

CURRICULUM VITAE SINTETICO DI LEONIDA A. GIZZI

INDIRIZZO e CONTATTI

CONSIGLIO NAZIONALE DELLE RICERCHE
ISTITUTO NAZIONALE DI OTTICA - INO-CNR - AREA DELLA RICERCA
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POSIZIONE ATTUALE

Primo Ricercatore presso l'Istituto Nazionale di Ottica (INO) – del CNR, Pisa
Ricercatore associato INFN - Sezione di Pisa
Responsabile del Laboratorio di Irraggiamento Laser Intensi - ILIL

Laureato in Fisica presso l'Università di Pisa nel 1989, ottiene il Ph.D. in Fisica presso l'Imperial College of Science, Technology and Medicine (Londra, GB) nel 1994. È fisico sperimentale con competenze nel settore dei laser di alta potenza, dell'interazione laser-materia ad altissime intensità e della diagnostica di plasmi, con riferimento ai plasmi per l'accelerazione di particelle, per le sorgenti di raggi X e γ , per la fusione nucleare e le applicazioni alla medicina.

Su queste tematiche il sottoscritto ha avuto responsabilità di coordinamento e ruoli di principal investigator in oltre 20 tra progetti Europei e Nazionali dedicati alla fisica dell'interazione laser-materia ad altissime intensità e, a partire dal 2003, allo sviluppo dell'accelerazione laser-plasma di particelle. Grazie ai risultati ottenuti con questi progetti, il laboratorio ILIL di Pisa (diretto dal sottoscritto) oggi è oggi tra i principali laboratori europei per la fisica con i laser ultraintensi e dell'accelerazione laser-plasma ed è nodo del Network Europeo sugli Acceleratori Innovativi (Euronac) e partner del Progetto di Infrastruttura Europea (H2020) di Accelerazione a Plasma (EuPRAXIA).

Leonida A. Gizzi è autore di oltre 250 pubblicazioni censite dai principali database di pubblicazioni (ISI WOS, SCOPUS), comprendenti oltre 170 pubblicazioni su riviste con referee internazionale. Le sue pubblicazioni hanno raccolto circa 4500 citazioni bibliografiche con H-index google scholar pari a 34 e H-index ISI WOS pari a 28. È stato relatore di oltre 50 presentazioni orali e su invito a congressi internazionali. È stato membro di Advisory e Programme committee di numerose conferenze internazionali e co-editor di riviste internazionali. È stato chair della Sezione "Beam Plasma and Inertial Fusion" dell'European Physical Society. È referee delle principali riviste internazionali e dal 2008 è stato riconosciuto "Outstanding Referee" dall'American Physical Society.

Pisa, 18/04/2017

Firma



Firma

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18/04/2017

Gian Carlo Bussolino - Curriculum

Nato a Torino (TO), Il 1° Ottobre 1956

matricola 28003

inquadrato nel livello III profilo **Ricercatore** (Dipendente a T.I.)

In servizio presso: Istituto Nazionale di Ottica (INO CNR), sede secondaria di Pisa, via Moruzzi 1, Area della Ricerca del CNR, PISA.

Attività nel laboratorio denominato "Laboratorio di Irraggiamento con Laser Intensi" (ILIL).

Attività scientifiche precedenti: Proprietà termofisiche dei materiali, Strumentazione per misure ad alta temperatura, Metrologia applicata nel settore delle temperature e delle proprietà termiche.

Attività scientifiche principali attuali: Attività di fisica sperimentale nel settore della generazione di particelle da plasmi ottenuti dall'interazione laser-materia ad alta intensità.

Competenze principali: Fotonica degli alti campi, Acquisizione dati, Simulazione agli elementi finiti, Metrologia, Proprietà dei materiali ad alte temperature.

Esperimenti/Studi teorici a cui partecipa:

Accelerazione laser-plasma di elettroni e sorgenti secondarie di radiazione Compton.

Amplificazione e misura di impulsi Laser Ultraindensi (ILIL-PW).

Caratterizzazione e diagnostica di target gassosi in esperimenti laser-plasma mediante tecniche interferometriche.

Dosimetria e radiobiologia con fasci di elettroni relativistici accelerati mediante laser.

Esperimenti di accelerazione di elettroni mediante laser e sviluppo di diagnostiche di fascio presso il laboratorio ILIL.

Micro/nano lavorazione laser.

Progetti di ricerca finanziati a cui partecipa:

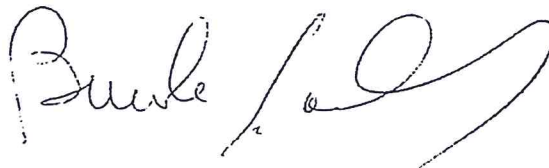
Extreme Light Infrastructure (ELI).

Responsabilità:

Tecnico Sicurezza Laser (TSL) per la sede dell'INO di Pisa.

Responsabile delle Infrastrutture nell'upgrade del laboratorio ILIL-PW.

Pisa, 28 Giugno 2017



Europass Curriculum Vitae



Personal information

Surname(s) / First name(s)

Labate / Luca Umberto

Nationality(-ies)

Italian

Date of birth

December 30, 1971

Place of birth

Reggio Calabria, Italy



title

Dr.

Sex

Male

Addresses

Home: via San Michele degli Scalzi 123 - 56124 Pisa, Italy

Office: Istituto Nazionale di Ottica, Consiglio Nazionale delle Ricerche (CNR),
CNR Research Area, via Moruzzi 1 - 56124 Pisa, Italy

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Phone numbers

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Education

2004: PhD in Physics, University of Bologna, Italy

PHD THESIS TITLE: *Progress in laser-plasma X-ray sources: time-resolved spectroscopic studies and applications to μ -imaging*

THESIS ADVISORS: dr. L. A. Gizzi (Consiglio Nazionale delle Ricerche, Pisa) and dr. G. Di Cocco (Istituto Nazionale di Astrofisica, Bologna)

2000: M.Sc. (Laurea Magistrale) in Physics, University of Pisa, Italy

M.SC. THESIS TITLE: *Spettroscopia di riga con risoluzione spaziale dell'emissione X di plasmii prodotti da laser*

THESIS ADVISOR: prof. D. Giulietti (University of Pisa, Italy).

Positions

Current

since November 2, 2011: permanent staff researcher at the Istituto Nazionale di Ottica, Consiglio Nazionale delle Ricerche (CNR), Pisa, Italy

Past

since February 1, 2010: researcher (term position) at the Istituto Nazionale di Ottica, Consiglio Nazionale delle Ricerche (CNR), Pisa, Italy

February 1, 2007 - January 31, 2010: researcher (term position) at the Istituto per i Processi Chimico-Fisici, Consiglio Nazionale delle Ricerche (CNR), Pisa, Italy, for a scientific activity in the field of the *Development of a high power nanosecond laser system with large bandwidth and controllable temporal profile*

November 1, 2006 - January 31, 2007: post-doc research grant (art. 2222 Italian Civil Code) from the Laboratori Nazionali di Frascati, Istituto Nazionale di Fisica Nucleare (INFN), Frascati, Italