rev. Lett. 81, 1, 100, 1998.

12 Efficient generation of narrow bandwidth picosecond pulses using frequency doubling of femtosecond chirped pulses.
F. Raoult, A. C. L. Boscheron, C. Sauteret, A. Modena, V. Malka, and F. Dorchies. Optics Letters 23, 14 (1998), 1117-1119.

11 Measurement of the SBS reflectivity from a spatially smoothed laser beam in a homogeneous large scale plasma.
S.D. Baton, F. Amiranoff, V. Malka, A. Modena, M. Salvati, C. Coulaud, C Rousseaux, N. Renard, Ph. Mounaix, C. Stenz. Phys. Rev. E, Rapid Communications 57, 5, 1998.

10 Observation of electron energies beyond the linear dephasing limit from a laser-excited relativistic plasma wave.
D. Gordon, K. C. Tzeng, C. E. Clayton, A. E. Dangor, V. Malka, K. A. Marsh, A. Modena, W. B. Mori, P. Muggli, Z. Najmudin, D. Neely, C. Danson, and C. Joshi, Phys. Rev. Lett. 80, 10, 1998.

9 Channel formation in long laser pulse interaction with a helium gas jet.

V. Malka, E. De Wispelaere, F. Amiranoff, S. Baton, A. Modena, R. Haroutunian, R. Bonadio, C. Coulaud, D. Puissant, C. Stenz, S. Hüller, Phys. Rev. Lett. 79, 16, 2979, 1997.

8 Second harmonic generation and its interaction with relativistic plasma waves driven by forward Raman instability in underdense plasma.
V. Malka, A. Modena, Z. Najmudin, A. E. Dangor, C. E. Clayton, K. A. Marsh, C. Joshi, C. Danson, D. Neely, and F. N. Walsh. Phys. of Plasmas (4), 1127, 1997.

7 Observation of Raman forward scattering and electron acceleration in the relativistic regime.
A. Modena, Z. Najmudin, and A. E. Dangor, C. E. Clayton, K. A. Marsh, C. Joshi, V. Malka, C. B. Darrow, C. Danson, IEEE Transactions on Plasma Science 24, 2, 289, 1996.

6 Raman back-scattering instability in short pulse laser interaction with helium gas.
V. Malka, E. De Wispeleare, J. R. Marquès, R. Bonadio, F. Amiranoff, F. Blasco, C. Stenz, Ph. Mounaix, G. Grillon, E. Nibbering, Phys. of Plasmas 3 (5), May 1996.

5 Electron acceleration from the breaking of relativistic plasma waves.
A. Modena, Z. Najmudin, and A. E. Dangor, C. E. Clayton, K. A. Marsh, C. Joshi, V. Malka, C. B. Darrow, C. N. Danson, D. Neely, F. N. Walsh., Nature, vol. 377, 606, 19 oct. 1995.

4 Ionisation and X ray emission of a pulsed argon jet irradiated by femtosecond pulse laser.
C. Stenz, F. Blasco, R. Brückner, F. Amiranoff, P. Audebert, E. De Wispelaere, J. P. Geindre, J. C. Gauthier, V. Malka, A. Dos Santos, G. Rey, A. Mysyrowicz, et A. Antonetti. Annales de physique, Colloque C1, vol. 19, octobre 1995.

3 Recent results on implosion directly driven at λ = 0.26 μm laser wavelength.
M. Koenig, V. Malka, E. Fabre, P. Hammerling, A. Michard, J. M. Boudenne, P. Fews, D. Batani, J. P. Garçonnet, Laser and Particles Beam 10 (4), pp 573-583, 1992.

2 Hydrodynamic efficiency measurements from directly driven implosion experiments at λ = 0.26 μm.
M. Koenig, E. Fabre, V. Malka, P. Hammerling, A. Michard, J. M. Boudenne, P. Fews, EuroPhysics Letter 18 (6), pp 493-498, 1992.

1 Effect of radiation on the time resolved rear-side emission of laser illuminated foils at 0.25 μm, comparaison with simulation.
R. Benattar, V. Malka, J. Meyer-Ter-Vehn, M. Murakami, Laser and Particles Beam 1991, vol. 9, no. 2, pp. 541-549.

Book Chapter

5. Applications of laser driven particle acceleration
Victor Malka, chapter 2 on "Laser Wakefield Acceleration of Electrons" edited by P. Bolton, K. Parodi, J. Schreiber, CRC press, pages 1-29 (june 2018), ISBN 9781498766418

4. Introduction and Historical Overview of Plasma Wake Acceleration
Victor Malka, edited by B. Holzer, CERN-2016-001, pages 1-29 (CERN, Geneva, 2016), http://dx.doi.org/10.5170/CERN-2016-001

3 Petawatt laser and laser ion/electron accelerator
Victor Malka and Kiminori Kondo
Comprehensive Biomedical Physics, chapter 8.06, Editor in Chief: Anders Brahme, Elsevier, ISBN : 978-0-444-53633-4 (2014)

2 Laser Plasma Accelerators
Victor Malka, Laser Plasma Interactions and Applications, Edited by Springer ISBN 978-3-319-00038-1 (2013).

1 Laser Plasma Accelerators: Towards High Quality Electron Beam

Victor Malka, Laser pulse phenomena and applications, Edited by Dr. F. J. Duarte, Intechweb.org, ISBN 978-953-307-405-4 (2010)

Patents

6. Lentille Laser Plasma pour électrons relativistes, Laser plasma lens for relativistic electrons,
C. Thaury, R. Lehe, V. Malka, E. Guillaume, PR70864-14, 2016

5. Source of short pulses of high energy photons and method of generating a short pulse of high energy photons
V. Malka, J. Faure, A. Ben-Ismail, E. Lefebvre, EP2320528B1, submitted 10/11/09, published 17/09/14

4. Method and arrangement for generating a jet of fluid, method and system for transforming the jet into plasma, and uses of said system
F. Sylla, M. Veltcheva, S. Kahaly, A. Flacco et V. Malka. US20140254766A1, PCT/FR2012/051297, 1155056 (2011)

3. Device and method for creating a spatial dose distribution in a medium volume (01/2006)
J. Faure, Y. Glinec, V. Malka, T. Fuchs, H. Szymanowski, U. Oelfke PCT/EP2006/064453, US8039819B2 (10/2011)

2. Method and Devices for creating a spatial stable and tuneable quasi monoenergetic electron beam
International number J. Faure, V. Malka, C. Rechatin, A. Norlin, PCT/EP2006/064453

1. Device and method for high energy particle pulse generation
V. Malka, J. Faure, J.P Chambaret, F. Burgy, J.P. Rousseau, Brevet europeen n°04291820.1, US7782914B2, EP1617713A1

Conférence Invitée/ Invited Conference

186 Laser Plasma Accelerator's Challenges for FEL Application
V. Malka, Eupraxia Conference for Users, Roma, June 17-18 (2019)

185 Laser Plasma Accelerators
V. Malka, New Sources of Ionizing Radiation and Accelerators in Israel and their Applications, The Israel Academy of Sciences and Humanities, May 27 (2019)

184 Cells response under high dose rate and multi-bunch irradiation
V. Malka, SPIE, Applying Laser-driven Particle Acceleration Workshop: Using Distinctive Energetic Particle and Photon Sources, Praha, Czech Republic, April 2-3 (2019)

183 Introduction and historical overview of plasma wakefield acceleration
V. Malka (plenary), CAS, CERN School, Sesimbra, Portugal, March 11-22 (2019)

182 Manipulating Relativistic Electrons with Intense Lasers
V. Malka (plenary), 35th Conference on Laser Interaction with Matter (ECLIM), Crete, Oct. 22-26 (2018)

181 Manipulating Relativistic Electrons with Intense Lasers
V. Malka (plenary), International Conference on Ultrafast Optical Science, Moscow, Russia, Oct. 1-5 (2018)

180 Motivations of Laser Plasma Accelerators for Medical Applications
V. Malka, 2nd International Workshop on Iltra-High Dose Rate FLASH Radiation Therapy Lausanne, Suisse, Sept. 12-13 (2018)

179 Manipulating Relativistic Electrons with Lasers
V. Malka (plenary), Congrès de la Société Française d'Optique, Toulouse, France, Juillet 3-6 (2018)

178 Manipulating Relativistic Electrons with Intense Laser Pulses
V. Malka (plenary), 3rd International Conference on Matter and Radiation at Extremes Qingdao, China, May 6-11 (2018)

177 Gas Targets for Laser Plasma Interaction Studies
V. Malka, 3rd International Conference on Matter and Radiation at Extremes, Qingdao, China, May 6-11 (2018)

176 Manipulating Relativistic Electrons with Intense Laser Pulses
V. Malka (plenary), Joint Sessions ALPS/HEDS/XOPT, OPIC conference, Yokohama city, Japan, April 21-26 (2018)

175 Applications of Laser Plasma Accelerators
V. Malka, Symposium on Ultra-intense Laser Technology and Laser Driven Radiation Application, Nov 19-21, Kaifeng, Hanan, China (2017)

174 Principle, Status and Applications of Laser Plasma Accelerators
V. Malka, Séminaire « La Rencontre des Polytechniques » à Conakry, UGAN, Guinée 13-16 novembre 2017

173 Manipulating Relativistic Electrons with Intense Laser Pulses
V. Malka (plenary), Laser Plasma Accelerator Workshop, BSF Conference, Jeju, Korea Republic, August 28-September 1 (2017)

172 Manipulating Relativistic Electrons with Intense Laser Pulses
V. Malka (plenary), Spain Physical Society Annual Meeting, Saint Jacques de Compostelle, Spain, July 17-20 (2017)

171 Laser Plasma Accelerators
V. Malka, Erice Summer's School, Erice, July 7-20 (2017)

170 Particle and radiation beams with laser plasma accelerators
V. Malka, P2IRC annual meeting, Sakastoon, Canada, June 20-22 (2017)

169 Medical Applications with Laser Plasma Accelerators
V. Malka, Ambassade de France à Berlin, May 9 (2017)

168 Key physical concepts for laser plasma accelerators
V. Malka, SPIE Conference, Prague, Czeck Republic, April 24-27 (2017) Prague

167 Manipulating Relativistic Electrons with Intense Laser Pulses
V. Malka, 6th International Workshop on Mechanisms of Vacuum Arcs, Jerusalem, Israel, March 19-23 (2017)

166 Manipulating Relativistic Electrons with Intense Laser Pulses
V. Malka (plenary) OASIS, Conference and Exhibition on Optics and Electro-Optics, Tel-Aviv, Israel, Feb 27-28 (2017)

165 Manipulating Relativistic Electrons with Intense Laser Pulses
V. Malka, The 19th Conference of the Israel Plasma Society, Jerusalem (Israel), February 5 (2017)

164 Manipulating Relativistic Electrons with Intense Laser Pulses
V. Malka, ELI-NP – Université Paris-Saclay Workshop, January 26 – 27, 2017, Magurele

163 The articulation between fundamental quesions and their applications in laboratories in the field of Accelerators
V. Malka, Universities meet Laboratories, Eucard2 conference, LAL, Orsay, France, November 3-4 (2016)

162 Medical Applications of Laser Plasma Accelerators
V. Malka (plenary), ISUIL Conference, Casis, France, October 3-6 (2016)

161 Societal Applications with Laser Plasma Accelerators
V. Malka, PWSC PW Scientific Committee, Montebello, Canada, September 11 (2016)

160 Manipulating Relativistic Electrons with Lasers
V. Malka (plenary), AAC, Washington, USA, July 31-August 5 (2016)

159 Manipulating Relativistic Electrons with Lasers
V. Malka (plenary), ECAART12, University of Jyväskylä, Finland, July 3-8 (2016)

158 Bringing Light into Science
V. Malka (plenary), Conference on Fundamental Science: from cutting-edge technologies to the heart of society, Erice, Italy, June 25-30 (2016)

157 Societal Applications of Laser Plasma Accelerators
V. Malka, ICPP-International Concerence on Plasma Physics, Kaohsiung, Taiwan, June 27-July 1 (2016)

156 Manipulating Relativistic Electrons with Lasers
V. Malka, EXRS2016 European Conference on X-ray Spectroscopy, Gothenburg, June 19-24 (2016)

155 Manipulating Relativistic Electrons with Lasers
V. Malka, The 15th International Conference on X-ray Lasers, Nara, Japan, May 22-27 (2016)

154 Applications industrielles et médicales des accélérateurs laser plasma
V. Malka, Séminaire de réflexion « Les grands lasers, une pépite pour développer une filière industrielle », 30 mars 2016, Paris, France

153 Societal Applications of Laser Plasma Accelerators
V. Malka, ELIMEDICS, Prague, Republic Czech, March 3-4, 2016.

152 Manipulating Electrons with Intense Laser Pulse
V. Malka, Conference on High Intensity Laser and attosecond Science in Israel, February 22-25 2016.

151 Societal Applications of Laser Plasma Accelerators
V. Malka, Applications of Laser-driven Particle Acceleration, Venize, Italy, November 19-21, 2015.

150 Manipulating Electrons with Intense Laser Pulse
V. Malka, International Conference on Extreme Light (ICEL 2015), Bucarest, Romania, November, 23-27, 2015.

149 Electric Field Control in Laser plasma accelerators
V. Malka, PPLA Conference on Plasma Physics by Laser and Application, Frascati, Italy, October 5-7, 2015.

148 Laser plasma accelerators
V. Malka, ELISS, Eli Beamlines & Hilase Summer School, Agust 23-28, 2015, Prague, Czech Republic

147 Laser plasma accelerators: principle, status and applications
V. Malka, 32nd ICPIG International Conference on Phenomena in Ionized Gases, July 26-31, 2015, Iasi, Romania

146 Laser plasma accelerators: principle and applications
V. Malka, International School of Quantum Electronics, Atoms and Plasmas in Super Intense Laser Fields, Erice-Sicily, 11-21 July (2015).

145 Bringing Light into Research. Laser Plasma Accelerators: the Revolution
V. Malka, Symposium on Lasers & Accelerators for Science and Society, Convention Centre Liverpool, UK June 26 (2015).

144 Contributions of gas targerts to laser plasma interaction research
V. Malka, Targetry 2 workshop, Paris April 23 (2015)

143 Laser Plasma Accelerators for Near Term Applications
V. Malka, Research with Extreme Light: Entering New Frontiers with PW Class Lasers Conference; Prague April 13-16 (2015)

142 Plasma Accelerators: Status and Perspectives
V. Malka, MiniWorkshop of accelerators, Legnaro, Italy, February 17 (2015)

141 Advanced FEL approaches with Laser Plasma Accelerators
V. Malka, Advanced Compact FEL Symposium, Ambassade de France à Tokyo, Japan, November 4-5 (2014)

140 Historical of Plasma Accelerators
V. Malka, CERN Accelerators School, November 24-28 (2014)

139 Advanced FEL approaches with Laser Plasma Accelerators
V. Malka, Advanced Compact FEL Symposium, Ambassade de France à Tokyo, Japan, November 4-5 (2014)

138 Ultra-Compact Light Sources with Plasma Wigglers
V. Malka (plenary), Channelling 6th International Conference "Charged & Neutral Particles Channeling Phenomena - Channeling 2014", Capri, Italy, October 5-10 (2014)

137 Compact X ray beams produced with laser plasma accelerators
V. Malka (plenary), 2nd International Conference on High Energy Density Physics (ICHEDP), Beijing, China Sept. 21-24 (2014)

136 Compact X ray beams produced with laser plasma accelerators
V. Malka, Laser Optic Conference 2014, Saint Petersbourg, June 30-July 4 Russie (2014)

135 Overview of Laser Wakefield accelerators
V. Malka, LA³NET on Novel Acceleration Techniques. Dresden, Germany, April 28-30 (2014).

134 Compact Light Sources with Laser Plasma Interactions
V. Malka (plenary) West-Lake Symposium on LPI, Hanghzou, China, April 21-25 (2014)

133 Ultra-compact X ray beams with plasma wigglers
V. Malka (plenary) International Conference on High Energy Density Sciences (HEDS2014), Yokahoma City, Japan April 22-24 (2014).

132 Ultra-brigth X ray Beams with Laser Plasma Accelerators
V. Malka, 10th Workshop "Complex Systems of Charged Particles and Their Interaction With Electromagnetic Radiation", Moscow, Russia, 18-20 April (2013)

131 The 16th Israeli Conference on Plasma Science and Applications
V. Malka, the 16th Israeli Conference on Plasma Science and Applications, Tel-Aviv, Israel February 5 (2014)

130 Compact and ultra-Bright X rays beams from laser plasma accelerators
V. Malka, International Wallenberg Fundation Workshop, Royal Academy of Science, Stockholm January 20-21 (2014)

129 Electron acceleration experiment with CETAL-PW facility
V. Malka, First CETAL PW workshop, Magurele, Romania, November 19-20 (2013)

128 Ultra Bright X-ray Beams from Laser Plasma Interactions
V. Malka, Conference on High Intensity Laser and attosecond Science in Israel, December 2-4 (2013)

127 Generation and Applications of Ultra-bright X-ray beams with Laser Plasma Accelerators
V. Malka, Plasma Physics by Laser and Applications, Lecce, Italy, October 2-4 (2013)

126 Electron and X-ray Beams from Laser Plasma Interactions
V. Malka, International Conference on Research and Applications of Plasmas, Varsaw, Poland, September 2-6 (2013)

125 Ultra Bright X-rays Sources from Laser Plasma Interactions
V. Malka/A. Rousse (plenary), EPS conference on Plasma Physics, Espoo, Finland, July 1-5 (2013)

124 High Quality electron and X-ray Beams delivered by Laser Plasma Accelerators
V. Malka, ICONO, Moscow, Russia, June 18-22 (2013)

123 Plasma accelerators: challenges and limits
V. Malka (highligth) EUCARD meeting, CERN, June 10-14 (2013)

122 Story of Laser Plasma accelerators
V. Malka (plenary) First EAAC, Elba, Italy, June 3-7 (2013)

121 Review of Laser Wakefield accelerators
V. Malka (plenary) 4th International Particle Accelerator Conference, Shanghai, China, May 12-17 (2013)

120 Electron and X-ray Beams Deliverd by Laser plasma accelerators
V. Malka (plenary) 6th International Conference on the Frontiers of Plasma Physics and Technology, Gabarone, Botswana, March 4-8 (2013)

119 High Quality Electron and X-ray Beams Delivered by Laser plasma accelerators
V. Malka (plenary), Coherent Ligth Source Workshop, ALLS, Val David, Quebec, Canada, February 20-22 (2013)

118 Laser plasma accelerators: innovative electron and X-ray beams
V. Malka (plenary), Conference on High Intensity Laser and attosecond Science in Israel, December 3-5 (2012)

117 High quality electron and X-rays beam with laser plasma accelerators.
V. Malka (plenary), VIII Tours Symposium On Nuclear Physics And Astrophysics, Black Forest (Germany), September 10-14 (2012)

116 Ultra brigth Electron with laser plasma accelerators.
V. Malka (plenary), ColdBeam, Nîmes, France, October 1-3 (2012)

115 Ultra brigth Electron and X-rays beam with laser plasma accelerators.
V. Malka (plenary), Channelling2012, Sardigno, Italy, September 24-27 (2012)

114 Electron and X-rays beam with laser plasma accelerators.
V. Malka (plenary), LINAC12, Tel-Aviv, Israel, September 10-14 (2012)

113 Inovative particle and radiation beam with laser plasma accelerators.
V. Malka, FILMIth, Garching, Germany, September 19-21 (2012)

112 Medical applications of laser based particles beam
V. Malka (plenary), SFPM, Strasbourg, France, June 12-15 (2012)

111 Electron and X-rays beam with laser plasma accelerators.
V. Malka (plenary), EPS/ICPP, European Physical Society on Plasma Physics, Stockholm, Sweden, July 2-6 (2012)

110 Innovative electron and X-ray beams with laser plasma accelerators
V. Malka, 15th International Conference « Laser Optics 2012 » Saint Petersbourg, Russia, June 25-29 (2012)

109 Les accélérateurs à plasma laser

V. Malka (plenary), Société Française de Physique, Division Plasmas, Mai 22-24 (2012)

108 Laser plasma accelerators principle, results and applications
V. Malka (plenary), HEDS, High Energy Density Sciences, Yokohama City, Japan, April 25-27 (2012)

107 Laser plasma accelerators
V. Malka (plenary), ISAMP Topical Conference on Interaction of Laser on Atoms, Molecules and Clusters, Hyderabab (INDIA), January 9-12 (2012)

106 Laser plasma accelerators
V. Malka (plenary), APS DPP, Slat Lake City, US, November 14-18 (2011)

105 Laser plasma accelerators for medical applications
V. Malka, OSA FiO, San Jose, US, October 16-20 (2011)

104 State of the Art of Electron Beam poduced by Laser Plasma Accelerator
V. Malka, International Conference on Plasma Science, Lisboa, Portugal, September 17-20 (2011)

103 Ten years of laser plasma accelerators research at LOA
V. Malka
Tsinghua Symposium on Plasma Physics at Extreme, Tsinghua University of Beijing, 27-29 July (2011).

102 Laser plasma accelerators activity at LOA
V. Malka (Lightning talk)
Laser Plasma Accelerators Workshop, Wuzhen, China 19-24 July (2011).

101 LOA Laser plasma accelerators: principle and applications
V. Malka
68th Scottish Universities Summer School in Physics and NATO Advanced Study Institute, Glascow, UK, 14-27 August (2011).

99 Laser plasma accelerators: principle and applications
V. Malka
International School of Quantum Electronics, Atoms and Plasmas in Super Intense Laser Fields, Erice-Sicily, 10-16 July (2011).

98 Status of Laser plasma accelerators in France
V. Malka, EuroNNAC, CERN, May 3-7 (2011)

97 Medical applications with laser plasma accelerators
V. Malka, Highligth talk, Eucard, Paris, France, May 9-13 (2011)

96 State of the Art of Electron Beam poduced by Laser Plasma Accelerator
V. Malka, ICHED, Lisboa, Portugal, May 17-20 (2011)

95 Review of electron beam poduced by laser plasma accelerator
V. Malka, Plenary talk, FPPT5, Singapor, April 18-22 (2011)

94 High quality and high current electron beam poduced by laser plasma accelerator
V. Malka, HILAS, OSA, Istanbul, Turkey, February 15-18 (2011)

93 Compact accelerator producing high current electron beam
V. Malka, Wilhelm und Else Heraeus-Seminar on Particle Accelerators and High Intensity Lasers, Bad Honnef, Germany, December 13-17 (2010)

92 High quality and high current electron beam poduced by laser plasma accelerator
V. Malka, Laserlab user training workshop, Salamanca, Spain, November 8-9 (2010)

91 Electron acceleration with plasma laser
V. Malka, 1st Scientific Workshop of ELI Attosecond Facility, Budapest, Hungary, July 12-13 (2010)

90 Principes et applications de accélérateurs à plasma laser
V. Malka, Expovision « Mesure, Lasers et Applications », Porte de Versailles, France, 2 Juin (2010)

89 A few femtosecond electron bunch measured in colliding laser pulses scheme
V. Malka, Advanced Accelerators Concept workshop, Annapolis, MD, USA, 14-18 Juin (2010)

88 Enhanced ion peak energy by controlling the preplasma of thin foil irradiated by intense and high contrast laser pulse
V. Malka, Advanced Accelerators Concept workshop, Annapolis, MD, USA, 14-18 Juin (2010)

87 Development of Compact Ligth Sources with Intense Laser
V. Malka, workshop DOE Compact Ligth Sources, Rockville, USA, 11-13 May (2010).

86 Applications des accélérateurs laser plasmas pour la radiothérapie et la radiobiologie
V. Malka, workshop Mélusyn, Paris, France, 14 avril (2010).

85 Physics processes related to laser plasma accelerators
V. Malka, ILE-JAEA workshop on laser-driven quantum beams, OSAKA, Japan, March 24-26 (2010).

84 Application of laser-driven plasma acceleration to medicine
V. Malka, highligth talks at EUCARD conference meeting, RAL, April 13-16, UK (2010).

83 Overview of laser plasma Accelerator development
V. Malka, Frontiers in Intense Laser Matter Interaction Theory, MPQ Garching, March 1-3, Germany (2010).

82 Controlled Electron Beam Injection by Colliding Laser Pulses
V. Malka, plenary talk, ICFA workshop on the physics, Maui, Hawaii, Nov. 16-19 (2009)

81 Pertinence of laser proton acceleration for oncology : the SAPHIR project
V. Malka, Coulomb09, Senigaglia, Italie, June 14-18 (2009).

80 On the control of electron beam parameters produced by laser plasma accelerators
V. Malka, ULIS Ultra Intense Laser Interaction Science, Frascati, Italie, May 24-29 (2009).

79 Principle and relevance of laser plasma accelerators for radiotherapy
V. Malka, ICFA, Workshop on high intensity beam dynamic Coulomb8, Senogollia, June 15-18, Italy (2009).

78 Etat de l'art des accélérateurs à laser plasmas
V. Malka, Forum ILP, Giens 14-19 Juin 2009.

77 Electrons acceleration in laser produced plasmas
V. Malka, International School of Quantum Electronics, Atoms and Plasmas in Super Intense Laser Fields, Erice-Sicily, 10 - 16 July 2009.

76 Principle and relevance of laser plasma accelerators for radiotherapy
V. Malka, Second International Symposium on laser driven relativistic plasma applied to science, industry and medicine, Nara, JAPAN 19-23 January (2009).

75 Laser plasma accelerator: experimental aspects of colliding laser pulses approach
V. Malka, EPS, Sofia, Bulgaria, June 29-July 3 (2009).

74 Electrons acceleration in laser plasmas
V. Malka, Applications à la radiothérapie des accélérateurs à plasma laser, Société Française de Physique Médicale, 3-6 Juin 2009.

73 Laser plasma accelerators delivering a fully tunable and stable electron beam
V. Malka, plenary talk, 4th International Conference On The Frontiers Of Plasma Physics And Technology Kathmandou, NEPAL 6-10 april (2009).

72 Laser plasma accelerators: innovative electron beam and potential applications for radiation biology and radiotherapy
V. Malka, FEMTOBIO, San Feliu, SPAIN, February 16-21 (2009).

71 Laser plasma accelerators : towards a high quality electron beam
V. Malka, FRISNO 10, Ein Geidi, Israel, février 11-15 (2009).

70 Principe et pertinence des accélérateurs à plasma laser pour la radiothérapie
V. Malka, Canceropôle, Paris, décembre 15-17 (2008).

69 Performances of laser plasmas accelerators
V. Malka, APS/DPP, Dallas, Texas, US, November 17-21 (2008).

68 Les défis de l'accélération par laser plasmas
V. Malka, FEMTO2008, Université de Strasbourg, France, Septembre 29- Octobre 3 (2008).

67 Performances of Laser plasma accelerators
V. Malka, ECT workshop, Trento, Italy, June 21-25 (2008).

66 Laser plasma accelerators: status, applications and perspectives
V. Malka, Popularization of plasmas, Department of Science and Technology (DST) du Ministry of Science and Technology, Institut of Plasma Research, Ahmedabad, INDIA, May 10-11 (2008).

65 Strategies for future laser plasma accelerators
V. Malka, Highlight talk of CARE annual meeting, Octobre 29-31 (2007).

64 Laser plasma accelerators: high quality and tuneable electron beam
V. Malka, Frontiers in Optics, San Jose, California US, September 16-20 (2007).

63 Laser plasma accelerators: high quality electron beam for radiotherapy
V. Malka, American association of physicists in medecine, Minneapolis, Minnesota US, July 22-26 (2007).

62 Laser plasma accelerators: towards a high quality electron beam
V. Malka, (plénière) Inertial Fusion Science and application, Kobe, Japan, September 9-14 (2007).

61 Principles and diagnostics of Laser Wakefield Accelerator (LWFA)
V. Malka, 8th European Workshop on Beam Diagnostics and Instrumentation for Particle Accelerators - DIPAC May 20-23, Venize, Italy (2007)

60 Medical applications with laser plasma accelerators
V. Malka, workshop on New trends for medical applications symposium, Glascow, Scotland, march 30 (2007).

59 Controlled electron injection in laser plasma accelerator
V. Malka, Dream Beams Symposium, MPQ, Munich, Germany, February 25-28 (2007).

58 Physics and applications of laser-plasma accelerators.
3ieme International Conference On The Frontiers Of Plasma Physics And Technology, Bangkok, Thailand, March 5-9 (2007).

57 Towards a stable and tuneable compact accelerators
V. Malka, workshop on Laser plasma accelerators, Wilhem and Else Heraeus Seminar, Bonn, Germany, February 12-14 (2007).

56 Relativistic plasmas fore future accelerators
International Atomic Physics Workshop, 24-28 Nov., Dresden, Germany 2006

55 Strategies for future accelerators
V. Malka, International Conference on the Interaction of Atoms, Molecules and Plasmas with Intense Ultrashort Laser Pulses 1-5 October, 2006 - Szeged, Hungary

54 Laser plasma accelerators
V. Malka (plénière), Advanced Accelerators Concepts, July 10-14, Lake Geneva, Wisconsin (2006).

53 Design, test and promises of laser plasma accelerators
V. Malka, (plénière) European Particle Acceleration Conference, June 26-30, Edimburgh, UK (2006).

52 Compact laser plasma accelerators for science and society
V. Malka, "Many-Particle Dynamics and Precision Spectroscopy: Trends and Applications", March 30-31, Heidelberg (2006).

51 Medical Applications of particle beam produced with laser plasma accelerators.
V. Malka, "New trends for oncology", Nara 14-16, Japan (2006).

50 Relativistic laser plasma interaction with underdense plasmas : applications for laboratory astrophysics
V. Malka, HEDLA, 6th International Conference on High Energy Density Laboratory Astrophysics, Houston March 10-14, Texas, US (2006).

49 Applications of laser plasma accelerators.
V. Malka, (plenary talk) Taipei, ICFA Beam Dynamics and Advanced & Novel Accelerators
December 12-16, Taiwan (2005).

48 Advanced laser plasma accelerators.
V. Malka, (plenary talk) Taipei, ICFA Beam Dynamics and Advanced & Novel Accelerators December 12-16, Taiwan (2005).

47 Applications of laser based accelerators.
V. Malka, Beijin, November 1, China (2005).

46 Overview of laser based accelerators.
V. Malka, Beijin, November 1, China (2005).

45 L'accélérateur laser plasma
V. Malka, SFP, Roscoff, October 10-12, France (2005).

44 Progress of laser plasma accelerator : The bubble regime
V. Malka, ICOMP, Montreal, October 10-15, CANADA (2005).

43 High fields interaction for compact accelerators.
V. Malka, ICFA, Workshop on high intensity beam dynamic Coulomb5, Senogollia, September 14-16, Italy (2005).

42 A compact design for future accelerators.
V. Malka, 9ieme colloque sur les lasers et l'optique quantique, Dijon, September 6-9, France (2005).

41 Relativistic laser plasma interaction as a compact issue for future accelerators
V. Malka, OSA, Tucson, October 16-20, USA (2005).

40 Relativistic laser plasma interaction as a compact issue for future accelerators
V. Malka, Joint Conference on Ultrafast Optics and Applications of High Field and Short Wavelength sources

(UFO/HFSW), Nara, sept. 25-30 Japan (2005).

39 Medical Applications with laser plasma accelerators
V. Malka, Superstrong Fields in plasmas, Varena, Sept. 19-23 Italie (2005).

38 On the use of gas jet targets for inertial fusion and particle acceleration driven by intense lasers
V. Malka, Inertial Fusion Science and Applications 05, Biarritz, September 5-9 France (2005).

37 Medical Applications with laser plasma accelerators
V. Malka, Laser Pysics 05, Kyoto, July 4-8 Japan (2005).

36 Particle acceleration : the laser plasma approach
V. Malka, Plenary talk, European Physical Society, Tarragona, Spain, June 27-July 1 (2005).

35 SPL results-overview of laser based particle acceleration
V. Malka, Laser-driven plasma accelerators: new sources of energetic particles and radiation
The Royal Society Meeting, June 6-7 (2005).

33 Laser plasma accelerators : status and progress.
V. Malka, International Conference on Coherent and Nonlinear Optic (ICONO), St Petersbourg, Russia May 11-15 (2005).

32 Laser-based particle acceleration.
V. Malka, CLEO CLEO/EUROPE-EQEC 2005, Munich ICM, Germany, 12-17 June (2005).

31 Particle acceleration : the laser plasma approach.
V. Malka, German Physical Society, Berlin, Germany, March 4-9 (2005).

30 Production of monoenergetic electron beam.
V. Malka, Dutch Physical Society on plasma physics and radiation technology, 1-2 March, Lunteren, Pays Bas (2005).

29 Satus of laser plasma accelerators.
V. Malka, Symposium on the Physics in Ultra-intense Laser Fields Tata Institute Mumbay, India, 26 February (2005).

28 Recent progress in laser plasma accelerators.
V. Malka, Second International Conference on the frontiers of plasmas physics and technology, Goa India, Feb. 21-25 (2005).

27 Laser plasma accelerators : progress and applications.
XXV. International Hirschegg Workshop on Physics of High Energy Density in Matter, January 30th to February 4th, Hirschegg, Austria (2005).

26 Recent LOA results on electron and Xray beams produced by compact laser.
V. Malka, ICUIL Lake Tahoe CA, USA 4-7 october (2004).

25 Laser generated particle beams : A new tool for science".
V. Malka, Jaeri, Japan, November 3-6 (2004).

24 Laser generated particle beams : A new tool for science".
V. Malka, 46 American Physical Society, DPP, Savannah, Georgia, US November 15-19, 2004

23 Medical applications of particles beam produced by lasers.
V. Malka, European Conference on Radiotherapy and Oncology, Amsterdam, 24-28 October 2004.

22 Applications of Electrons and protons beams produced by compact lasers.
V. Malka, Workshop on laser nuclear physics in Karlsruhe, 12-15 Septembre 2004.

21 Production of electron and proton beams from relativistic laser-plasma interaction with 30 fs laser pulses.
V. Malka, Tenth Workshop on Targetry and Target Chemistry, Pyle Center, University of Wisconsin, Madison WI USA, August 13-15, 2004.

20 High charge (0.5 nC) monoenergetic 170 +/-20 MeV electrons beam generated by 30 fs laser pulses.
V. Malka, Workshop Advanced Accelerator concept, Stony Broock, US, Juin 2004.

19 The laser based electron beam approach : review and perspectives
V. Malka, First Workshop of ELAN, Frascati Italie, 4-6 mai 2004.

18 On the use of lasers for radiotherapy and protontherapy.
V. Malka, Conference on Radiotherapy and Oncology (Deutschen Gesellschaft für Medizinische Physik). Heidelberg, Germany, 4-5 October 2003.

17 Electron acceleration in the forced laser wake field regime.
V. Malka, Conference on Super Intense Laser Atom Physics
Dallas, Texas USA, 16-19 November 2003.

16 Electron beams produced by compact lasers : a new tool for scientists
V. Malka, International Topical Conference on Plasma Physicis
Santorin-Grece, 8 - 12 Septembre 2003.

15 Electrons acceleration in laser plasmas
V. Malka, International School of Quantum Electronics, Atoms and Plasmas in Super Intense Laser Fields
Erice-Sicily, 5 - 15 July 2003.

14 Particles sources produced by compact lasers : a new tool for Science, a new tool for Society
V. Malka, Workshop on Technological Bottlenecks in Compact High-Intensity Short-Pulse Lasers, Paris, France, 1-3 April (2003)

13 Compact ultra-short, bright and energetic electron source and its application for X-rays flashes production
V. Malka, APS, Austin, Texas, USA, March 3-7, (2003).

12 Particle beams generated by ultra-intense lasers
V. Malka, Second Conference on Science and Technology created by Ultra-Intense Lasers
Feb. 20 - 21, JAERI, JAPAN (2003).

11 Electron beams generation : An overview of experimental results
S. Fritzler (V. Malka), ESF Workshop on Particle Sources with High-Intensity Lasers
Dec. 2 - 4, 2002, Paris.

10 Bright, energetic and ultra-short electrons beam produced by compact TW laser.
V. Malka New direction on laser matter interaction, Bruxelles, Belgique, September 5-7 (2002).

9 Low Emittance 200 MeV electron beam produced by compact laser.
S. Fritzler (V. Malka) Advanced Accelerator Conference CA, June 23-27 (2002).

8 150 MeV electron source produced by laser plasma interaction.
S. Fritzler (V. Malka), RAL, Annual meetings, Oxford, UK, december 20 (2001).

7 Overview of laser plasma particles acceleration in an underdense plasma
V. Malka, Superstrong Fields in plasma Varena Italie (2001).

6 Bright and high energetic particles source produced by laser plasma interaction.
V. Malka, Matter in super intense laser field, San Feliu, Sept 29-Oct 4 (2001).

5 Particles source production by laser plasma interaction.
V. Malka, Annual Conference of the plasma physisc division, Manchester UK, 2-5 April (2001).

4 Overview of laser plasma particles acceleration
V. Malka, European Conference on laser interaction with matter Eclim, Prague (2000).

3 Status and overview of research programs at LULI 2000
V. Malka, European Conference on laser interaction with matter Eclim, Prague (2000)

2 Laser plasma acceleration and guiding.
V. Malka, Fast Ignitor Workshop IV, Palaiseau, France, Avril 3, 2000

1 Electron production using a 0.6J/30fs laser pulse.
V. Malka, RAL, Annual meetings, UK, december 20 (1999)

Proceedings de conférence/conference proceedings (with and without refereed committee)

139 Progress towards laser plasma electron based free electron laser on COXINEL
M. E. Couprie, T. André, F. Blache, F. Briquez, F. Bouvet, Y. Dietrich, J. P. Duval, M. El-Ajjouri, A. Ghaith, C. Herbeaux, N. Hubert, C. Kitégi, M. Khojoyan, M. Labat, N. Leclercq, A. Lestrade, A. Loulergue, O. Marcouillé, F. Marteau, D. Oumbarek, P. Rommeluère, M. Sebdaoui, K. Tavakoli, M. Valléau, S. Corde, J. Gautier, J. P. Goddet, O. Kononenko, G. Lambert, A. Tafzi, K. Ta Phuoc, C. Thaury, S. Bielawski, C. Evain, E. Roussel, C. Szwaj, I. Andriyash, V. Malka, C. Benabderrahmane, FEL Conference, Hambourg, Germany, August 26-30 (2019).

138 Skew quadrupole effect on laser plasma electron beam transport on COXINEL
D. Oumbarek, A. Ghaith, T. André, C. Kitégi, A. Loulergue, F. Marteau, P. N'Gotta, F. Blache, C. Benabderramane, M. Valléau, J. Vétéran, M. Labat, A. Lestrade, E. Roussel, C. Thaury, V. Malka, S. Corde, J. Gautier, J.-P. Goddet, A. Tafzi and M.-E. Couprie, IPAC (2019) 10th international particle accelerator conference. Melbourne, Australia 19 – 24 may (2019).

137 Towards Free Electron Using Laser laser plasma acceleration on COXINEL
M. E. Couprie, T. André, F. Blache, F. Briquez, F. Bouvet, Y. Dietrich, J. P. Duval, M. El-Ajjouri, A. Ghaith, C. Herbeaux, N. Hubert, C. Kitégi, M. Khojoyan, M. Labat, N. Leclercq, A. Lestrade, A. Loulergue, O. Marcouillé, F. Marteau, D. Oumbarek, P. Rommeluère, M. Sebdaoui, K. Tavakoli, M. Valléau, S. Corde, J. Gautier, J. P. Goddet, O. Kononenko, G. Lambert, A. Tafzi, K. Ta Phuoc, C. Thaury, S. Bielawski, C. Evain, E. Roussel, C. Szwaj, I. Andriyash, V. Malka, C. Benabderrahmane, 13th International Confefrence on Synchrotron Radiation Instrumentation, Taipei, Taiwan June 10-15 (2018)

136 Toward compact and ultra-intense laser based soft x-ray lasers
S. Sebban, A. Depresseux, E. Oliva, J. Gautier, F. Tissandier, J. Nejdel, M. Kozlova, G. Maynard, J. P. Goddet, A. Tafzi, A. Lifschitz, H.T. Kim, S. Jacquemot, V. Malka, K. T. Phuoc, C. Thaury, J. P. Rousseau, G. Iaquiniello, P. Lefrou, A. Flacco, B. Vodungbo, G. Lambert, P. Zeitoun, A. Rousse, CLEO, San José, USA, May 14-19 (2017).

135 Horizon 2020 EuPRAXIA design study
P.A. Walter *et al.*, 8th international particle accelerator conference (IPAC 2017), IOP 874, 012029, Copenhague, May 14-19 (2017)

134 Faraday Effect Using High Order Harmonics for Ultrafast Demagnetization Applications
C. Alves, G. Lambert, B. Vodungbo, E. Jal, J. Luning, G. Malinowski, V. Malka, CLEO/EUROPE-EQEC, Munich, Germany, June 25-29 (2017)

133 Femtosecond pulse trains of polychromatic inverse Compton γ-rays from designer electron beams produced by laser-plasma acceleration in plasma channels
S. Y. Kalmykov, I. A. Ghebregziabher, X. Davoine, R. Lehe, A. F. Lifschitz, V. Malka, and B. A. Shadwick, AIP conference proceedings **1777**, 080007 (2016), doi :10.1063/1.4965664

132 The International Laser Plasma Accelerators Workshop 2015 (Guadeloupe, May 10–15)
V. Malka, G. Lambert, A. Flacco, & A. Thomas, Plasma Physics and Controlled Fusion 58, 030101 (2016)

131 Summary of working group 1 : electron beam from plasmas
V. Malka and E. Gschwendtner, NIM-A, 829, 30 (2016)

130 Progress of the LUNEX5 Project
M. E. Couprie, C. Benabderrahmane, P. Berteaud, C. Bourassin-Bouchet, F. Bouvet, L. Cassinari, L. Chapuis, M. Diop, J. Daillant, M. El Ajjouri, C. Herbeaux, N. Hubert, M. Labat, P. Lebasque, A. Lestrade, A. Loulergue, P. Marchand, J. L. Marlats, C. Miron, P. Morin, A. Nadji, F. Polack, F. Ribeiro, J. P. Ricaud, P. Roy, K. Tavakoli, M. Valléau, D. Zerbib, S. Bielawski, C. Evain, E. Roussel, C. Szwaj, G. Lambert, V. Malka, R. Lehe, A. Rousse, C. Thaury, G. Devanz, C. Madec, A. Mosnier, D. Garzella, B. Carré, N. Delerue, X. Davoine, A. Dubois, J. Lüning, International Particle Accelerators Conference IPAC 2015

129 Mechanical engineering solutions for coxinel project

K. Tavakoli, T. André, I. Andriyash, C. Basset, C. Benabderrahmane, P. Berteaud, S. Bobault, S. Bonnin, F. Bouvet, F. Briquez, L. Chapuis, M. E. Couprie, Y. Dietrich, D. Dennetière, C. De Oliviera, J. P. Duval, M. El Ajjouri, T. El Ajjouri, C. Herbeaux, N. Hu- bert, M. Khojoyan, M. Labat, N. Leclercq, A. Lestrade, A. Loulergue, O. Marcouillé, A.Mary, F. Marteau, P. Ngotta, F. Polack, P. Rommmeluère, M. Sebdaoui, F. Thiam, M. Valléau, J. Vétéran, D. Zerbib, J. Gauthier, K. Ta Phuoc, G. Lambert, V. Malka, A. Rousse, C. Thaury, IPAC 2015

128 Experiment preparation towards a demonstration of laser plasma based free electron laser amplification
A. Loulergue, C. Benabderrahmane, P. Berteaud, C. Bourassin-Bouchet, F. Bouvet, F. Briquez, L. Cassinari, L. Chapuis, M. El Ajjouri, C. Herbeaux, N. Hubert, M. Khojoyan, M. Labat, A. Lestrade, J. Luning, O. Marcouillé, J.-L. Marlats, F. Marteau, C. Miron, P. Morin, F. Polack, K. Tavakoli, M. Valléau, D. Zerbib, W. Yang, X. Davoine, I. Andriyash, G. Lambert, V. Malka, C. Thaury, S. Bielawski, C. Evain, C. Szwaj, M.-E. Couprie, Proceedings SPIE 2015

127 Accordion Effect in Plasma Channels: Generation of Tunable Comb-Like Electron Beams
S. Y. Kalmikov, B. A. Shadwick, I. Ghebregziabher, X. Davoine, R. Lehe, A. Lifschitz, V. Malka, IEEE 978-1-4799-2713-5 (2014)

126 The LUNEX5 Project in France
M. E. Couprie, C. Benabderrahmane, P. Betinelli, P. Bertinelli, F. Bouvet, A. Buteau, L. Cassinari, J. Daillant, J. C. Denard, P. Eymard, B. Gagey, C. Herbeaux, M. Labat, B. Lagarde, A. Lestrade, A. Loulergue, P. Marchand, J. L. Marlats, C. Miron, P. Morin, A. Nadji, F. Polack, J. B. Pruvost, F. Ribeiro, J. P. Ricaud, P. Roy, T. Tanikawa, R. Roux, S. Bielawski, C. Evain, C. Szwaj, G. Lambert, A. Lifschitz, V. Malka, R. Lehe, A. Rousse, K. Ta Phuoc, C. Thaury, G. Devanz, M. Luong, B. Carré, G. LeBec, L. Farvacque, A. Dubois, J. Lüning, Conference: 13th International Conference on X-Ray Lasers (ICXRL) Location: Paris, FRANCE Date: JUN 11-15, 2012, Edited by: S. Sebban, J. Gautier, D. Ros, Ph. Zeitoun, X-RAY LASERS 2012 Book Series: Springer Proceedings in Physics, Volume: 147, Pages: 55-62 (2014)

125 Ultrafast sub-nanometric spatial accuracy of a fleeting quantum probe interaction with a biomolecule: innovating concept for spatio-temporal radiation biomedicine
Gauduel, Yann A.; Malka, Victor
Conference on Nanoscale Imaging, Sensing, and Actuation for Biomedical Applications XI Location: San Francisco, CA Date: FEB 03-06, 2014, SPIE, NANOSCALE IMAGING, SENSING, AND ACTUATION FOR BIOMEDICAL APPLICATIONS XI Book Series: Proceedings of SPIE, Volume: 8954, Article Number: 89540A (2014)

124 Progrès récents dans le transport de faisceau d'électrons permettant d'envisager l'émission cohérente à partir d'accélération plasma
A. Loulergue, M. E. Couprie, M. Labat, C. Benabderrahmane, V. Malka, C Evain, Conference UVX 2014

123 Avancement du projet LUNEX5
M. E. Couprie, C. Benabderrahmane, P. Berteaud, C. Bourassin-Bouchet, F. Bouvet, L. Cassinari, L. Chapuis, M. Diop, J. Daillant, M. El Ajjouri, C. Herbeaux, N. Hubert, M. Labat, P. Lebasque, A. Lestrade, A. Loulergue, P. Marchand, J. L. Marlats, C. Miron, P. Morin, A. Nadji, F. Polack, F. Ribeiro, J. P. Ricaud, P. Roy, T. Tanikawa, K. Tavakoli, M. Valléau, D. Zerbib, S. Bielawski, C. Evain, C. Szwaj, G. Lambert, A. Lifschitz, V. Malka, R. Lehe, A. Rousse, C. Thaury, G. Devanz, C. Madec, A. Mosnier, D. Garzella, B. Carré, N. Delerue, X. Davoine, A. Dubois, J. Lüning, Conference UVX 2014

122 Progress of the LUNEX5 Project
M.-E. Couprie, C. Benabderrahmane, L. Cassinari, J. Daillant, C. Evain, N. Hubert, M. Labat, A. Loulergue, J. Lυning, P. Marchand, O. Marcouillé, C. Miron, P. Morin, A. Nadji, P. Roy, S. Bielawski, E. Roussel, C. Szwaj, B. Carré, D. Garzella, N. Delerue, G. Devanz, A. Dubois, G. Lambert, R. Lehe, V. Malka, C. Thaury, M. Luong, proceedings of the 35th International Free Electron Laser Conference, Manhattan, USA, August 26-30 (2013)

121 A high repetition rate laser wakefield accelerator for studies of electron acceleration
A. He, J. A. Nees, B. Hou, B. Beaurepaire, V. Malka, K. Krushelnick, J. Faure, A. G. R. Thomas, SPIE, Vol. 8779, 877905 (2013).

120 Observation of longitudinal and transverse self-injection in laser wakefield accelerator

C. Thaury, S. Corde, A. Lifschitz, G. Lambert, K. Ta Phuoc, X. Davoine, R. Lehe, D. Douillet, A. Rousse, SPIE, Vol. 8779, 877905 (2013).

119 The ELI-ALPS secondary sources: a getaway to scientific excellence
Cord L. Arnold, Fernando Brizuela L, Antonin Borot, Francesca Calegari, Dimitris Charalambidis, Zsolt Diveki, Peter Dombi, Jozsef A. Fülöp, Christoph M. Heyl, Anne L'Huillier, Dino Jaroszynski, Per Johnsson, Victor Malka, Mikhail Kalashnikov, Malte Kaluza, Dominik Kandula, Rodrigo Lopez-Martens, Mauro Nisoli, Karoly Osvay, Fabien Quere, Ervin Racz, Arnaud Rouzée, Piotr Rudawski, Paris Tzallas, Marc Vrakking, CLEO San Jose CA, USA, 4-9 June 2013.

118 Observations of longitudinal and transverse self-injections in laser-plasma wakefield accelerators
C. Thaury, S. Corde, A. Lifschitz, G. Lambert, K. Ta Phuoc, X. Davoine, R. Lehe, D. Douillet, A. Rousse, V. Malka, SPIE Optics+ Optoelectronics, May 2013.

117 The LUNEX5 project in France
M. E. Couprie, C Benabderrahmane, P Betinelli, F Bouvet, A Buteau, L Cassinari, J Daillant, JC Denard, P Eymard, B Gagey, C Herbeaux, M Labat, B Lagarde, A Lestrade, A Loulergue, P Marchand, JL Marlats, C Miron, P Morin, A Nadji, F Polack, JB Pruvost, F Ribeiro, JP Ricaud, P Roy, T Tanikawa, R Roux, S Bielawski, C Evain, C Szwaj, G Lambert, A Lifschitz, V Malka, R Lehe, A Rousse, K Ta Phuoc, C Thaury, G Devanz, M Luong, B Carré, G LeBec, L Farvacque, A Dubois, J Lüning, Journal of Physics: Conference Series 425 (7), 072001 (2013)

116 Generation And Metrology Of The 6th Harmonic Generated From Gas At 135 nm In View Of Seeding FEL
G. Lambert, J. Gautier, B. Vodungbo, Ph. Zeitoun, S. Sebban, V. Malka, A. Petrallia, L. Giannessi, proceedings Conference FEL, 26-31 august 2012 Nara (Japan).

115 Progress On The Generation Of Undulator Radiation In The UV From A Plasma-Based Electron Beam
G. Lambert, S. Corde, K. Ta phuoc, V. Malka, A. Ben Ismail, E. Benveniste, A. Specka, M. Labat, A. Loulergue, R. Bachelard, M.E. Couprie, proceedings Conference FEL, 26-31 august 2012 Nara (Japan).

114 Control and mapping of X-ray emission in a laser-plasma accelerato
C. Thaury, S. Corde, K. Ta Phuoc, A. Lifschitz, R. Fitour, J. Faure, G. Lambert, O. Lundh, E. Benveniste, A. Ben-Ismail, L. Arantchouk, A. Marciniak, A. Stordeur, P. Brijesh, A. Specka, V. Malka, A. Rousse, Quantum Electronics and Laser Science Conference, June 2012.

113 All-optical Betatron and Compton x-ray sources and application to phase contrast imaging
S. Corde, K. Ta Phuoc, S. Fourmaux, C. Thaury, P. Lassonde, G. Lebrun, S. Payeur, F. Martin, R.C. Shah, S. Sebban, V. Malka, J.C. Kieffer, A. Rousse, Lasers and Electro-Optics (CLEO), May 2012

112 Bright femtosecond X-ray beams form betatron radiation and Thomson backscattering
C. Thaury, S. Corde, K. Ta Phuoc, V. Malka, A. Rousse**,** High intensity lasers and high field phenomena, March 2012

111 Numerical Study Of An FEL Based On LWFA Electrons And A Laser-Plasma Wiggler
R. Lehe, X. Davoine, G. Lambert, A.F. Lifschitz, J.-M. Rax, V. Malka, proceedings Conference FEL, 26-31 august 2012 Nara (Japan).

110 LUNEX5: towards an advanced FEL
M. Labat, C. Benabderrahmane, P. Betinelli, F. Bouvet, A. Buteau, L. Cassinari, M. E. Couprie, J. Daillant, J. C. Denard, P. Eymard, B. Gagey, C. Herbeaux, A. Lestrade, A. Loulergue, P. Marchand, J. L. Marlats, C. Miron, P. Morin, A. Nadji, F. Polack, J. B. Pruvost, F. Ribeiro, J. P. Ricaud, P. Roy, T. Tanikawa, R. Roux, S. Bielawski, C. Evain, C. Szwaj, G. Lambert, A. Lifschitz, V. Malka, R. Lehe, A. Rousse, K. Ta Phuoc, C. Thaury, G. Devanz, M. Luong, B. Carré, G. LeBec, L. Farvacque, A. Dubois, J. Lüning, Proccedings de UVX 2012, 12-15 Juin 2012 Porquerolles (France).

109 The LUNEX5 project in France
M. E. Couprie, C. Benabderrahmane, P. Betinelli, F. Bouvet, A. Buteau, L. Cassinari, J. Daillant, J. C. Denard, P. Eymard, B. Gagey, C. Herbeaux, M. Labat, A. Lestrade, A. Loulergue, P. Marchand, J. L. Marlats, C. Miron1, P.

Morin, A. Nadji, F. Polack, J. B. Pruvost, F. Ribeiro, J. P. Ricaud, P. Roy, T. Tanikawa, R. Roux, S. Bielawski, C. Evain, C. Szwaj, G. Lambert, A. Lifschitz, V. Malka, R. Lehe, A. Rousse, K. Ta Phuoc, C. Thaury, G. Devanz5, M. Luong, B. Carre, G. LeBec, L. Farvacque, A. Dubois, J. Lüning, Proceedings ICXRL 2012, 11-15 Juin 2012, Paris (France).

108 The Lunex5 Project
M. E. Couprie, C. Benabderrahmane, M. Bessiere, P. Betinelli, F. Bouvet, A. Buteau, L. Cassinari, J. Daillant, J. C. Denard, P. Eymard, B. Gagey, C. Herbeaux, M. Labat, A. Lestrade, A. Loulergue, P. Marchand, J. L. Marlats, C. Miron, P. Morin, A. Nadji, F. Polack, J. B. Pruvost, F. Ribeiro, J. P. Ricaud, P. Roy, R. Roux, S. Bielawski, C. Evain, C. Szwaj, G. Lambert, A. Lifschitz, V. Malka, A. Rousse, A. Dubois, J. Lüning, G. Lebec, L. Farvacque, G. Devanz, M. Luong, Proceedings Fel2012, 26-31 aout 2012, Nara (Japan).

107 FEL Performances of the French LUNEX5 Project
C. Evain, S. Bielawski, M. Labat, A. Loulergue, C. Benabderrahmane, M.-E. Couprie, G. Lambert, A. Lifschitz, V. Malka, Proceedings FEL2012, 26-31 aout 2012, Nara (Japan).

106 High harmonics from gas, a suitable source for seeding fel from the vacuum-ultraviolet to soft x-ray region
G. Lambert, B. Vodungbo, J. Gautier, A. Sardinha, F. Tissandier, Ph. Zeitoun, V. Malka, S. Sebban, M.E. Couprie, M. Labat, O. Chubar, T. Hara, H. Kitamura, T. Shintake, Y. Tanaka, T. Tanikawa, D. Garzella, B. Carré, J. Luning, C.P. Hauri, M. Fajardo, Proceedings FEL2011, 22-26 Aout 2011, Shengai (CHINA)

105 LUNEX5: an FEL project towards the fifth generation in France
M. E. Couprie, F. Briquez, C. Benabderrahmane, C. Evain, J. C. Denard, P. Eymard, F. Ferrari, J. M. Filhol, M. Labat, J. Lüning, A. Loulergue, P. Marchand, C. Miron, F. Polack, P. Morin, G. Lambert, V. Malka, A. Rousse, S. Bielawski, C. Szwaj, C. Reynaud, B. Carré, A. Variola, F. Cavalier, A. Stocchi, J. Poole, C. Petit-Jean-Genaz, Proceedings FEL2011, 22-26 Aout 2011, Shengai (CHINA)

104 Seeding schemes on the French FEL project LUNEX5
C. Evain, M. Labat, M.E. Couprie, F. Briquez, A. Loulergue, V. Malka, Proceedings FEL2011, 22-26 Aout 2011, Shengai (CHINA)

103 Developments of capillary discharge for laser plasma accelerators
L.Aranchuk, S. Corde, C. Thaury, K. Ta Phuoc, G. Lambert, C. Rechatin, J. Faure, O. Lundh, E. Benveniste, A. Ben-Ismail, J. Larour, A. Marciniak, A. Stordeur, B. Prithviraj, A. Specka, and V. Malka, Dense Z-Pinches Conference, Biarritz (France), June 5-9 (2011).

102 Capillary discharge for laser beam guiding
L. Arantchuk, C. Rechatin, O. Lundh, J. Faure, V. Malka, proceedings 16th International Symposium on High-Current Electronics (16th SHCE) and 10th International Conference on Modification of Materials with Particle Beams and Plasma Flows (10th CMM), Tomsk (Russia) September 19—24, 2010

101 On the control e-beam parameters with laser plasma accelerators
V. Malka, J. Faure, C. Rechatin, J. Lim, O. Lundh, K. Ta Phuoc, S. Corde, X. Davoine, E. Lefebvre, A. Ben Ismail, A. Specka, A. Lifschitz, SILMI, MPQ Garching, Germany, March 1-9 (2010)

100 Few-femtosecond laser-accelerated electron bunches
O. Lundh (invited talk), J. Lim, C. Rechatin, L. Ammoura, A. Ben-Ismaïl, X. Davoine, G. Gallot, J.-P. Goddet, E. Lefebvre, V. Malka and J. Faure, SILMI, MPQ Garching, Germany, March 1-9 (2010)

99 Cold optical injection producing monoenergetic multiGeV electron bunches
E. Lefebvre, X. Davoine, J. Faure, and V. Malka, SILMI, MPQ Garching, Germany, March 1-9 (2010)

98 Radiation from a laser-plasma accelerated electron beam passing through an undulator
R. Bachelard, F. Briquez, A. Loulergue, M.-E. Couprie, M. Labat, G. De Ninno, J. Faure, K. Ta Phuoc, S. Corde, A. Rousse, O. Lundt, G. Lambert, V. Malka, A. Ben Ismail, proceedings FEL2009 conference, Liverpool, UK.

97 Ultrashort relativistic electron bunches and spatio-temporal radiation biology - art. no. 708002

Gauduel YA, Faure J, Malka V, 2008, Conference on Penetrating Radiation Systems and Applications IX, AUG 13-14, 2008 San Diego, (SPIE), Volume: 7080

96 Injection of electrons into plasma waves by colliding laser pulses into an underdense plasma
Faure J, Rechatin C, Norlin A, Lifshitz A., Malka V., 2007, Conference on Lasers and Electro-Optics/Quantum Electronics and Laser Science Conference, MAY 06-11, 2007 Baltimore, MD (CLEO/QELS 2007), VOLS 1-5 Pages: 2701-2702

95 Medical applications with electron beam generated by laser plasma accelerators.
V.Malka, J. Faure, Y. Glinec, C. Rechatin, T. Fuchs, U. Oelfke, H. Szymanowski, Commercial And Biomedical Applications Of Ultrafast Lasers VIII, Proceedings Of The Society Of Photo-Optical Instrumentation Engineers (Spie), **Volume:** 6881, **Pages:** B8810-B8810 (2008).

94 Femtoradical events in aqueous molecular environments: the tenuous bodeline between direct and indirect radiation damages.
Y. Gauduel, Y. Glinec, V. Malka, Radiation Damage in biomolecular systems, Volume 101, pp 12004 (2008).

93 Gas induced smoothing of laser beam inhomogeneties
D. Batani, R. Dezulian, R. Redaelli, R. Benocci, F. Canova, G. Lucchini, E. Krousky, K. Masek, M. Pfeifer, J. Skala, R. Dudzak, J. Ullschmied, V. Malka, J. Faure; M. Koenig, J. Limpouch, W. Nazarov, IFSA, Kobe, Japan J. Phys. Conf. Ser. 112, 022045 (2008).

92 Fast electron transport and induced heating in aluminium foils
J. J. Santos, A. Debayle, Ph. Nicolai, V. Tikhonchuk, M. Manclossi, D. Batani, A. Guemnie-Tafo, J. Faure, V. Malka, J. J. Honrubia, IFSA, Kobe, Japan, J. Phys. Conf. Ser. 112, 022088 (2008).

91 Laser-accelerated electrons for radiation therapy
Malka, V., Fuchs, T., Oelfke, U., Szymanowski, H., Faure, J., Glinec, Y., Rechatin, C.
Med. Phys. 34 (6): 2562-2562 (2007)

90 Laser-plasma accelerators
V. Malka, A.F. Lifschitz, J. Faure, Y. Glinec, p. 64-70, 12th Advanced Accelerator Concepts Workshop, July 10-15, 2006, Lake Geneva, USA.

89 PIC simulations of proton acceleration with high intensity lasers: the transparency regime, and interaction with underdense targets
E. d'Humières, J. Fuchs, P. Antici, P. Audebert, E. Brambrink, E. Lefebvre, V. Malka, P. Mora, Y. Sentoku., AIP Conference Proceedings 877, pp. 388-394: 12th Advanced Accelerator Concepts Workshop, July 10-15, 2006, Lake Geneva, USA.

88 Proton Acceleration: New Developments in Energy Increase, Focusing and Energy Selection
E. d'Humières, J. Fuchs, P. Antici, P. Audebert, M. Borghesi, E. Brambrink, C. A. Cecchetti, M. Kaluza, E. Lefebvre, V. Malka, M. Manclossi, S. Meyroneinc, P. Mora, H. Pépin, A. Pipahl, L. Romagnani, Y. Sentoku, J. Schreiber, T. Toncian, O. Willi., AIP Conference Proceedings 877, pp. 41-50: 12th Advanced Accelerator Concepts Workshop, July 10-15, 2006, Lake Geneva, USA.

87 PIC simulations of proton acceleration with high intensity lasers: the transparency regime, and interaction with underdense targets
E. d'Humières, J. Fuchs, P. Antici, P. Audebert, E. Brambrink, E. Lefebvre, V. Malka, P. Mora, Y. Sentoku., AIP Conference Proceedings 877, pp. 388-394: 12th Advanced Accelerator Concepts Workshop, July 10-15, 2006, Lake Geneva, USA.

86 Laser sources for proton accelerators
Ferrand, R., Malka, V., Chambaret, J. P., Mourou, G., Tafo, A.
Rad. And Onc. 81: S59-S59 152 Suppl. 1 (2006).

85 Radiotherapy with laser-accelerated electrons: Monte Carlo simulations of dosimetric properties and studies on treatment planning

Thomas Fuchs, Uwe Oelfke, Yannick Glinec, Jérome Faure, Victor Malka

84 Numerical modelling and applications of laser-accelerated ion beams
E. Lefebvre, E. d'Humières, L. Gremillet, S. Fritzler, V. Malka, Computer Physics Communications.

83 Laser-plasma wakefield acceleration: concepts, tests and premises
V. Malka, J. Faure, Y. Glinec, A. Lifschitz, European Particle Accelerator Conference EPAC, Edimburgh, June 26-30 (2006)

82 Review of high-brightness proton and ion acceleration using pulsed lasers
J.Fuchs, P. Audebert, P. Antici, E. Brambrink, E. d'Humières, J.-C. Gauthier, L. Romagnani,T.E. Cowan, A. Kemp, N. Renard-LeGalloudec, H. Ruhl, Y. Sentoku, M. Borghesi, C.A. Cecchetti, O. Willi, T. Toncian, A. Pipahl, P. Mora, E. Lefebvre, I. Barton, J. Kaae, R. Stephens, M. Roth, A. Blazevic, M. Geissel, M. Hegelich, J. Cobble, J.C. Fernández, M. Kaluza, S. Karsch, J. Schreiber, V. Malka, M. Manclossi, S. Meyroneinc, H. Pépin 39th ICFA Advanced Beam Dynamics Workshop on *High Intensity High Brightness Hadron Beams, HB2006*, that was held in Tsukuba City, Japan, from May 29 to June 2, 2006

81 Time resolved analysis of high power laser produced plasma expansion.
A. Aliverdiev, D. Batani, V. Malka, J. Faure, T. Vinci, M. Koenig, A. Benuzzi-Mounaix, R. Dezulian, AIP Conf. Proceedings 827 (2006).

80 Transport of intense laser-produced electron beams in matter
D Batani, M Manclossi, J J Santos, V T Tikhonchuk, J Faure, A Guemnie-Tafo and V. Malka Plasma Phys. Control. Fusion **48** No 12B (December 2006) B211-B220

79 Ultra intense laser produced fast electron propagation and filamentation in insulators vs conductos by optical emission diagnostics.
M. Manclossi, J. J. Santos, D. Batani, J. Faure, V. Tikhonchuk, A. Debayle, and V. Malka, AIP Conf. Proceedings 827 (2006).

78 Production and applications of quasi mono energetic electron bunches in Laser-plasma accelerator
Glinec, V. Malka, J. Faure, A.F. Lifschitz, Superstrong Fields in Plasma, AIP Conf. Proceedings 827 (2006).

77 Laser-driven proton acceleration: scaling laws and new paths towards energy increase
J. Fuchs, P. Antici, E. d'Humières, E. Lefebvre, M. Borghesi, E. Brambrink, C.A. Cecchetti, M. Kaluza, V. Malka, M. Manclossi, S. Meyroneinc, P. Mora, J. Schreiber, T. Toncian, H. Pépin, P. Audebert, Superstrong Fields in Plasma, AIP Conf. Proceedings 827 (2006).

76 Measurements of Magnetic fields generated in underdense plasmas by intense lasers
Z. Najmudin, B. R. Walton, S. P. D. Mangles, A. E. Dangor, S. Fritzler, V. Malka, J. Faure, M. Tatarakis, and K. Krushelnick, Superstrong Fields in Plasma, AIP Conf. Proceedings 827 (2006).

75 Simulation of Dosimetric Properties of Very high Energy Laser Accelerated Electron Beams
T. Fuchs, H. Szymanowski, Y. Glinec, J. Faure, V.Malka, U. Oelke, Medical Physics 32, 6 june (2005).

74 Energetic electrons generation in high intensity and ultra short laser pulse interactions with thin foil or low density targets.
G.Malka, M.M.Aléonard, G.Claverie, M. Gerbaux, F. Hannachi, J.N.Scheurer, M. Tarisien, S.Fritzler, J. Faure, Y. Glinec, V.Malka, M. Manclossi, L. Notebert, J. Santos, A. Tafo, N. Cochet, E. Lefebvre, V. Meot, P. Morel, V.Tikhonchuk , Proceedings of SPIE, 5918, 59180Y (2005).

73 Time resolved Analysis of High Power Laser Produced Plasmas Expansion in Vacuum
A. Aliverdiev, D. Batani, V. Malka, T. Vinci, M. Koenig, A. Benuzzi-Mounaix, and R. Dezulian, AIP Conf. Proceedings, 762, 419 (2005).

72 Propagation In Matter Of Currents Of Relativistic Electrons Beyond The Alfven Limit, Produced In Ultra-High-Intensity Short-Pulse Laser-Matter Interactions
D. Batani, S. D. Baton, M. Manclossi, F. Amiranoff, M. Koenig, J. J. Santos, E. Martinolli, L. Gremillet, H. Popescu,

A. Antonicci, C. Rousseaux, M. Rabec Le Gloahec, T. Hall, V. Malka, T. E. Cowan, R. Stephens, M. Key, J. King, and R. Freeman, AIP Conf. Proceedings, Dec 1 740, 1, 446-457 (2004).

71 Development of a compact single shot electron spectrometer
Y. Glinec, J. Faure and V. Malka.
November 2005: Fourth PHIN Collaboration Meeting, CERN, Geneva.

70 Overview of laser particle acceleration in an underdense plasmas
V. Malka.
AIP Conf. Proc. 611, 303 (2002)

69 Design of a new compact electron spectrometer
Y. Glinec, J. Faure and V. Malka.
April 2005: LASERLAB Workshop, CLF Rutherford Appleton Laboratory, Didcot, England.

68 Production of quasi-monoenergetic electron bunches in laser-plasma based accelerators
Y. Glinec, J. Faure, J. J. Santos, F. Ewald, A. Pukhov, S. Kiselev, S. Gordienko, T. Hosokai, V. Malka
Sept 19-23 2005: Superstrong Fields in Plasmas, Varenna, Italy

67 Temporalcontrast enhancedto 10-10 for Petawatt class femtosecond lasers
F. Canova, V. Malka, O. Albert, A. Jullien, G. Gériaux, J.-P. Chambaret, M. Minkowski, S. M. Saltiel; Joint Conference on Ultrafast Optics and Applications of High Field and Short Wavelength Sources XI, pp.233-235, Nara, Sept. 25-30 (2005);

66 Laser plasma accelerators: status and perspectives
V. Malka, J. Faure, Y. Glinec, A. Lifschitz; Joint Conference on Ultrafast Optics and Applications of High Field and Short Wavelength Sources XI, pp.161-163, Nara, Sept. 25-30 (2005);

65 Electron and photon production from relativistic laser-plasma interactions
E. Lefebvre, N. Cochet, S. Fritzler, V. Malka, M.-M. Aleonard, J.-F. Chemin, S. Darbon, L. Disdier, J. Faure, A. Fedotoff, O. Landoas, G. Malka, V. Meot, P. Morel, M. R. Le Gloahec, A. Rouyer, C. Rubbelynck, V. Tikhonchuk, R. Wrobel, P. Audebert, C. Rousseaux; Nuclear Fusion vol. 43, n°7, p.629-633, July 2003

64 High charge (0.5 nC) monoenergetic 170 +/-20 MeV electrons beam generated by 30 fs laser pulses
Y. Glinec, J. Faure, V. Malka; AAC Conference Proceedings, Stony Brook June 21-25, 2004,

63 High charge (0.5 nC) monoenergetic 170 +/-20 MeV electrons beam generated by 30 fs laser pulses
Y. Glinec, J. Faure, V. Malka; AIP Conference Proceedings, dec 7, 737, 1 (2004).

62 Laser Wakefield Acceleration of 170 MeV Quasi-monoenergetic Electron Beams
J. Faure, Y. Glinec, V. Malka, A. Pukhov, S. Kiselev, S. Gordienko. CLEO 2005 Proceeding.

61 Laser Wakefield Acceleration of High-energy quasi-monoenergetic Electron Beams
J. Faure, Y. Glinec, V. Malka, A. Pukhov, S. Kiselev, S. Gordienko. ANAD 2004 Proceedings from the 2004 CARE meeting, Hambourg.

60 Characterization of Multi-Temperature Fast Electron Beams on UHI laser-solid interactions by Target Rear Side Self-Emission Diagnostics
J. J. Santos, M. Manclossi, A. Guemnie-Tafo, J. Faure, V. Malka, F. Burgy, T. Lefrou, J.-P. Rousseau, D. Batani; Proceedings of the EPS conference in Taragonna 2005.

59 Laser wakefield acceleration of electron bunches in the mildly nonlinear regime
A. Lifschitz, V. Malka, J. Faure and P. Mora; Proceedings of the EPS conference in Taragonna 2005.

58 Characterization of Fast Electron beams in UHI Laser-Solid Interaction by Optical Emission Diagnostics
M. Manclossi, J.J. Santos, A. Guemnie-Tafo, J. Faure, D. Batani, V. Malka, V. Thikonchuk, A. Debayle; Proceedings of the 4th International Conference on Inertial Fusion Sciences and Applications, September 2005, Biarritz, France

57 Electrons beam produced by ultra short laser pulses in the relativistic regime
V. Malka, J. Faure, Y. Glinec, J.J. Santos, T. Hosokai, CARE-Note-2004-002-ELAN.

56 Electrons and protons beam produced by ultra short laser pulses
V. Malka, J. Faure, S. Fritzler, and Y. Glinec, Laser and Nuclei, LNP 694, 81-90, Ed Springer (2006).

55 Propagation in matter of currents of relativistic electrons beyond the Alfven limit, produced in Ultra high Intensity Short Pulse Laser Matter Interaction.
D. Batani, S. D. Baton, M. Manclossi, J.J. Santos, F. Amiranoff, M. Koenig, E. Martinolli, A. Antonicci, C. Rousseaux, M. Rabec Le Gloahec, T. Hall, T. E. Cowan, R. Stephens, M. Key, J. King, R. Freeman. 22 th Summer Schoool and International Symposium on the Physics of Ionized Gases, TARA, Serbia august 23-27 (2004).

54 High charge (0.5 nC) monoenergetic 170 +/-20 MeV electrons beam generated by 30 fs laser pulses.
Y. Glinec, J. Faure, and V. Malka, 11 th Advanced accelerator conference, Stoony Brook June 21-25, 2004

53 Ion Acceleration with high intensity lasers : PIC simulations and application to isotope production.
E. d'Humières, E. Lefebvre, V. Malka, S. Fritzler, in "Inertial Fusion Sciences and Applications 2003", Edited by B. A. Hammel, D.D. Meyerhofer, J. Meyer-ter-Vehn and H. Azechi, American Nuclear Society, pp 369-372 (2004).

52 X-ray emission of Xenon gas jet plasmas diagnosed by Thomson scattering
V. Nigels-Silvert, C. Chenais-Popovics, O. Peyrusse, S. Gary, F. Girard, V. Malka, M. Rabec-Le Gloahec, J.C. Gauthier.
European Physics Society London, June 2004

51 Optimizing photo-nuclear reactions with high intensity lasers
G. Malka, M.M. Aléonard, J.F. Chemin, G. Claverie, M.R. Harston, V. Tikhonchuk, J.N. Scheurer, S. Fritzler, V. Malka, P. Balcou, G. Grillon, S. Moustaizis, L. Notebaert, M. Pittman, E. Lefebvre, Proceeding of SPIE-2001, 29 juil-3 aout 2001, San Diego, CA (USA).

50 Forced laser wakefield acceleration: production of a low emittance electron beam up to 200 MeV with a table top laser.
E. Lefebvre, S. Fritzler, V. Malka, in "Inertial Fusion Sciences and Applications 2003", Edited by B. A. Hammel, D.D. Meyerhofer, J. Meyer-ter-Vehn and H. Azechi, American Nuclear Society, pp 369-372 (2004).

49 X-ray spectroscopic measurements of laser-produced gas-jet plasmas suported by Thomson scattering diagnostics
J.-C. Gauthier, C. Chenais-Popovics, V. Malka, S. Gary, M. Rabec-Le Gloahec, O. Peyrusse, I. Matsushima, 2nd IFSA2001 Conference, Kyoto, 9-14 Septembre 2001
"Inertial Fusion Sciences and Applications 2001", édité par C. Labaune, W. J. Hogan, K.A. Tanaka, Elsevier, Paris, p. 963-966 (2002)

48 X-ray spectroscopic measurements of laser-produced gas-jet plasmas diagnosed by Thomson scattering
J.-C. Gauthier, C. Chenais-Popovics, V. Malka, S. Gary, M. Rabec-Le Gloahec, O. Peyrusse, I. Matsushima, C. Bauche-Arnoult, A. Bachelier, J. Bauche 13th APS Topical Conference on Atomic Processes in Plasmas, Gatlinburg, 22-25 Avril 2002

47 Spectra of xenon and krypton in the range 0.5-1 nm
C. Chenais-Popovics, V. Nagels, V. Malka, J.F. Wyart, A. Bachelier, J.C. Gauthier,
13th APS Topical Conference on Atomic Processes in Plasmas, Gatlinburg, 22-25 Avril 2002

46 Electron and photon production from relativistic laser-plasm interactions
E. Lefebvre, M.-M. Aleonard, J.-F. Chemin, N. Cochet, S. Darbon, L. Disdier, J. Faure, A. Fedotoff, S. Fritzler, O. Landoas, G. Malka, V. Malka, V. Meot, P. Morel, M. Rabec Le Gloahec, A. Rouyer, C. Rousseaux, Ch. Rubbelynck, V. Tikhonchuk, R. Wrobel, P. Audebert Proceedings of Lyon's Fusion Energy Conference (2002).

45 Relativistic electron generation in interactions of a 30 TW laser pulse with a thin foil target
G. Malka, M.M. Aléonard, J.F. Chemin, G. Claverie, M.R. Harston, J.N. Scheurer, V. Tikhonchuk, S. Fritzler, V.

Malka, P. Balcou, G. Grillon, S. Moustaizis, L. Notebaert, E. Lefebvre and N. Cochet, **XXVII ECLIM**, Moscow Russie (October 2002).

45 Multi-MeV electrons produced by a femtosecond laser pulse propagating in an exploding-foil plasma.
D. Giuletti, M. Galimberti, A. Giuletti, L. A. Gizzi, R. Numico, P. Tomassini, M. Borghesi, V. Malka, S. Fritzler, M. Pittman, workshop on 2nd generation laser and plasma accelerators (2001).

44 New radiative shock experiment :
S. Leygnac, S. Bouquet, C. Stehle, , A. Benuzzi-Mounaix, L. Boireau, J.-P. Chièze, N. Grandjouan, G. Huser, M. Koenig, V. Malka, H. Merdji, C. Michaut, F. Thais, and T. Vinci Société française d'astronomie et d'astrophysique (juin 2002).

43 Electron acceleration beyond 200 MeV in underdense plasmas using table top laser systems
S. Fritzler, V. Malka, E. Lebfevre, MM Aleonard, F. Burgy, J.P. Chambaret, JF Chemin, K. Krushelnivk, G. Malka, SPD Mangles, JP Rousseau, JN Scheurer, B. Walton, AE Dangor, proceedings Advanced accelerator conference AAC, AIP Conf. Proc. **611,** 303 (2002).

42 Radiative shock Experiment using high power laser.
M. Koeing, A. Benuzzi-Mounaix, N. Grandjouan, V. Malka, S. Bouquet, X. Fleury, B. Marchet, Ch. Stehlé, J. P. Chièze, D. Batani, E. Henry, T. Hall, AIP Conf. Proc. 620, 1 (2002)

41 Electron acceleration mechanism in the interaction of ultrashort lasers with underdense plasmas: experiments and simulations
J. Faure, E. Lefebvre, V. Malka, J. R. Marques, F. Amiranoff, A. Solodov, and P. Mora, proceedings Advanced accelerator conference AIP Conf. Proc. **647**, 717 (2002).

40 Studies on electron acceleration in plasmas at Rutherford Appleton Laboratories
Z Najmudin, K Krushelnick, A E Dangor, B Walton, A Gopal, U Wagner, S Fritzler, V Malka, R. Clarke, 2nd International Conference on Fusion Sciences and Applications, Kyoto, Japan (Sept 2001)

39 Short pulse laser beatwave experiments using the VULCAN laser facility
B R Walton, Z Najmudin, M-S Wei, C Marle, K Krushelnick, A E Dangor, R J Clarke, M J Poulter, C Hernandez-Gomez, S Hawkes, D Neely, C N Danson, J L Collier, S Fritzler, V Malka
43rd Annual Meeting of the APS Division of Plasma Physics, Los Angeles, USA (Nov 2001)

38 Nuclear physics with powerful laser pulses
G. Malka, M.M. Aleaonard, J. F. Chemin, G. Calverie, M. R. Harston, J. N. Scheurer, V. Tickonchuck, S. Fritzler, V. Malka, P. Balcou, G. Grillon, S. Moustaizis, E. Lefebvre, V. Meot, proceedings Kyoto IFSA (2001)

37 Optimizing photo-nuclear reactions with the 2 J, 30 fs LOA laser
G. Malka, M.M. Aleaonard, J. F. Chemin, G. Calverie, J. N. Scheurer, V. Tickonchuck, S. Fritzler, V. Malka, P. Balcou, G. Grillon, S. Moustaizis, E. Lefebvre, San Diego, SPIE (august 2001)

36 The Radiative Shock: Theory, Laser Experiments and Interpretation
X. Fleury, S. Bouquet, C. Stehle, M. Koenig, P. Barroso, D. Batani, A. Benuzzi-Mounaix, B. Cathala, J.-P. Chièze, N. Grandjouan, J. Grenier, T. Hall, E. Henry, J.-P. J Lafon, S. Leygnac, V. Malka, B. Marchet, H. Merdji, C. Michaut, L. Polès and F. Thais, IFSA 02, Kyoto, sept 2001

35 Overview of laser particle acceleration in an underdense plasmas
V. Malka, SPIE 2001

34 Radiative shoch experiment using high power laser
M. Koenig, A. Benuzzi-Mounaix, N. Grandjouan, V. Malka, S. Bouquet, X. Fleury, B. Marchet, Ch. Stehlé, S. Leygnac, C. Michaut, J.P. Chièze, D. Batani, E. Henry, T. Hall APS (2001)

33 The correlation of Raman side-scatter with relativistic self-focusing and implications for the generation of relativistic electrons
B Dangor, Z Najmudin, K Krushelnick E Clark, M Santala, M Tatarakis, C Danson, D Neely J Faure, V Malka

42nd Annual Meeting of the Division of Plasma Physics of The American Physical society and the 10th International Congress on Plasma Physics, Quebec City, Canada (Oct 2000)

32 Investigating the inverse Faraday effect with an intense short pulse laser
Z Najmudin, M Tatarakis, K Krushelnick, E Clark, M Santala, B Dangor, R Clarke, D Neely, J Faure, V Malka
42nd Annual Meeting of the Division of Plasma Physics of The American Physical society and the 10th International Congress on Plasma Physics, Quebec City, Canada (Oct 2000)

31 Status and overview of research programs at LULI 2000
V. Malka, F. Amiranoff, C. Chenais-Popovic, J-C. Gauthier, C. Labaune, E. Leboucher-Dalimier, C. Sauteret, and A. Migus, XXVI ECLIM Praha (2000), Proceedins of SPIE volume 4424 pp70-77.

30 Electron source produced in the self modulated laser wakefield regime
V. Malka, J. Faure, J. R. Marquès, F. Amiranoff. P. Rousseau, S. Ranc, J. P. Chambaret, Proceedings of SPIE volume 4424 pp446-451.

29 Laser wakefield acceleration of electrons at Ecole Polytechnique F. Amiranoff, S. Baton, D. Bernard, B. Cros, D. Descamps, F. Dorchies, F. Jacquet, V. Malka, J.-R. MarquËs, G. Matthieussent, Ph. MinÈ, A. Modena, P. Mora, J. Morillo, Z. Najmudin CP472 Advanced Accelerator Concept: eigth worshop, AIP Conf. 472, 303 (1999);

28 Laser wakefield acceleration of electrons at Ecole Polytechnique
F. Amiranoff, S. Baton, D. Bernard, B. Cros, D. Descamps, F. Dorchies, F. Jacquet, V. Malka, G. Matthieussent, J. R. Marquès, P. Mine, A. Modena, P. Mora, J. Morillo, Z. Najmudin.. CP472, Advanced accelerator concepts: Eight worshop, Edited by W. Lawson, C. Bellamy nad D. Brosius. P303 (1999).

27 Multi-MeV ion production from high intensity laser interactions with underdense plasmas
K Krushelnick, E L Clark, Z Najmudin, M Salvati, M I K Santala, M Tatarakis, A E Dangor, V Malka, D Neely, R M Allott, C N Danson
International conference on plasma accelerators, Crete, Greece (May 1999)

26 Hosing, sausaging, filamentation and sidescatter of a high-intensity short-pulse laser in an under-dense plasma
Z Najmudin, K Krushelnick, E L Clark, M Salvati, M I K Santala, M Tatarakis, A E Dangor, V Malka, C N Danson, R M Allott, D Neely
1st international conference IFSA conference proceedings 1 409-414 (1999)

25 Inverse Faraday effect and propagation instabilities in the interaction of highly underdense plasmas
Z Najmudin, E L Clark, A E Dangor, C N Danson, K Krushelnick, V Malka, D Neely, M Salvati, M Tatarakis
Ultra intense laser interactions and applications - 1, Elounda, Greece (May 1999)

24 Measurements of forward Raman scattering and electron acceleration from high intensity plasma interactions at 527nm
Z Najmudin, R M Allott, F Amiranoff, E L Clark, C N Danson, D Gordon, K Krushelnick, G Malka, V Malka, D Neely, M Salvati, M I K Santala, M Tatarakis, A E Dangor
International conference on plasma accelerators, Crete, Greece (May 1999)

23 Propagation instabilities in the interaction of highly underdense plasmas
Z Najmudin, E L Clark, A E Dangor, C N Danson, K Krushelnick, V Malka, D Neely, M Salvati, M Tatarakis
1st international conference on inertial fusion sciences and applications, Bordeaux, France (September 1999)

22 Gas jet electron acceleration using a 527nm frequency doubled CPA laser pulse
D Neely, R M Allott, F Amiranoff, E L Clark, R J Clarke, J L Collier, A E Dangor, C N Danson, C B Edwards, D Gordon, C Hernandez-Gomez, M H R Hutchinson, K Krushelnick, G Malka, V Malka, A Modena, Z Najmudin, M Notley, D A Pepler, M Randelson, J Springall
IFSA conference proceedings 1 1163-1170 (1999)

21 Multi-terawatt frequency doubling of picosecond pulses for plasma interactions

D Neely, C N Danson, R M Allott, F Amiranoff, E L Clark, C E Clayton, J L Collier, A E Dangor, A Djaoui, C B Edwards, P S Flintoff, D Gordon, P Hatton, M Harman, M H Hutchinson, K Krushelnick, G Malka, V Malka, A Modena, Z Najmudin, D A Pepler, I N Ross
Third international conference on solid state lasers for application to inertial confinement fusion, Ed W H Lowdermilk, SPIE 3492 414-423 (1999)

20 Magnetic fields generated during high intensity laser plasma interaction
M Tatarakis, F Beg, E L Clark, K Krushelnick, A C Machecek, V Malka, Z Najmudin, D Neely, P A Norreys, M Salvati, M I K Santala, I Watts, M Zepf, B Wyborn
1st international conference on inertial fusion sciences and applications, Bordeaux, France (September 1999)

19 Powerful frequency doubling of picosecond pulses for plasma interactions
D. Neely, C. N. Danson, R. Allott, F. Amiranoff, E. L. Clark, C. Clayton, J. L. Collier, A. E. Dangor, A. Djaoui, C. B. Edwards, P. Flintoff, D. Gordon, P. Hatton, M. Harman, M. H. R. Hutchinson, K. Krushelnick, G. Malka, V. Malka, A. Modena, Z. Najmudin, D. A Pepler, I. N. Ross, M. Salvati, M. Santala, M. Tatarakis, M. Trentelman, and T. Winstone, SPIE 3492, 414-423 (1998).

18 Multi terawatt frequency doubling of picosecond pulses for plasma interactions
D Neely, C N Danson, R Allott, J L Collier, C B Edwards, P Flintoff, M H R Hutchinson, D A Pepler, I N Ross, M Trentelman, T Winstone, Z Majmudin, V Malka, F Amiranoff, E L Clark, A E Dangor, D Gordon, K Krushelnick, G Malka, A Modena, M Salvati, M Santala, M Tatarakis
25th ECLIM, Formia, Italy (May 1998)

17 High intensity laser interactions with a gas jet at 527 nm
M.Salvati, R Allott, F Amiranoff, E L Clark, A E Dangor, C N Danson, P Flintoff, D Gordon, K Krushelnick, V Malka, G Malka, A Modena, Z Najmudin, D Neely, M Santala, M Tatarakis
25th ECLIM, Formia, Italy (May 1998)

16 High yield generation of synchronized picosecond monochromatic pulses using frequency femtosecond chirped pulses.
A. C. L. Boscheron, F. Raoult, C. Sauteret, A. Modena, V. Malka, and F. Dorchies, A. Migus. Conference on Laser and Electro-optics, European Quantum Electronics Conference, Glasgow, Ecosse 1998.

15 Laser wakefield acceleration of electrons at Ecole Polytechnique.
F. Amiranoff, S. Baton, D. Bernard, B. Cros, D. Descamps, F. Dorchies, F. Jacquet, V. Malka, G. Matthieussent, J. R. Marquès, P. Mine, A. Modena, P. Mora, J. Morillo, Z. Najmudin. 8th Worshop on Advanced Accelerator Concepts, Baltimore, MD USA (juin 1998).

14 Observation of laser wakefield acceleration of electrons.
F. Dorchies, F. Amiranoff, V. Malka, J. R. Marques, A. Modena, D. Bernard, F. Jacquet, Ph. Miné, B. Cros, G. Matthieussent, P. Mora, A. Solodov, J. Morillo, Z. Najmudin, Proc. ECLIM Formio (Italie) 1998.

13 High power laser at 0.53 μm for plasma interactions
D. Neely, C. N. Danson, R. Allott, F. Amiranoff, E. L. Clark, C. Clayton, J. L. Collier, A. E. Dangor, A. Djaoui, C. B. Edwards, P. Flintoff, D. Gordon, P. Hatton, M. Harman, M. H. R. Hutchinson, K. Krushelnick, G. Malka, V. Malka, A. Modena, Z. Najmudin, D. A Pepler, I. N. Ross, M. Salvati, M. Santala, M. Tatarakis, M. Trentelman, and T. Winstone, Proc. ECLIM 1998.

12 Multi-terawatt frequency doubling of picosecond pulses for plasma interactions
D. Neely, C. N. Danson, R. Allott, F. Amiranoff, E. L. Clark, C. Clayton, J. L. Collier, A. E. Dangor, A. Djaoui, C. B. Edwards, P. Flintoff, D. Gordon, P. Hatton, M. Harman, M. H. R. Hutchinson, K. Krushelnick, G. Malka, V. Malka, A. Modena, Z. Najmudin, D. A Pepler, I. N. Ross, M. Salvati, M. Santala, M. Tatarakis, M. Trentelman, and T. Winstone, Proc. SSLA 1998.

11 The Observation of Self-Channeling of a Relativistically-Intense Laser Pulse in an Underdense Plasma.
E. Clayton, P. Muggli, D. Gordon, K-C. Tzeng, W. B. Mori, C. Joshi, A. Modena, Z. Najmudin, A. E. Dangor, V. Malka, and D. Neely, LEOS '97 Proceedings, San Francisco, CA, November 10-13, 1997.

10 A brodband electron spectrometer and electron detector for laser accelerator experiments.
C. E. Clayton, K. A. Marsh, C. Joshi, A. E. Dangor, A. Modena, Z. Najmudin, V. Malka, Proc. of the 1995 Particle Accelerator Conference, May 1-5, Dallas, Texas.

9 Ionisation et émission X d'un jet de gaz pulsé d'Argon irradié par un laser femtoseconde.
C. Stenz, F. Blasco, R. Brückner, F. Amiranoff, P. Audebert, E. De Wispelaere, J. P. Geindre, J. C. Gauthier, V. Malka, A. Dos Santos, G. Rey, A. Mysyrowicz, et A. Antonetti. Annales de physique, Colloque C1, supplément n°5, vol. 19, octobre 1995.

8 Femtosecond laser interaction with high-density gas jet.
C. Stenz, R. Brückner, F. Blasco, F. Amiranoff, V. Malka, E. De Wispelaere, R. Bonadio, P. Audebert, J. P. Geindre, J. C. Gauthier, A. Dos Santos, G. Rey, A. Mysyrowicz, et A. Antonetti. High fileds interactions and short wavelength generation, 1994 Technical digest series, volume 16. August 22-25, 1994, St Malo, France.

7 Non-linear interactions in laser plasmas.
F. Amiranoff, V. Malka, D. Batani. National Workshop on Nonlinear Dynamics. Conference Proceedings (1994), Vol. 48, pp.119-126.

6 Experimental investigation of interaction processes and hydrodynamic efficiencies in laser driven implosions.
S. D. Baton, E. Fabre, M. Koenig, T. Jalinaud, C. Labaune, V. Malka, A. Michard, D. Pesme, H. A. Baldis, D. Batani, P. Fews, IAEA Proceedings, Vol 3, 179-184 (1992).

5 Hydrodynamic efficiency as determined from experiments at 0.26 μm.
M. Koenig, E. Fabre, V. Malka, P. Hammerling, A. Michard, J. M. Boudenne, P. Fews, S.P.I.E., Vol. 1502, p 338-342, 1991.

4 Time resolved XUV imaging of the rear side of laser illuminated thin foils.
R. Benattar, J. Godart, V. Malka, Proc. SPIE, Vol. 831, San Diego, California, 19-21 août 1987.

3 Time resolved backside emission in the X-UV range of laser illuminated thin foils.
R. Benattar et V. Malka, Laser Interaction with Matter 1989, World Scientific.

2 Soft X-ray Imaging of laser produced plasma.
R. Benattar, V. Malka, Proc. SPIE., Vol. 1140, Palais des Congrès, 24-28 Avril 1989.

1 X-ray laser plasma source for calibration.
R. Benattar, V. Malka & A. Sezen, Proc. SPIE, Vol. 1140, Palais des Congrès, 24-28 Avril 1989.

Communications dans des Conférences Internationales (orale et/ou poster) /Communication in International Conferences (talks and or posters):

180 Faraday effect using high order harmonics for ultrafast demagnetization applications (talk)
C. Alves, G. Lambert, B. Vodungbo, E. Jal, M. Hehn, G. Malinowski, V. Malka and J. Luning, CLEO/Europe - EQEC 2017, Munich (Germany), 25 - 29 June 2017

179 Demonstration of the Faraday effect using high order harmonics to investigate ultrafast magnetic dynamics (talk)
C. Alves, G. Lambert, B. Vodungbo, E. Jal, M. Hehn, G. Malinowski, V. Malka and J. L□ning, ATTO2018, Xi'an (China), 2 - 7 July 2017

178 Stable, polarized betatron raditation: x-ray absorption spectroscopy in WDM unveiling ultrafast electron heating (talk)
B. Mahieu, A. Doepp, A. Lifschitz, A. Doche, C. Thaury, S. Corde, J. Gautier, E. Guillaume, V. Malka, A. Rousse, N. Jourdain, L. Lecherbourg, F. Dorchies, K. Ta Phuoc, SPIE Optics + Optoelectronics, Relativistic Plasma Waves and Particle Beams as Coherent and Incoherent Radiation Sources II (Prague, 27 avril 2017)

177 Rayonnement X femtoseconde polarisé issu de l'interaction laser-plasma : application en spectroscopie d'états hors-équilibre (talk)
B. Mahieu, A. Doepp, A. Lifschitz, A. Doche, C. Thaury, S. Corde, J. Gautier, E. Guillaume, V. Malka, A. Rousse, N. Jourdain, L. Lecherbourg, F. Dorchies, K. Ta Phuoc, Forum ILP Laser & Plasmas (Aussois, 16 mars 2017)

176 Automatic tape drive for high-repetition laser-plasma ion acceleration (poster)
Dan Levy, Thomas Lavergne, Olivier Delmas, Alessandro Flacco, and V. Malka, TARG3: 3rd Targetry for High Repetition Rate Laser-Driven Sources, Salamanca, Spain, 21-23 June 2017.

175 Numerical Studies of Density Transition Injection in Laser Wakefield Acceleration (poster)
F. Massimo, A. F. Lifschitz, C. Thaury, V. Malka, poster at Forum ILP (12-17 March 2017)

174 LWFA Simulations at GeV-Energy on Curie (talk)
F. Massimo, A. F. Lifschitz, V. Malka, oral talk for Individual Work Packages 2 and 6-11 meetings at 1st EuPRAXIA Collaborative Week (19-23 June 2017)

173 Developments of harmonic source in gas for applications: FEL seeding and magnetism studies (talk)
C. Alves, G. Lambert, B. Vodungbo, J. L□ning, Seminary, Laboratoire d'OptiqueAppliquée (France), 4 October 2016

172 Demonstration of Faraday rotation using high order harmonics for ultrafast demagnetization applications (talk)
C. Alves, G. Lambert, B. Vodungbo, E. Jal, G. Malinowski, V. Malka and J. L□ning, UVX conference, Chinon (France), 11 - 14 October 2016

171 Numerical methods for FEL oriented - plasma accelerators (talk)
F. Massimo, A. F. Lifschitz, V. Malka, oral talk at Erice School-Workshop Trends in Free Electron Laser Physics (17-23 May 2016)

170 Generation of stable polarized X-rays from a laser-plasma accelerator for probing femtosecond dynamics in matter (invited talk)
B. Mahieu, A. Doepp, A. Lifschitz, A. Doche, C. Thaury, S. Corde, J. Gautier, E. Guillaume, V. Malka, A. Rousse, N. Jourdain, L. Lecherbourg, F. Dorchies, K. Ta Phuoc, EMN meeting on Ultrafast (Melbourne, 12 octobre 2016)

169 Manipulating Relativistic Electrons with Lasers (talk)
V. Malka, ICUIL, Montebello, Canada, September 11-16 (2016)

168 Complete polarimetry of an even low-order harmonic (4H) for FEL seeding. Perspectives for magnetism studies (poster)
C. Alves, G. Lambert, B. Vodungbo, B. Mahieu, J. Gautier, J. Luning and V. Malka, ICXRL conference, Nara, Japan, 22- 27 May 2016

167 Complete polarimetry of an even low-order harmonic (4H) for FEL seeding. Perspectives for magnetism studies (poster)
C. Alves, G. Lambert, B. Vodungbo, B. Mahieu, J. Gautier, J. Luning and V. Malka, Journée de l'école doctorale 388, Paris, France, 31 March 2016

166 Experiment preparation towards a demonstration of laser plasma based free electron laser amplification (orale)
A. Loulergue et al., Research with Extreme Light: Entering New Frontiers with PW Class Lasers Conference; Prague April 13-16 (2015)

165 Stabilization of laser-driven accelerators and scaling to higher energies (orale)
Research with Extreme Light: Entering New Frontiers with PW Class Lasers Conference; Prague April 13-16 (2015)

164 Control of the ellipticity of high harmonics generated in a two-colour scheme
B. Mahieu, G. De Ninno, D. Gauthier, C. Spezzani, A. Andreev, S. Stremoukhov, M. Fajardo, C. Hauri, P. Salières, V. Malka, B. Vodungbo, P. Zeitoun, G. Lambert, Atto Conference, 2015

163 Progress of the LUNEX5 Project
M. E. Couprie, C. Benabderrahmane, P. Berteaud, C. Bourassin-Bouchet, F. Bouvet, L. Cassinari, L. Chapuis, M. Diop, J. Daillant, M. El Ajjouri, C. Herbeaux, N. Hubert, M. Labat, P. Lebasque, A. Lestrade, A. Loulergue, P. Marchand, J. L. Marlats, C. Miron, P. Morin, A. Nadji, F. Polack, F. Ribeiro, J. P. Ricaud, P. Roy, K. Tavakoli, M. Valléau, D. Zerbib, S. Bielawski, C. Evain, E. Roussel, C. Szwaj, G. Lambert, V. Malka, R. Lehe, A. Rousse, C. Thaury, G. Devanz, C. Madec, A. Mosnier, D. Garzella, B. Carré, N. Delerue, X. Davoine, A. Dubois, J. Lüning, International Particle Accelerators Conference IPAC 2015

162 Progrès récents dans le transport de faisceau d'électrons permettant d'envisager l'émission cohérente à partir d'accélération plasma
A. Loulergue, M. E. Couprie, M. Labat, C. Benabderrahmane, V. Malka, C Evain, Conference UVX 2014

161 Recent advances on Laser-Plasma electron acceleration
A. Lifschitz (invité), International Congress on Plasma Physics, 15-19 September (2014).

160 Optical and plasma wigglers for compact femtosecond X-ray sources
I.A. Andriyash (invité), 7éme Forum de la Fédération Lasers et Plasmas (Forum ILP), Orcières, France, 2-7 février 2014

159 Femtosecond pulse trains of polychromatic inverse Compton -rays from designer electron beams produced by laser-plasma acceleration in plasma channels
S.Y. Kalmykov, I.A. Ghebregziabher, X. Davoine, R. Lehe, A.F. Lifschitz, V. Malka, B.A. Shadwick, Proceedings of the Advanced Accelerator Concepts workshop, July 13-18 2014, Stanford

158 Accordion effect revisited: generation of comb-like electron beams in plasma channels
S.Y. Kalmykov, X. Davoine, R. Lehe, A.F. Lifschitz, B.A. Shadwick, Proceedings of the Advanced Accelerator Concepts workshop, July 13-18 2014, Stanford

157 Numerical study of an FEL based on LWFA electrons a laser-plasma wiggler
R. Lehe, X. Davoine, G. Lambert, A.F. Lifschitz, J.-M. Rax, V. Malka, Proceedings of the Free Electron Laser conference, August 25-31 2012, Nara, Japan

156 Laser-driven accelerator for MeV neutral particules
F. Mollica, poster, Forum ILP, Orcières, France 2-7 February 2014

155 Laser-driven ion accelerator for protontherapy
F. Mollica, poster, Rencontres des Jeunes Physiciens, Paris, 4 November 2014

154 Angular momentum evolution in a laser-plasma accelerator
E. Guillaume (poster), Forum Institut Laser Plasma (ILP2014), Orcières, France, February 02-07 (2014).

153 Avancement du projet LUNEX5
M. E. Couprie, C. Benabderrahmane, P. Berteaud, C. Bourassin-Bouchet, F. Bouvet, L. Cassinari, L. Chapuis, M. Diop, J. Daillant, M. El Ajjouri, C. Herbeaux, N. Hubert, M. Labat, P. Lebasque, A. Lestrade, A. Loulergue, P. Marchand, J. L. Marlats, C. Miron, P. Morin, A. Nadji, F. Polack, F. Ribeiro, J. P. Ricaud, P. Roy, T. Tanikawa, K. Tavakoli, M. Valléau, D. Zerbib, S. Bielawski, C. Evain, C. Szwaj, G. Lambert, A. Lifschitz, V. Malka, R. Lehe, A. Rousse, C. Thaury, G. Devanz, C. Madec, A. Mosnier, D. Garzella, B. Carré, N. Delerue, X. Davoine, A. Dubois, J. Lüning, Conference UVX 2014

152 X-Rays Generation From a Laser-plasma Electrostatic Wiggler, Created From a Nanostructured Solid Target
I.A. Andriyash, R. Lehe, A. Liftshitz, V. Malka, C. Thaury, 35th International Free Electron Laser Conference, Manhattan, USA, August 26-30 (2013)

151 Polarization Tunability in Two-color High-harmonic Generation Sources
G. De Ninno, D. Gauthier, A.V. Andreev, G. Lambert, V. Malka, B. Vodungbo, P. Zeitoun, B. Mahieu, C. Spezzani, S.Yu. Stremoukhov, 35th International Free Electron Laser Conference, Manhattan, USA, August 26-30 (2013)

150 Optical Transverse Injection in Laser-plasma Accelerators
R. Lehe, A.F. Lifschitz, X. Davoine, C. Thaury, J.-M. Rax, and V. Malka, 35th International Free Electron Laser Conference, Manhattan, USA, August 26-30 (2013)

149 Progress of the LUNEX5 Project
M.-E. Couprie, C. Benabderrahmane, L. Cassinari, J. Daillant, C. Evain, N. Hubert, M. Labat, A. Loulergue, J. Lüning, P. Marchand, O. Marcouillé, C. Miron, P. Morin, A. Nadji, P. Roy, S. Bielawski, E. Roussel, C. Szwaj, B. Carré, D. Garzella, N. Delerue, G. Devanz, A. Dubois, G. Lambert, R. Lehe, V. Malka, C. Thaury, M. Luong, 35th International Free Electron Laser Conference, Manhattan, USA, August 26-30 (2013)

148 Fully PhaseMatched High Harmonics Generation in a HollowWaveguide for Free Electron Laser Seeding
C. Vicario, F. Ardana-Lamas, A. Trisorio, C.P. Hauri, G. Lambert, V. Malka, B. Vodungbo, P. Zeitoun, 35th International Free Electron Laser Conference, Manhattan, USA, August 26-30 (2013)

147 High power ultrafast lasers and their applications: recent achievements at ALLS and vision for a Canadian roadmap
S. Gnedyuk, K. Otani, M. Glesser, S. Fourmaux, S. Payeur, B. Smith, F. Légaré, P. Antici, V. Marceau, M. Piché, M. Mo, A. Ali, R. Fedosejevs, E. Hallin, Josef Hormes, V. Malka, K. TaoPhuoc, A. Rousse, J. Fuchs, G. Kantor, G. Mourou, S. MacLean, J.C. Kieffer, Symposium L. S. Chin, 29-30 avril 2013.

146 Self-injection and stability in laser-plasma accelerators
Cédric Thaury, Sebastien Corde, Kim Ta Phuoc, Agustin Lifschitz, Remi Lehe, Guillaume Lambert, Antoine Rousse, Victor Malka, SPIE, 15-18 avril 2013.

145 A high-repetition-rate laser-wakefield accelerator for studies of laser pulse propagation and electron acceleration
Zhaohan He, John A. Nees, Bixue X. Hou, Victor Malka, Karl M. Krushelnick, Jérôme Faure, Alexander G. R. Thomas, SPIE, 15-18 avril 2013.

144 The ELI-ALPS secondary sources: a getaway to scientific excellence
Cord L. Arnold, Fernando Brizuela L, Antonin Borot, Francesca Calegari, Dimitris Charalambidis, Zsolt Diveki, Peter Dombi, Jozsef A. Fülöp, Christoph M. Heyl, Anne L'Huillier, Dino Jaroszynski, Per Johnsson, Victor Malka, Mikhail Kalashnikov, Malte Kaluza, Dominik Kandula, Rodrigo Lopez-Martens, Mauro Nisoli, Karoly Osvay,

Fabien Quere, Ervin Racz, Arnaud Rouzée, Piotr Rudawski, Paris Tzallas, Marc Vrakking, CLEO San Jose CA, USA, 4-9 June 2013.

143 Generation And Metrology Of The 6th Harmonic Generated From Gas At 135 nm In View Of Seeding FEL
G. Lambert (poster), J. Gautier, B. Vodungbo, Ph. Zeitoun, S. Sebban, V. Malka, A. Petrallia, L. Giannessi, proceedings Conference FEL, 26-31 august 2012 Nara (Japan).

142 Progress On The Generation Of Undulator Radiation In The UV From A Plasma-Based Electron Beam
G. Lambert (poster), S. Corde, K. Ta phuoc, V. Malka, A. Ben Ismail, E. Benveniste, A. Specka, M. Labat, A. Loulergue, R. Bachelard, M.E. Couprie, proceedings Conference FEL, 26-31 august 2012 Nara (Japan).

141 Numerical Study of An Fel Based On Lwfa Electrons And A Laser-Plasma Wiggler
R. Lehe (poster), X. Davoine, G. Lambert, A.F. Lifschitz, J.-M. Rax, V. Malka, proceedings Conference FEL, 26-31 august 2012 Nara (Japan).

140 All-optical Betatron and Compton x-ray sources and application to phase contrast imaging
S. Corde (Oral, International), K. Ta Phuoc, S. Fourmaux, C. Thaury, P. Lassonde, G. Lebrun, S. Payeur, F. Martin, R. C. Shah, S. Sebban, V. Malka, J. C. Kieffer, and A. Rousse, CLEO: 2012, San Jose, USA (6-11 May 2012).

139 Control and mapping of x-ray emission in a laser-plasma accelerator
S. Corde (Oral, International), K. Ta Phuoc, C. Thaury, A, Lifschitz, R. Fitour, J. Faure, G. Lambert, O. Lundh, E. Benveniste, A. Ben-Ismaïl, L. Arantchouk, A. Marciniak, A. Stordeur, P. Brijesh, A. Specka, V. Malka, and A. Rousse, CLEO: 2012, San Jose, USA (6-11 May 2012).

138 LUNEX5: towards an advanced FEL
M. Labat, C. Benabderrahmane, P. Betinelli, F. Bouvet, A. Buteau, L. Cassinari, M. E. Couprie, J. Daillant, J. C. Denard, P. Eymard, B. Gagey, C. Herbeaux, A. Lestrade, A. Loulergue, P. Marchand, J. L. Marlats, C. Miron, P. Morin, A. Nadji, F. Polack, J. B. Pruvost, F. Ribeiro, J. P. Ricaud, P. Roy, T. Tanikawa, R. Roux, S. Bielawski, C. Evain, C. Szwaj, G. Lambert, A. Lifschitz, V. Malka, R. Lehe, A. Rousse, K. Ta Phuoc, C. Thaury, G. Devanz, M. Luong, B. Carré, G. LeBec, L. Farvacque, A. Dubois, J. Lüning, Proccedings de UVX 2012, 12-15 Juin 2012 Porquerolles (France).

137 The LUNEX5 project in France
M. E. Couprie, C. Benabderrahmane, P. Betinelli, F. Bouvet, A. Buteau, L. Cassinari, J. Daillant, J. C. Denard, P. Eymard, B. Gagey, C. Herbeaux, M. Labat, A. Lestrade, A. Loulergue, P. Marchand, J. L. Marlats, C. Miron1, P. Morin, A. Nadji, F. Polack, J. B. Pruvost, F. Ribeiro, J. P. Ricaud, P. Roy, T. Tanikawa, R. Roux, S. Bielawski, C. Evain, C. Szwaj, G. Lambert, A. Lifschitz, V. Malka, R. Lehe, A. Rousse, K. Ta Phuoc, C. Thaury, G. Devanz5, M. Luong, B. Carre, G. LeBec, L. Farvacque, A. Dubois, J. Lüning, Proceedings ICXRL 2012, 11-15 Juin 2012, Paris (France).

136 The Lunex5 Project
M. E. Couprie, C. Benabderrahmane, M. Bessiere, P. Betinelli, F. Bouvet, A. Buteau, L. Cassinari, J. Daillant, J. C. Denard, P. Eymard, B. Gagey, C. Herbeaux, M. Labat, A. Lestrade, A. Loulergue, P. Marchand, J. L. Marlats, C. Miron, P. Morin, A. Nadji, F. Polack, J. B. Pruvost, F. Ribeiro, J. P. Ricaud, P. Roy, R. Roux, S. Bielawski, C. Evain, C. Szwaj, G. Lambert, A. Lifschitz, V. Malka, A. Rousse, A. Dubois, J. Lüning, G. Lebec, L. Farvacque, G. Devanz, M. Luong, Proceedings Fel2012, 26-31 aout 2012, Nara (Japan).

135 Proton acceleration with a few fs kHz laser system
M.Veltcheva, A. Borot, C. Thaury, A. Malvache, E. Lefebvre. A. Flacco, R. Lopez-Martens, V. Malka, International OSA Network of Students (IONS), Paris, France, Fevrier (2012)

134 Proton acceleration with a few fs kHz laser system
M.Veltcheva (poster), A. Borot, C. Thaury, A. Malvache, E. Lefebvre. A. Flacco, R. Lopez-Martens, V. Malka, Laser-Plasma Interaction at Ultra-High Intensity, Dresden, Allemagne, Avril (2012)

133 Brunel-dominated proton acceleration with a few-cycle laser pulse

M.Veltcheva (oral), A. Borot, C. Thaury, A. Malvache, E. Lefebvre. A. Flacco, R. Lopez-Martens, V. Malka, European Physical Society, Strasbourg, France, Juillet (2011)

132 Brunel-dominated proton acceleration with a few-cycle laser pulse
M.Veltcheva (oral), A. Borot, C. Thaury, A. Malvache, E. Lefebvre. A. Flacco, R. Lopez-Martens, V. Malka, International Conference on Ion Sources, Catane Italie, Septembre (2011)

131 Proton acceleration with a few fs kHz laser system
M.Veltcheva, A. Borot, C. Thaury, A. Malvache, E. Lefebvre. A. Flacco, R. Lopez-Martens, V. Malka, NANO-Insight in Beam Cancer Theraphy, Caen, France, octobre (2011)

130 Proton acceleration with a few fs kHz laser system
M.Veltcheva, A. Borot, C. Thaury, A. Malvache, E. Lefebvre. A. Flacco, R. Lopez-Martens, V. Malka, 3ième rencontre Franco-Japonais sur la matière dense, Les Houches, France, Janvier (2011)

129 FEL Performances of the French LUNEX5 Project
C. Evain, S. Bielawski, M. Labat, A. Loulergue, C. Benabderrahmane, M.-E. Couprie, G. Lambert, A. Lifschitz, V. Malka, Proceedings FEL2012, Nara, Japan, 26-31 aout (2012)

128 High harmonics from gas, a suitable source for seeding fel from the vacuum-ultraviolet to soft x-ray region
G. Lambert, B. Vodungbo, J. Gautier, A. Sardinha, F. Tissandier, Ph. Zeitoun, V. Malka, S. Sebban, M.E. Couprie, M. Labat, O. Chubar, T. Hara, H. Kitamura, T. Shintake, Y. Tanaka, T. Tanikawa, D. Garzella, B. Carré, J. Luning, C.P. Hauri, M. Fajardo, Proceedings FEL2011, Shengai, Chine, 22-26 Aout (2011)

127 LUNEX5 : an FEL project towards the fifth generation in France
M. E. Couprie, F. Briquez, C. Benabderrahmane, C. Evain, J. C. Denard, P. Eymard, F. Ferrari, J. M. Filhol, M. Labat, J. Lüning, A. Loulergue, P. Marchand, C. Miron, F. Polack, P. Morin, G. Lambert, V. Malka, A. Rousse, S. Bielawski, C. Szwaj, C. Reynaud, B. Carré, A. Variola, F. Cavalier, A. Stocchi, J. Poole, C. Petit-Jean-Genaz, Proceedings FEL2011, Shengai, Chine, 22-26 Aout (2011)

126 Seeding schemes on the French FEL project LUNEX5
C. Evain, M. Labat, M.E. Couprie, F. Briquez, A. Loulergue, V. Malka, Proceedings FEL2011, Shengai, Chine, 22-26 Aout (2011)

125 Particle Detection in Laser-Plasma Ion Acceleration
A. Flacco (Oral), S. Sylla, F. Kahaly, M. Veltcheva, V. Malka, Instrumentation for Diagnostics and Control of Laser Accelerated Ion Beams, Abingdon (UK), 9-11 Aout (2010)

124 Observation of spectral modulations in laser-ion acceleration from underdense plasma
A. Flacco (Oral), S. Sylla, F. Kahaly, M. Veltcheva, V. Malka G. Sanchez-Arriaga, E. Lefebvre American Physical Society - Division Plasma Physics, Chicago (USA), 10-13 Novembre (2010)

123 Observation of spectral modulations in laser-ion acceleration from underdense plasma
A. Flacco (Oral), S. Sylla, F. Kahaly, M. Veltcheva, V. Malka G. Sanchez-Arriaga, E. Lefebvre, LPAW conference Wuzhen, China, 20-24 Juin (2011)

122 Exploring the betatron radiation physics using colliding pulse injection
S. Corde (Invited), K. Ta Phuoc, R. Fitour, J. Faure, C. Thaury, A. Lifschitz, G. Lambert, O. Lundh, E. Benveniste, A. Ben-Ismaïl, L. Arantchouk, A. Marciniak, A. Stordeur, P. Brijesh, A. Specka, V. Malka, and A. Rousse, SPIE Optics + Optoelectronics, Harnessing Relativistic Plasma Waves as Novel Radiation Sources from Terahertz to X-rays and Beyond, Prague, Czech Republic (18-21 April 2011).

121 Un diagnostic innovant de l'interaction laser-plasma: mesure du profil longitudinal de l' émission X
S. Corde (Invited), C. Thaury, K. Ta Phuoc, A. Lifschitz, G. Lambert, A. Marciniak, A. Stordeur, O. Lundh, J. Faure, P. Brijesh, L. Arantchouk, E. Benveniste, A. Ben-Ismaïl, A. Specka, A. Rousse, and V. Malka, XXIème Congrès Général de la Société Française de Physique, Bordeaux, France (4-8 July 2011).

120 Recent progresses in Betatron Radiation from Laser-Plasma Accelerators

S. Corde (Invited), K. Ta Phuoc, R. Fitour, J. Faure, C. Thaury, A. Lifschitz, G. Lambert, O. Lundh, E. Benveniste, A. Ben-Ismaïl, L. Arantchouk, A. Marciniak, A. Stordeur, P. Brijesh, A. Specka, V. Malka, and A. Rousse, 3rd International Conference on Ultraintense Laser Interaction Science, Lisbon, Portugal (10-13 October 2011).

119 Une source innovante et prometteuse de rayons X pour le contrôle de pièces métalliques : L'Accélérateur Laser Plasma
E. Benveniste, P. Bouvet, A. Ben Ismail, K. Taphuoc, A.Marciniak, S. Corde, V.Malka, COFREN confrence, 24-27 may (2011) France.

118 High-power laser-induced fast electron generation and transport in solid targets and in laser-induced shock compressed plasmas
J. J. Santos, D. Batani, S. D. Baton, E. Brambrinck, P. Carpeggiani, T. Ceccotti, A. Debayle, F. Deneuville, F. Dorchies, V. Floquet, C. Fourment, L. Gremillet, E. d'Humières, J. J. Honrubia, S. Hulin, R. Jafer, K. Lancaster, M. Koenig, P. Köster, P. McKenna, V. Malka, M. Manclossi, Ph. Martin, A. Morace, Ph. Nicolaï, F. Perez, M. N. Quinn, H.-P. Schlenvoigt, B. Vauzour, M. Veltcheva, L. Volpe, and V. T. Tikhonchuk
Frontiers of Nonlinear Physics" to be held in Russia, over the Volga river, July 13-20 (2010).

117 Etat de l'art des sources X générés à partir d'un accélérateur laser-plasma
S. Corde (Invited), K. Ta Phuoc, A. Beck, G. Lambert, R. Fitour, E. Lefebvre, S. Sebban, V. Malka, and A. Rousse, 10ième Colloque sur les Sources Cohérentes et Incohérentes UV, VUV et X; Applications et développements récents, Ile de Porquerolles, France (20-24 September 2010).

116 Femtosecond X-rays from Laser-Plasma Accelerators
S. Corde (Oral), K. Ta Phuoc, A. Beck, G. Lambert, R. Fitour, E. Lefebvre, S. Sebban, V. Malka, and A. Rousse, Fourth International Conference on Superstrong fields in plasmas, Varenna, Italy (3-9 October 2010).

115 État de l'art des sources X générées par interaction laser-plasma relativiste
Colloque UVX 2010 sur le thème: Etat de l'art des sources X produites par électrons relativistes dans les plasmas.
S. Corde, K. Ta Phuoc, A. Beck, G. Lambert, R. Fitour, E. Lefebvre, S. Sebban, V. Malka and A. Rousse

114 Femtosecond electron bunches from laser-plasma accelerators. Prospects for the development of femtosecond X-rays
J. Faure et al., (poster), Ultrafast phenomena in Cooperative systems, Galveston, Texas, February (2010)

113 Controlled injection and observation of beam loading effects in a laser-plasma Accelerator
C. Rechatin et al., Laser and Plasma accelerator workshop, Kardamili, Greece, June 22-26 (2009)

112 Development of Laser-Based X-Ray Sources Using Non-Trivial Plasma Medium or Additional Laser Pulses
S. Corde (Poster, International), K. Ta Phuoc, C. Rechatin, R. Fitour, and A. Rousse, The 2nd International Conference on Ultra-Intense Laser Interaction Science, Frascati, Italy (24-29 May 2009).

111 Laser Plasma accelerator based high energy radiation femtochemistry
Y. Gauduel (invited talk), C. Rechatin, O. Lundh, J. Faure, and V. Malka, PACIFICHEM-Honolulu (USA) December 15-20 (2010)

110 Characterization of femtosecond, high peak-current relativistic electron bunches from a laser-plasma accelerator
O. Lundh, J. Lim, C. Rechatin, L. Ammoura, A. Ben-Ismaïl, X. Davoine, G. Gallot, E. Lefebvre, V. Malka, J. Faure, Conference (FEL2010) held in Malmö, Sweden, 23-27 August (2010)

109 Few-femtosecond laser-accelerated electron bunches
O. Lundh (invited talk), J. Lim, C. Rechatin, L. Ammoura, A. Ben-Ismaïl, X. Davoine, G. Gallot, J.-P. Goddet, E. Lefebvre, V. Malka and J. Faure, SILMI, MPQ Garching, Germany, March 1-9 (2010)

108 Cold optical injection producing monoenergetic multiGeV electron bunches
E. Lefebvre, X. Davoine, J. Faure, and V. Malka, SILMI, MPQ Garching, Germany, March 1-9 (2010)

107 Investigation of high intensity laser proton acceleration using low density targets
E. d'Humières, P. Nicolaï, J.-L. Feugeas, S. Gaillard, C. Geddes, E. Esarey, W. Leemans, E. Michel, C. Schroeder, E. Lefebvre, L. Gremillet, V. Malka, V. Tikhonchuk, T.E. Cowan, Y. Sentoku
Sixth International Conference on Inertial Fusion Sciences and Applications, San Francisco, September 7-11 2009.

106 Simulation of quasi-monoenergetic electron beams produced by colliding pulse wakefield acceleration
X. Davoine, E. Lefebvre, C. Rechatin, A. Lifschitz, J. Faure, V. Malka
The 13th Advanced Accelerator Concepts Workshop (AAC08), 27 juillet-2 aout 2008, Santa Cruz / Californie

105 Optical injection in low density plasma wakefield: production of narrow-energy-spread electron bunches
X. Davoine, E. Lefebvre, C. Rechatin, A. Lifschitz, J. Faure, V. Malka
The 13th Advanced Accelerator Concepts Workshop (AAC08), 27 juillet-2 aout 2008, Santa Cruz / Californie

104 One Percent Energy Spread of 200 MeV LWFA Electron Beams Measured with A High-Resolution Imaging Spectrometer
Ahmed Ben-Ismail, Clément Rechatin, Arnd Specka, Jérôme Faure, Jae K. Lim, Amar Tafzi, Henri Videau And Victor Malka
The 13th Advanced Accelerator Concepts Workshop (AAC08), 27 juillet -2 aout 2008, Santa Cruz / Californie

103 Stable & fully tunable electron source, towards an operational laser plasma accelerator
C. Rechatin, J. Faure, A. Ben Ismail, J.K. Lim, R. Fitour, A. Tafzi, V. Malka, X. Davoine, E. Lefebvre
The 13th Advanced Accelerator Concepts Workshop (AAC08), 27 juillet -2 aout 2008, Santa Cruz / Californie

102 Interaction of ultrashort relativistic electron bunch with disulfide biomolecular water systems: innovatin spatiotemporal dosimetry at nanometric scale for radiobiology and radiotherapy
Y. Gauduel, Y. Glinec, V. Malka, and H. Belhadj-Tahar, 2 Symposium on novel targeting drugs and radiotherapy, Toulouse 14-15 Juin 2007.

101 Laser non-uniformity smoothing using gas jets
D. Batani, R. Dezulian, R. Redaelli, R. Benocci, H. Stabile, F. Canova, G. Lucchini, T. Desai, M. Koenig, B. Krousky, K. Masek, M. Pfeifer, J. Skala, R. Dudzak, V. Tikhonchuk, J. Faure, V. Malka, Inertial Fusion Science and application, Kobe, Japan, September 9-14 (2007).

99 Fast electron transport and induced heating in aluminium foils
J.J Santos, A. Debayle, Ph. Nicolais, V. Tikhonchuk, M. Manclossi, D. Batani, A. Guemnie-Tafo, J. Faure, V. Malka, J. Honrubia, Inertial Fusion Science and application, Kobe, Japan, September 9-14 (2007).

98 Target ionization by a high current electron beam: characteristics of the ionization front and its stability
V. T. Tikhonchuk, A. Debayle, J. J. Santos, M. Manclossi, D. Batani, J. Faure, and V. Malka, XII Conference on Laser Optics St. Petersburg, June 26 – 30, 2006

97 Laser-plasma wakefield acceleration: concepts, tests and premises
V. Malka, J. Faure, Y. Glinec, A. Lifschitz, European Particle Accelerator Conference EPAC, Edimburgh, June 26-30 (2006)

96 Review of high-brightness proton and ion acceleration using pulsed lasers
J.Fuchs, P. Audebert, P. Antici, E. Brambrink, E. d'Humières, J.-C. Gauthier, L. Romagnani,T.E. Cowan, A. Kemp, N. Renard-LeGalloudec, H. Ruhl, Y. Sentoku, M. Borghesi, C.A. Cecchetti, O. Willi, T. Toncian, A. Pipahl, P. Mora, E. Lefebvre, I. Barton, J. Kaae, R. Stephens, M. Roth, A. Blazevic, M. Geissel, M. Hegelich, J. Cobble, J.C. Fernández, M. Kaluza, S. Karsch, J. Schreiber, V. Malka, M. Manclossi, S. Meyroneinc, H. Pépin 39th ICFA Advanced Beam Dynamics Workshop on *High Intensity High Brightness Hadron Beams, HB2006*, that was held in Tsukuba City, Japan, from May 29 to June 2, 2006

95 PIC simulations of proton acceleration with high intensity lasers: the transparency regime, and interaction with underdense targets
E. d'Humières, J. Fuchs, P. Antici, P. Audebert, E. Brambrink, E. Lefebvre, V. Malka,, P. Mora, Y. Sentoku.

12th Advanced Accelerator Concepts Workshop, July 10-15, 2006, Lake Geneva, USA.

94 Direct observation of betatron oscillations from a laser plasma accelerator.
Y. Glinec, J. Faure, V. Malka, J.P. Rousseau, J.M. Vieira, L. O Silva

93 Direct observation of betatron oscillations of an electron beam accelerated in a plasma bubble driven by an ultrashort laser pulse
J. Faure, Y. Glinec, A. Lifschitz, J.-P. Rousseau, F. Burgy, J. Vieira, L. O. Silva and V. Malka, EPS, Rome June 19-23 (2006).

92 Laser-plasma accelerators: dependence of the quasi monoenergetic electron beam parameters with laser focal spot size
V. Malka, J. Faure, Y. Glinec, A. Norlin, A. Lifschitz, J.-P. Rousseau, F. Burgy, J. Vieira, R. A. Fonseca, L. O. Silva, EPS, Rome June 19-23 (2006).

92 Ultra Intense Laser Produced Fast Electron Transport and Heating of Aluminium Foil Targets by Optical Emission Diagnostics, EPS, Rome June 19-23 (2006).
J. J. Santos, M. Manclossi, D. Batani, A. Guemnie-Tafo, J. Faure, A. Debayle, P. Nicolaï, and V. Malka, EPS, Rome June 19-23 (2006).

91 Ultra Intense Laser Produced Fast Electron Transport, Filamentation and Heating of Solid Foil Targets by Optical Emission Diagnostics: Insulators *versus* Conductors
J. J. Santos, M. Manclossi, D. Batani, A. Guemnie-Tafo, J. Faure, A. Debayle, Ph. Nicolaï, V. Tikhonchuck and V. Malka, ECLIM, Madrid June 14-19 (2006).

90 Radiotherapy with an existing electron beam produced by laser-plasma interaction
Y. Glinec, J. Faure, V. Malka, T. Fuchs, H. Symanowski, U. Oelfke
Sept 24-29 2005: ESTRO, Lisbon, Portugal

89 Laser Wakefield Acceleration of 170 MeV Quasi-monoenergetic Electron Beams
J. Faure et al.
May 2005: CLEO 2005 in Baltimore

88 Femtochimie Radicalaire et Rayonnements Ionisants Ultrabrefs: Nouveaux challenges.
Y. Gauduel, V. Malka, S. Fritzler, Y. Glinec (Conférence invitée), XIIèmes J.E.C.R., Strasbourg, 29 mai – 3 juin 2004

87 Transient states imaging by femtosecond laser spectroscopy. Innovating advances for life chemistry.
Y. Gauduel, V. Malka, T. Launay, F. Guilloud, B. Charles (Conférence invitée)
International IMVIE Symposium "Imaging for Medical and Life Sciences", 1-3 mars 2005, Strasbourg

86 Low and high energy radiation femtochemistry of biological interest (Conférence invitée)
Y. Gauduel, Y. Glinec, V. Malka
2nd International RADAM Conference " Radiation Damage in Biomolecular Systems ", 17-20 mars 2005, Potsdam, Allemagne

85 Original applications for laser-plasma accelerators.
Y. Glinec, J. Faure, J. Santos, Y. Gauduel, L. Le Dain, S. Darbon, T. Hosokai, T. Fuchs, H. Szymanowski, E. Lefebvre, V. Malka, Fourth International Conference on Inertial Fusion Sciences and Applications, 4-9 septembre 2005, Biarritz

84 High energy radiation femtochemistry in aqueous solutions
Y. Gauduel, Y. Glinec, V. Malka, International Pacifichem, 15-20 décembre 2005, Honolulu, USA

83 Characterization of Fast Electron beams in UHI Laser-Solid Interaction by Optical Transition Radiation Diagnostic,
M. Manclossi et al., International Seminar on Atoms, Molecules, and Clusters in Intense Laser Fields, Tokyo, January 2005, Japan

82 Applications of laser-plasma electron accelerators: point-scanning radiotherapy and high resolution radiography of dense objects;
Y. Glinec et al., June 12-17 2005: CLEO Europe, Munich, Germany

81 Characterization of Multi-Temperature Fast Electron Beams on UHI laser-solid interactions by Target Rear Side Self-Emission Diagnostics
J. J. Santos, M. Manclossi, A. Guemnie-Tafo, J. Faure, V. Malka, F. Burgy, T. Lefrou, J.-P. Rousseau, D. Batani, June 27th –July 1st 2005: European Physical Society, Taragonna, Spain

80 Laser wakefield acceleration of electron bunches in the mildly nonlinear regime
A. Lifschitz, V. Malka, J. Faure and P. Mora, June 27th –July 1st 2005: Poster at the European Physical Society, Taragonna, Spain

79 Characterization of Fast Electron beams in UHI Laser-Solid Interaction by Optical Emission Diagnostics;
M. Manclossi et al. September 2005: 4th International Conference on Inertial Fusion Sciences and Applications, Biarritz

78 Laser driven X ray source
R.D. Edwards, M.A Sinclair, T J Goldsack, E.L.Clark, K.Krushelnick, M.Tatarakis, M.Zepf, A.E.Dangor, V.Malka, E.Lefebvre, R.J. Clarke, S.Mangles, K.W.D.Ledingham, S.Quillin, C Aedy, Laser and nuclei, September 12-15 (2004)

77 High charge monoenergetic electron beams generated by 30 fs laser pulses;
J. Faure, Y. Glinec, V. Malka, June 28-July 2nd 2004: 31st European Physical Society Conference on Plasma Physics

76 Generation of quasi-monoenergetic electron beams using ultrashort and ultraintense laser pulses
J. Faure, Y. Glinec, A. Pukhov, S. Kiselev, S. Gordienko, and V. Malka, ECLIM, Rome, Italy, September 6-10 (2004).

75 Ultrashort relativistic electron beam and radical femtochemistry
Y. Gauduel, S. Fritzler, A. Hallou, Y. Glinec, V. Malka (Conférence invitée), VIIth Trombay Symposium on Radiation and Photochemistry, 6-12 Janvier 2004, Bombay, Inde.

74 Femtosecond relativistic electron beam triggered early bioradical events.
Y. Gauduel, S. Fritzler, A. Hallou, Y. Glinec, V. Malka (Conférence invitée), International SPIE Symposium Photonics Europe " Femtosecond Laser Applications in Biology ", 26-30 avril 2004, Strasbourg.

73 Fast electron propagation in solid target, foams, and gas jets.
D. Batani, S. D. Baton, M. Manclossi, J.J. Santos, F. Amiranoff, M. Koenig, E. Martinolli, A. Antonicci, C. Rousseaux, M. Rabec Le Gloahec, T. Hall, T. E. Cowan, R. Stephens, M. Key, J. King, R. Freeman. 13 th International Laser Physics Workshop (LPHYS'04), Trieste, Italy July 12-16 (2004).

72 Propagation in matter of currents of relativistic electrons beyond the Alfven limit, produced in Ultra high Intensity Short Pulse Laser Matter Interaction.
D. Batani, S. D. Baton, M. Manclossi, J.J. Santos, F. Amiranoff, M. Koenig, E. Martinolli, A. Antonicci, C. Rousseaux, M. Rabec Le Gloahec, T. Hall, T. E. Cowan, R. Stephens, M. Key, J. King, R. Freeman. International Symposium on ultra-intense laser science, Steri, Sicily, Italy september 16-20 (2004).

71 Optical probing of under-dense plasmas with the Vulcan Petawatt laser
P. Nilson, S.P.D Mangles, L. Willingale, A. Thomas, M. Tatarakis, Z. Najmudin, A.E. Dangor, K. Krushelnick, R.J. Clarke, K. Lancaster, S. Karsch, C. Hernandez-Gomez, D. Neely, J. Schreiber, M. Kaluza, Y. Glinec, and V. Malka. APS, Savannah, USA, Nov.15-19 (2004).

70 Use of ultra intense lasers hope for cheap and compact proton machines
R. Ferrand, S. Delacroix, S. Meyroneinc, V. Malka, A. Antonetti, J.P. Chambaret, D. Hulin, 42th meeting of the Société Française de Physique Médicale, Reims, France, June 3-6 (2003).

69 Electron beam production with an ultra short and intense laser pulse: A new tool for scientists
V. Malka, S. Fritzler, E. Lefebvre, K. Krushelnick, S. P. D. Mangles, Z. Najmudin, B. Walton, and A.E. Dangor, ITCPP Santorini (2003).

68 Enhanced spatio-temporal laser smoothing in gas jet plasmas.
V. Malka, J. Faure, S. Huller, V. T. Tikhonchuk, F. Amiranoff XXVII European Conference on Laser Interaction with Matter, Moscou ECLIM, October7-11 (2002).

67 Relativistic electron génération in interaction of a 30 TW laser pulse with thin foil target.
G. Malka, M.M. Aleaonard, J. F. Chemin, G. Calverie, M. R. Harston, J. N. Scheurer, V. Tickonchuck, S. Fritzler, V. Malka, P. Balcou, G. Grillon, E. Lefebvre XXVII European Conference on Laser Interaction with Matter, Moscou ECLIM, October7-11 (2002).

66 Nuclear Activation with high intensities laser.
G. Malka, M.M. Aleaonard, J. F. Chemin, G. Calverie, M. R. Harston, J. N. Scheurer, V. Tickonchuck, S. Fritzler, V. Malka, P. Balcou, G. Grillon, E. Lefebvre European Physical Society, Montreux, June 17-18 (2002).

65 Electron Acceleration and Magnetic Field Generation in Ultra-Short Pulse Laser Plasma Interactions
B. Walton, S. Mangles, J.-P. Chambaret, S. Fritzler, K. Krushelnick, V. Malka, Z. Najmudin, M. Pittman, J.-P. Rousseau, and A.E. Dangor, European Physical Society, Montreux, June 17-18 (2002).

64 Laser-plasma accelerator: Generation of a well-collimated 200 MeV electron beam.
V. Malka, S. Fritzler, M. Pittman, J-P. Rousseau, J-P. Chambaret, M-M. Aleonard, J-F. Chemin, G. Malka, J-N. Scheurer, E. Lefebvre, European Physical Society, Montreux, June 17-18 (2002).

63 X-ray spectra of xenon and krypton in the range 0.5-1 nm.
C. Chenais-Popovics, V. Nagels, V. Malka, J.F. Wyart, A. Bachelier, J.-C. Gauthier, 13th APS Topical Conference on Atomic Processes in Plasmas, Gatlinburg, Tenesse, USA, 22-25 Avril 2002

62 Nuclear physics with powerful laser pulses
G. Malka, M.M. Aleaonard, J. F. Chemin, G. Calverie, M. R. Harston, J. N. Scheurer, V. Tickonchuck, S. Fritzler, V. Malka, P. Balcou, G. Grillon, S. Moustaizis, E. Lefebvre, V. Meot, Kyoto IFSA (2001)

61 Mulit MeV electrons produced by a femtosecon laser pulse propagating in an exploding foil plasma.
D. Giuletti, M. Galimberti, A. Giuletti, L. AL. Gizzi, R. Numico, P. Tomassini, M. Borghesi, V. Malka, S. Fritzler, M. Pittman Worshop on the 2th generation laser and plasma accelerators, Giens, June 24-29 (2001).

60 Optimizing photo-nuclear reactions with the 2 J, 30 fs LOA laser
G. Malka, M.M. Aleaonard, J. F. Chemin, G. Calverie, J. N. Scheurer, V. Tickonchuck, S. Fritzler, V. Malka, P. Balcou, G. Grillon, S. Moustaizis, E. Lefebvre SPI San diego (2001)

59 Radiative shoch experiment using high power laser
M. Koenig, A. Benuzzi-Mounaix, N. Grandjouan, V. Malka, S. Bouquet, X. Fleury, B. Marchet, Ch. Stehlé, S. Leygnac, C. Michaut, J.P. Chièze, D. Batani, E. Henry, T. Hall APS (2001)

58 X-ray emission of a xenon gas jet plasma diagnosed with Thomson scattering.
J. C. Gauthier, C. Chenais-Popovics, V. Malka, S. Gary, M. Rabec-Le Gloahec, I. Matsushima, O. Peyrusse, Japon IFSA (2001).

57 The Radiative Shock: Theory, Laser Experiments and Interpretation
S. Bouquet, X. Fleury, M. Koenig, A. Benuzzi-Mounai, D. Batani, T. Hall, N. Grandjouan, V. Malka, E. Henry, S. Leygnac, H. Merdji, J. Grenier, P. Barroso, C. Stehlé, C. Michaut, F. Thais, J.-P. Chièze and J.-P. J. Lafon, IFSA Japon (2001)

56 Electron beams produced by ultrashort (30fs) laser pulses.
V. Malka, J. Faure, J. R. Marquès, F. Amiranoff, J. P. Rousseau, S. Ranc, J. P. Chambaret, Z. Najmudin, B. Walton, A. Solodov, P. Mora, Workshop on 2nd generation laser and plasma accelerators Giens France (2001).

55 Characterization of electron beams produced by ultrashort (30fs) laser pulses.
V. Malka, J. Faure, J. R. Marquès, F. Amiranoff, J. P. Rousseau, S. Ranc, J. P. Chambaret, Z. Najmudin, B. Walton, A. Solodov, P. Mora, Workshop on particles source with high intensity laser Milan Italie (2001).

54 Detailed study of Raman instability and electron acceleration in the self-modulated laser wake field accemerator.
J. Faure, V. Malka, J. R. Marquès, F. Amiranoff, Z. Najmudin, B. Walton, J. P. Rousseau, S. Ranc, A. Solodov, and P. Mora, Anomalous absorption conference, Banff (2000).

53 The correlation of Raman side-scatter with relativistic self-focusing and implications for the generation of relativistic electrons.
B. Dangor, Z. Najmudin, M. Tatarakis, K. Krushelnick, E. Clark, M. Santala, , C. Danson, D. Neely, J. Faure, V. Malka, 42nd Annual Meeting of the APS Division of Plasma Physics with the 10th International Congress on Plasma Physics October 23-27, 2000 Quebec City, Canada.

52 Investigating the inverse Faraday effect with an intense short pulse laser.
Z. Najmudin, M. Tatarakis, K. Krushelnick, E. Clark, M. Santala, B. Dangor, R. Clarke, D. Neely, J. Faure, V. Malka, 42nd Annual Meeting of the APS Division of Plasma Physics with the 10th International Congress on Plasma Physics October 23-27, 2000 Quebec City, Canada.

51 Meaurements of forward Raman scattering and electron acceleration from high intensity plasma interactions at 527nm.
Z. Najmudin, R. Allott, F. Amiranoff, E. Clark, C. Danson, D. Gordon, K. Krushelnick, G. Malka, V. Malka, M. Salvati, M. Santala, M. Tatarakis, B. Dangor, Ultra-Intense laser interactions and applications-1, Crete, Greece, May 7-11, 1999.

50 Ultra high intensity laser produced plasma as a compact heavy ion injection source.
K. Krushelnick, E. Clarke, R. Allott, F. N. Beg, C. N. Danson, A. Machacek, V. Malka, Z. Najmudin, D. Neely, P. A. Norreys, M. Salvati, M. Santala, M. Tatarakis, I. Watts, M. Zepf, A.E. Dangor, Ultra-Intense laser interactions and applications-1, Crete, Greece, May 7-11, 1999.

49 Multi-terawatt frequency doubling of picosecond pulses for plasma interactions
D. Neely, C. N. Danson, R. Allott, F. Amiranoff, E. L. Clark, C. Clayton, J. L. Collier, A. E. Dangor, A. Djaoui, C. B. Edwards, P. Flintoff, D. Gordon, P. Hatton, M. Harman, M. H. R. Hutchinson, K. Krushelnick, G. Malka, V. Malka, A. Modena, Z. Najmudin, D. A Pepler, I. N. Ross, M. Salvati, M. Santala, M. Tatarakis, M. Trentelman, and T. Winstone, Third International conference on solid state laser, Monterey (1999).

48 Multi-MeV ion production from high intensity laser interaction with underdense plasmas.
K. Krushelnick, E. Clarke, Z. Najmudin, M. Salvati, M. Santala, M. Tatarakis, A.E. Dangor, V. Malka, D. Neely, R. Allott, C. N. Danson, Ultra-Intense laser interactions and applications-1, Crete, Greece, May 7-11, 1999.

47 Inverse Faraday effect and propagation instabilities in the interaction of high intensity short pulse with underdense plasmas.
Z. Najmudin, E. Clarke, A.E. Dangor, C. N. Danson, K. Krushelnick, V. Malka, D. Neely, M. Salvati, M. Santala, M. Tatarakis, Ultra-Intense laser interactions and applications-1, Crete, Greece, May7-11, 1999.

46 Multi terawatt frequency doubling of picosecond pulses for plasma interactions.
D. Neely, C. N. Danson, R. Allot, J. L. Collier, C. B. Edwards, P. Flintoff, M. H. R. Hutchinson, D. A. Pepler, I. N. Ross, M. Trentelman, T. Winstone, Z. Najmudin, V. Malka, F. Amiranoff, E. L. Clark, A. E. Dangor, D. Gordon, K. Krushelnick, G. Malka, A. Modena, M. Salvati, M. Santala, and M. Tatarakis, 25th ECLIM Formio, Italy, May 3-7, 1998.

45 High intensity laser interactions with a gas jet.
Z. Najmudin, V. Malka, R. Allott, E. Clarke, F. Amiranoff, A.E. Dangor, C. N. Danson, P. Flintoff, D. Gordon, C. Joshi, K. Krushelnick, G. Malka, A. Modena, D. Neely, M. Salvati, M. Santala, M. Tatarakis, 25th ECLIM Formio, Italy, May 3-7, 1998.

44 High intensity laser interaction with a gas jet at 527nm.

M. Salvati, R. Allot, F. Amiranoff, E. L. Clark, A. E. Dangor, C. N. Danson, P. Flintoff, D. Gordon, K. Krushelnick, V. Malka, G. Malka, A. Modena, Z. Najmudin, M. Santala, and M. Tatarakis, 25th ECLIM Formio, Italy, May 3-7, 1998.

43 Observation of laser wakefield acceleration of electrons
F. Amiranoff, S. Baton, D. Descamps, F. Dorchies, V. Malka, J. R. Marquès, A. Modena, D. Bernard, F. Jacquet, P. Mine, J. Morillo, P. Mora, B. Cros, G. Matthieussent, Z. Najmudin, European Particle Accelerator Conference 98, Stockholm.

41 Observation of electron energies beyond the linear dephasing limit from a laser-excited relativistic plasma wave.
D. Gordon, K. C. Tzeng, C. E. Clayton, A. E. Dangor, V. Malka, K. A. Marsh, A. Modena, W. B. Mori, P. Muggli, Z. Najmudin, and C. Joshi, 27th Annual Anomalous Absorption Conference, June 1-5, 1997, Vancouver (Canada).

40 Observation of self-channeling of relativistically-intense laser light in a very underdense plasma.
C. E. Clayton, D. Gordon, K. A. Marsh, C. Joshi, V. Malka, Z. Najmudin, A. Modena, A. E. Dangor, D. Neely, and C. Danson., 27th Annual Anomalous Absorption Conference, June 1-5, 1997, Vancouver (Canada).

39 Channel formation in long laser pulse interaction with a helium gas jet.
V. Malka, E. De Wispelaere, F. Amiranoff, S. Baton, R. Bonadio, C. Coulaud, R. Haroutunian, S. Hüller, A. Modena, D. Puissant, C. Stenz, 27th Annual Anomalous Absorption Conference, June 1-5, 1997, Vancouver (Canada).

38 Ion acoustic and electron plasma waves driven by a 0.526 mm laser beam in a preform He gas jet plasma.
S. Baton, F. Amiranoff, C. Coulaud, S. Hüller, V. Malka, A. Modena, Ph. Mounaix, M. Salvati, M. Casanova, N. Renard, C. Rousseaux, C. Stenz, 27th Annual Anomalous Absorption Conference, June 1-5, 1997, Vancouver (Canada).

37 SBS Reflectivity in stationary, millimeter size, He plasmas upon the RPP smoothing conditions.
C. Rousseaux, N. Renard, M. Casanova, F. Amiranoff, S. Baton, C. Coulaud, S. Hüller, V. Malka, A. Modena, Ph. Mounaix, M. Salvati, C. Stenz, 27th Annual Anomalous Absorption Conference, June 1-5, 1997, Vancouver (Canada).

36 Study of the localisation of the electron plasma and ion acoustic waves by coherent Thomson scattering in laser interaction with helium gas jets.
V. Malka, F. Amiranoff, S. Baton, C. Coulaud, S. Hüller, A. Modena, Ph. Mounaix, M. Salvati, M. Casanova, N. Renard, C. Rousseaux, C. Stenz, 27th Annual Anomalous Absorption Conference, June 1-5, 1997, Vancouver (Canada).

35 Raman and Brillouin scattering in the interaction of a nanosecond laser pulse with helium gas jets.
V. Malka, F. Amiranoff, S. Baton, C. Coulaud, S. Hüller, A. Modena, Ph. Mounaix, M. Salvati, M. Casanova, N. Renard, C. Rousseaux, C. Stenz, 27th Annual Anomalous Absorption Conference, June 1-5, 1997, Vancouver (Canada).

34 Observation of Raman forward scattering and electron acceleration in the relativistic regime.
Z. Najmidun, A. Modena, A. E. Dangor, C. E. Clayton, K. A. Marsh, P. Muggli, C. Joshi, V. Malka, C. N. Danson, D. Neely, F. N. Walsh, 26th Annual Anomalous Absorption Conference, August 26-30, 1996, Fairbanks (Alaska).

33 Stimulated Raman backscattering instability in short pulse laser interaction with helium gas.
V. Malka, E. De Wispelaere, J. R. Marquès, R. Bonadio, F. Amiranoff, Ph. Mounaix, G. Grillon, E. Nibbering, 26th Annual Anomalous Absorption Conference, August 26-30, 1996, Fairbanks (Alaska).

32 Interaction of a chirped picosecond laser pulse with He gas: time resolved ionization-induced refraction and Compton back-scattering in short pulse laser interaction with helium gas.
E. De Wispelaere, V. Malka, J. R. Marquès, R. Bonadio, F. Amiranoff, F. Dorchies, P. Chessa, P. Mora, Ph. Mounaix, G. Grillon, G. Hammoniaux, 26th Annual Anomalous Absorption Conference, August 26-30, 1996,

Fairbanks (Alaska).

31 Stimulated Raman backscattering instability in short pulse laser interaction with helium gas.
V. Malka, E. De Wispelaere, J. R. Marquès, R. Bonadio, F. Amiranoff, Ph. Mounaix, G. Grillon, E. Nibbering, 26th Annual Anomalous Absorption Conference, August 26-30, 1996, Fairbanks (Alaska).

30 Second harmonic generation in the interaction of a short-pulse laser with underdense Plasma.
V. Malka, A. Modena, Z. Najmidun, A. E. Dangor, C. E. Clayton, K. A. Marsh, C. Joshi, C. N. Danson, D. Neely, F. N. Walsh, 26th Annual Anomalous Absorption Conference, August 26-30, 1996, Fairbanks (Alaska)

29 Laser interaction with helium gas jet in the nanosecond pulse regime.
V. Malka, E. De Wispelaere, F. Amiranoff, Ph. Mounaix, S. Hüller, A. Modena, D. Puissant, C. Stenz, 26th Annual Anomalous Absorption Conference, August 26-30, 1996, Fairbanks (Alaska).

28 Observation of Raman forward scattering and electron acceleration in the relativistic regime.
A. Modena, Z. Najmudin, A. E. Dangor, C.E. Clayton, K. Marsh, C. Joshi, V. Malka, C. Darrow, C. N Danson, D. Neely, F. N. Walsh, 24th ECLIM Madrid, Spain, June 3-7, 1996.

27 Interaction of a chirped picosecond laser pulse with He gas: time-resolved ionization-induced refraction and Compton back-scattering.
E. De Wispelaere, V. Malka, J. R. Marquès, F. Amiranoff, F. Dorchies, P. Chessa, P. Mora, Ph. Mounaix, G. Grillon, E. Nibbering, 24th ECLIM Madrid, Spain, June 3-7, 1996.

26 Relativistic electromagnetic wave interaction with plasmas.
C. E. Clayton, P. Muggli, K. A. Marsh, D. Gordon, C. Joshi, Z. Najmidun, A. Modena, A. E. Dangor, V. Malka, American Physical Society (Denver) 41, 7, 1996.

25 Laser interaction with helium gas jet in the nanosecond laser pulse regime.
V. Malka, E. De Wispelaere, F. Amiranoff, R. Bonadio, C. Coulaud, S. Hüller, Ph. Mounaix, A. Modena, D. Puissant, C. Stenz, 24th ECLIM Madrid, Spain, June 3-7, 1996.

24 Stimulated Raman backscattering instability in short pulse laser interaction with helium gas.
V. Malka, E. De Wispelaere, J. R. Marquès, R. Bonadio, F. Amiranoff, F. Blasco, C. Stenz, Ph. Mounaix, G. Grillon, E. Nibbering, 24th ECLIM Madrid, Spain , June 3-7, 1996.

23 Acceleration to 44 MeV of electrons trapped in plasma waves generated by forward Raman scattering and wakefield action.
A. Modena, Z. Najmudin, and A. E. Dangor, C. E. Clayton, K. A. Marsh, W. B. Mori, C. Joshi, C. B. Darrow, V. Malka, C. N. Danson.
25th Annual Anomalous Absorption Conference, The Aspen Intitute, Colorado, USA, May 27-June 1, 1995.

22 Parametric Instabilities driven by short intense laser pulses in preformed underdense plasmas.
M. Casanova, G. Malka, J. L. Miquel, C. Rousseaux, Ph. Mounaix, F. Amiranoff, S. D. Baton, V. Malka.
25th Annual Anomalous Absorption Conference, The Aspen Intitute, Aspen, Colorado, USA, May 27-June 1, 1995.

21 Acceleration to 44 MeV of electrons trapped in plasma waves generated by forward Raman scattering and wakefield action.
A. Modena, Z. Najmudin, and A. E. Dangor, C. E. Clayton, K. A. Marsh, W. B. Mori, C. Joshi, C. B. Darrow, V. Malka, C. N. Danson.
Institute of Physics, Plasma Physics conference, Oxford, UK, April 1995.

20 Electron acceleration to 44 MeV in plasma waves by the Rutherford 35 TW single-frequency laser.
A. E. Dangor, A. Modena, Z. Najmudin, C. E. Clayton, K. A. Marsh, W. B. Mori, C. Joshi, C. B. Darrow, V. Malka, C. N. Danson. "IEEE Particle Accelerator Conference", May 1-5, 1995, Dallas, Texas., USA.

19 Observation of 44 MeV electrons generated by high-intensity subpicosecond laser irradiation of an underdense plasma.

C. B. Darrow, C. E. Clayton, K. A. Marsh, W. B. Mori, C. Joshi, A. E. Dangor, A. Modena, Z. Najmudin, V. Malka, D. Neely, C. N. Danson. "Second Canadian International Workshop on High-Field Laser Plasma Interaction Physics", February 22-25, 1995, Banff, Alberta., CANADA.

18 Ionisation et émission X d'un jet pulsé d'Argon irradié par des impulsions laser femtosecondes.
C. Stenz, F. Blasco, R. Brückner, F. Amiranoff, P. Audebert, E. De Wispelaere, J. P. Geindre, V. Malka, A. Dos Santos, G. Rey, A. Mysyrowicz, A. Antonetti. Annales de physique, Colloque C1, n°5, Vol. 19, Oct. 1994.

17 Interaction of ultra-high intensity short pulse laser probe with an underdense plasma.
A. E. Dangor, A. Modena, Z. Najmudin, C. N. Danson, P. Norreys, V. Malka, J.R. Marques, 23th ECLIM, Oxford, Oct.1994.

16 Femtosecond laser interaction with high-density gas jets.
C. Stenz, R. Bruckner, F. Blasco, F. Amiranoff, V. Malka, E. De Wispeleare, P. Audebert, J. P. Geindre, J. C. Gauthier, A. Dos Santos, A. Mysirowicz, A. Antonetti. "High field interactions and short wavelength generation", August 21-25, 1994 Saint-Malo.

15 Interaction of femtosecond Laser Pulse with High Pressure Gaz Jets.
C. Stenz, F. Blasco, F. Amiranoff, V. Malka, E. De Wispeleare, R. Bonadio, P. Audebert, J. P. Geindre, J. C. Gauthier, A. Dos Santos, A. Mysirowicz, A. Antonetti. "Anomalous Absorption Conference" 6-10 June 1994, Monterey, USA.

14 Femtosecond laser pulse ionisation and propagation in high pressure supersonic gas jet.
C. Stenz, R. Bruckner, F. Blasco, F. Amiranoff, V. Malka, E. De Wispeleare, P. Audebert, J. P. Geindre, J. C. Gauthier, A. Dos Santos, A. Mysirowicz, A. Antonetti. "Generation and application of ultrashort X-ray pulse", 10-13 March 1994, Salamanca (Espagne).

13 X-Ray emission from Ar induced by an intense femtosecond laser pulse.
P. Audebert, J. P. Geindre, J. C. Gauthier, F. Amiranoff, V. Malka, E. De Wispeleare, C. Stenz, R. Bruckner, F. Blasco, A. Dos Santos, A. Mysirowicz, A. Antonetti. "Generation and application of ultrashort X-ray pulse", 10-13 March 1994, Salamanca (Espagne).

12 Interazione di un impulso laser ai femtosecondi con un getto di gas ad alta pressione.
R. Bonadio, C. Stenz, R. Bruckner, F. Blasco, F. Amiranoff, V. Malka, E. De Wispeleare, A. Dos Santos. Società Italiana di Fisica, 26-30 octobre 1994, Legge. Italie.

11 Studio delle non-uniformità nelle esperienze di implosione al LULI.
M. Koenig, V. Malka, E. Fabre, P. Hammerling, A. Michard, J. M. Boudenne, P.
Fews, D. Batani, J. P. Garçonnet, Congrès de la S.I.F., 5-10 Octobre 1992, Pavia, Italie.

10 Planar acceleration by shock wave laser.
B. Faral, M. Koenig, V. Malka, J. M. Boudenne, D. Batani, S. Atzeni, in Proc. 22nd ECLIM, Paris 1993.

9 Non-Uniformités dans les expériences d'implosion à 0.26 μm.
M. Koenig, V. Malka, E. Fabre, P. Hammerling, A. Michard, J. M. Boudenne, P. Fews, D. Batani, J. P. Garçonnet, Congrès de la S.F.P., Nancy, Sept. 1992.

8 Recent results on implosion directly driven at 0.26 μm laser wavelength.
M. Koenig, V. Malka, E. Fabre, P. Hammerling, A. Michard, J. M. Boudenne, P. Fews, D. Batani, J. P. Garçonnet, 33th Annual Meeting of the Division of Plasma Physics, A.P.S., Tampa, Fl., U.S.A., Nov. 1991.

7 Recent results on implosion directly driven at 0.26 μm laser wavelength.
M. Koenig, V. Malka, E. Fabre, P. Hammerling, A. Michard, J. M. Boudenne, P. Fews, D. Batani, J. P. Garçonnet, 21th E.C.L.I.M., Varsovie, Oct. 1991.

6 Mesure de rendements hydrodynamiques dans les expériences d'implosion à 0.26 μm.
M. Koenig, V. Malka, E. Fabre, P. Hammerling, A. Michard, J. M. Boudenne, P. Fews, D. Batani, J. P. Garçonnet, Congrès de la S.F.P., Caen, Sept. 1991.

5 Hydrodynamic efficiency as determined from experiments at 0.26 μm.
M. Koenig, E. Fabre, V. Malka, P. Hammerling, A. Michard, J. M. Boudenne, P. Fews, S.P.I.E., La Haye, Mars 1991.

4 Radiation preheat and transport studies in thin foil targets.
J. Edwards, V. Barrow, D. Riley, O. Willi, Imperial College London UK, T. Afshar-Rad, S. Rose, R. Benattar, V. Malka, 18 th annual Anomalous Absorption Conference, l'Esterel Quebec, 27 juin - 1er juillet 1988.

3 Emission X-UV résolue temporellement de la face arrière de feuilles minces illuminées par laser.
R. Benattar, J. Godart, V. Malka, Congrés de la Société Française de Physique, Division Plasmas, Orsay 12-13 sept. 1988.

2 Time resolved backside emission in the X-UV range of laser illuminated thin foils.
R. Benattar et V. Malka, 19Th ECLIM Madrid 3-7 Oct. 1988.

1 X-UV backside emission of laser illuminated thin foils.
R. Benattar et V. Malka, Bull of the Am. Phys. Soc. 33, N°9, 1998 (1988), APS Meeting, Hollywood Florida, 31 oct.-4 nov. 1988.

Liste des Séminaires invités à l'étranger/ List of invited seminaries :

66 Manipulating Relativistic Electrons with Lasers
V. Malka, MLL Kolloquium, Garching, Germany, July 25 (2019)

65 Manipulating Relativistic Electrons with Lasers
V. Malka, Ben Gourion University, Israel, March 19 (2019)

64 Manipulating Relativistic Electrons with Lasers
V. Malka, Warsaw Université, October 27 (2017)

63 Manipulating Relativistic Electrons with Lasers
V. Malka, Lund Laser Center, Lund University, Sweden, June 2 (2017)

62 Manipulating Relativistic Electrons with Lasers
V. Malka, SFP/IOP Holweck prize ceremony, Rutherford Appleton Laboratory, UK, June 5 (2017)

61 Motivations of laser plasma accelerator for medical applications
V. Malka, WHELMI inauguration, WIS, Israel, April 26 (2017)

60 Manipulating Relativistic Electrons with Lasers
V. Malka, Julius Springer prize ceremony, Berlin, Germany, April 20 (2017)

59 Manipulating Relativistic Electrons with Lasers
V. Malka, Chalmers University, Sweden, June 22 (2016)

58 Manipulating Relativistic Electrons with Lasers
V. Malka, Osaka University, Japan, May 23 (2016)

57 Manipulating Electrons with Lasers
V. Malka, Hebrew University of Jerusalem, Israel, March 16 (2016)

56 Manipulating Electrons with Lasers
V. Malka, Refael, Israel, March 15 (2016)

55 Manipulating Electrons with Lasers
V. Malka, Tel-Aviv University, Israel, March 13 (2016)

54 Manipulating Electrons with Lasers
V. Malka, HZDR, Dresden, Germany, December 17 (2015)

53 Manipulating Electrons with Lasers
V. Malka, Technion, Haïfa, Israel, October 26 (2015)

52 Laser Plasma Accelerators
V. Malka, Ariel University, Israel, October 25 (2015)

51 Laser Plasma Accelerators
V. Malka, University of Heraklion, Crete, Grece, October 15 (2015)

50 Research and Innovation in Laser Plasma Accelerators
V. Malka, Technion, Haifa, Israel, April 1 (2015)

49 Laser plasma accelerators : principle and applications for biology and medicine
V. Malka, Weizmann Institute of Science, Department of BioSciences, Israel, March 29 (2015)

48 Laser plasma accelerators : principle, status and applications
V. Malka, ALBA, Barcelone, Spain, October 20 (2014)

48 High brightness electron and X-rays beam produced with Laser Plasma Accelerators
V. Malka, GSI, Darmstadt, Allemagne, May 27 (2014)

47 Research and Innovation in Laser Plasma Accelerators Technologies
V. Malka, Weizmann Institute of Sciences, Israel, February 4 (2014)

46 Laser Plasma Accelerators
V. Malka, Weizmann Institute of Sciences, Israel, December 5 (2013)

45 High brightness X-rays beam produced with Laser Plasma Accelerators
V. Malka, APRI-GIST, Corée, November 31 (2013)

44 High quality electrons beam produced with Laser Plasma Accelerators
V. Malka, APRI-GIST, Corée, November 31 (2013)

43 Laser Plasma Accelerators : from the basic principles to the applications
V. Malka, APRI-GIST, Corée, November 12 (2013)

42 Research and Innovation in Laser Plasma Accelerators Technologies
V. Malka, Tel-Aviv University, Israel, October 31 (2013)

41 Research and Innovation in Laser Plasma Accelerators Technologies
V. Malka, French Ambassy and French American Chamber of Commerce, Washington, USA August 12 (2013)

40 High Quality Electron and X-ray Beams with Laser plasma accelerators
V. Malka, Tata Institute, Mumbay (INDIA), March 26 (2013)

39 High Quality Electron and X-ray Beams with Laser plasma accelerators
V. Malka, Insitute For Plasma Research, Hamedabad (INDIA), March 28 (2013)

38 High Quality Electron and X-ray Beams with Laser plasma accelerators
V. Malka, IST-Lisbon Physics Department (DFIST) colloquia, March 13 (2013)

37 High Quality Electron and X-ray Beams with Laser plasma accelerators
V. Malka, Centro de Laseres Pulsados (CLPU), Salamanca, SPAIN, February 28 (2013)

36 Laser plasma accelerators : innovative electron and X-ray beams
V. Malka, Tel-Aviv University, Israel, December 2 (2012)

35 State of the Art of Laser Plasma Accelerators
Victor Malka, Academy Lecture, Romanian Academy of Sciences, Bucarest, Romania, October 24 (2012).

34 Laser plasma accelerators : innovative electron and X-ray beams
V. Malka, Ben Gourion University, Israel, December 4 (2012)

33 Overview of Laser plasma accelerators
V. Malka, INFN, Frascati (Italy), June 7 (2012)

32 Ultra brigth X rays beams Produced with Laser plasma accelerators
V. Malka, INFN, Frascati (Italy), June 7 (2012)

31 Laser plasma accelerators
V. Malka, Tata Institute, Mumbay (INDIA), January 6 (2012)

30 Laser plasma accelerators : principle and applications
V. Malka
HH-IFIN, Bucarest, April 26 (2011)

29 State of the Art of Laser Plasma Accelerators.
V. Malka
Lund University, Sweden, April 4 (2011).

28 High current electron beam produced by Laser plasma accelerators
V. Malka
Tata Institut of Mumbay, India, February 24 (2011).

27 High quality electron beam delivered by laser plasma accelerators
V. Malka
IPR, Ahmeddab, India, February 23 (2011).

26 Laser plasma accelerators : status, applications and perspectives
V. Malka
Colloquium PMRC, Nara, Japan, March 27 (2010).

25 Laser plasma accelerators : principles and applications
V. Malka
Tata Institut of Mumbay, India, January 6 (2010).

24 Laser plasma accelerators : status, applications and perspectives
V. Malka
Université de Milan, Italie, Nov 30 (2009).

23 Laser plasma accelerators : status, applications and perspectives
V. Malka
Princeton Plasma Physics Laboratory, Princeton, New Jersey, USA, May 21 (2008).

22 Electrons acceleration in laser produced plasmas
V. Malka, International School of Quantum Electronics, Atoms and Plasmas in Super Intense Laser Fields Erice-Sicily, 10 - 16 July 2009.

21 Laser plasma accelerators : status, applications and perspectives
V. Malka
Inter University Accelerator Centre (IUAC), Delhi, INDIA, May 10 (2008).

20 Laser plasma accelerators : status, applications and perspectives
V. Malka
Bhabha Atomic research Centre (BARC), Mumbai, May 17 (2008).

19 Laser plasma accelerators : status, applications and perspectives
V. Malka
Saha Institute of Nuclear Physic (SINP), Calcutta, May 15 (2008).

18 Laser plasma accelerators : status, applications and perspectives
V. Malka
Tata Institute of Fundamental Research (TIFR), Mumbai, May 16 (2008).

17 Laser plasma accelerators : status, applications and perspectives
V. Malka
Raja Ramanna Centre for Advanced Technology (RRCAT), Indore, May 17 (2008).

16 Laser plasma accelerators : status, applications and perspectives
V. Malka
John Adams Institute, Oxford, UK, January 10, 2008.

15 Laser plasma accelerators

V. Malka
University of Bologna, Italy, January 08, 2008.

14 Laser plasma accelerators : status, applications and perspectives
V. Malka
Hebrew University of Jerusalem, Israel, April 17, 2007.

13 Laser plasma accelerators : principle and applications
V. Malka
Milan, March 14, 2007.

12 Laser plasma accelerators : status, applications and perspectives
V. Malka
Frascati, March 7, 2006.

11 Laser plasma accelerators
V. Malka
Jena Institut, Germany, November 21, 2005.

10 Laser plasma accelerators : status and applications
V. Malka
Darmstadt University, November 23, 2005.

9 Laser plasma accelerator concept
V. Malka
INFN, Milan, Italy, May 24, 2005.

8 Medical applications of laser based particle beam.
V. Malka
Fox Chase Cancer Center, Madison, PA, USA, May 19, 2005.

7 Status of Laser Plasma Accelerator.
V. Malka
Milan Bicocca University, Italy, February 16, 2005.

6 On the use of gas jet for laser plasma interaction.
V. Malka
Tsukuba University, JAPAN, January 12, 1999.

5 On the use of gas jet for laser plasma accelerator.
V. Malka
Tsukuba University, JAPAN, January 14, 1999.

4 Laser gas and gas-jet interaction in the subpicosecond regime.
V. Malka
UCLA (CA), USA, September 3, 1996.

3 Laser gas-jet interaction in the nanosecond regime.
V. Malka
UCLA (CA), USA, September 3, 1996.

2 Electron acceleration in laser plasma interaction : principles and experimental results.
V. Malka
Essex University, UK, Dec. 5, 1995.

1 Wake-field and relativistic self-focusing experiments with femtosecond lasers.
V. Malka
Université de Milan, 2 Mars 1994.

Liste des Séminaires « Invité » en France/ list of invited seminaries in France :

30 Manipulating Relativistic Electrons with Lasers
V. Malka, Journée Scientifique de l'ED 352, Marseille, Juin 13 (2019)

29 Manipulating Relativistic Electrons with Intense Laser Pulses
V. Malka, Séminaire du Département de Physique, ENS Cachan, France, 7 Mars (2017)

28 Manipulating Relativistic Electrons with Intense Laser Pulses
V. Malka, Séminaire du Département de Physique, Ecole Polytechnique, 5 janvier (2017)

27 Les accélérateurs à plasma laser
V. Malka, Schlumberger, Clamart, 11 Février (2014)

26 Principe et applications des accélérateurs à plasma laser
V. Malka, ENS ULM, Janvier 14 (2014)

25 Laser Plasma Accelerators
V. Malka, Laboratoire Charles Fabry, IOGS, Palaiseau, Octobre 10 (2013)

24 Principe et applications des accélérateurs à plasma laser
V. Malka, ENS ULM, Février 12 (2013)

23 Physique et applications des accélérateurs à plasma laser
V. Malka, Institut ISMO, Université de Paris Sud, 7 Juin (2011)

22 Principe et applications des accélérateurs à plasma laser
V. Malka, Ecole polytechnique, Nov. 13 (2009)

21 Principe et applications des accélérateurs à plasma laser
V. Malka, Master international SERP Chem, Nov. 27 (2009)

20 Etat de l'art, principe et applications des accélérateurs à plasma laser
V. Malka, ENS, Nov. 05 (2009)

19 Physique de l'accélération laser plasma
V. Malka, Triangle de la Physique, Ecole Polytechnique, Oct. 20 (2009)

18 Les accélérateurs laser plasma : principe et applications
Victor Malka, IRFU, Saclay, 27 Avril 2009.

17 Les accélérateurs laser plasma : principe et applications
Victor Malka, CELIA, Bordeaux, 5 février 2009.

16 Etat de l'art, principe et applications des accélérateurs à plasma laser
V. Malka, Institut d'Optique, 6 Janvier (2009)

15 Les accélérateurs laser plasma : applications à la radiographie g.
Victor Malka, Journée Messier Bugatti, Ecole polytechnique, 2 Décembre 2008.

14 Les accélérateurs laser plasma : principe et applications
Victor Malka, CNSM, Orsay, 27 Novembre 2008.

13 Les accélérateurs laser plasma : applications à la radiographie g
Victor Malka, Ecole Polytechnique, Palaiseau, 2 décembre 2008.

12 Les accélérateurs laser plasma

Victor Malka, Ecole Polytechnique, Palaiseau, 26 Février 2008.

11 Les accélérateurs laser plasma
Victor Malka, Journées X-ENS-UPS de Physique, ENS Paris 9-11 mai 2007

10 Les accélérateurs laser plasma
Victor Malka, CEA, Bruyeres le Chatel, 20 Février 2007.

9 Les acclérateurs laser plasma : vers de nouvelles sources compactes de particules et de rayonnement
Victor Malka, Séminaire Daniel Dautreppe, Grenoble, 25-29 septembre 2006.

8 Les acclérateurs laser plasma : concept et applications
Victor Malka
ESFR, Grenoble, 6 avril 2006.

7 L'accélération laser plasma : vers de nouvelles sources compactes de particules
Victor Malka, LPNHE, Paris, 27 janvier 2005.

6 L'accélération laser de particules : les nouvelles sources de particules
Victor Malka, Conférence / débat , LAL, Université d'Orsay 23 septembre 2004.

5 Etat de l'art et perspectives de l'accélération de particules en milieu plasmas
V. Malka, LLR, workshop on « Applications des lasers à très hautes intensités à la physique des Hautes Energies ».
Ecole Polytechnique, 17-18 août 2004.

4 Des champs électriques records pour les accélérateurs du futur.
V. Malka, Séminaire de Physique, Ecole Polytechnique, Palaiseau, 29 septembre 2004.

3 Production de faisceaux de particules énergétiques par laser, resultants et perspectives.
V. Malka, LLR, Ecole Polytechnique, 13 Mai 2002.

2 Application des faisceaux de particules produits par laser.
V. Malka, CEA Bruyeres le Châtel, 29 Avril 2002.

1 Application des lasers multi-TW à la production de faisceaux de particules.
V. Malka, Institut de Physique Nucléaire, Orsay, 25 Mars 2002.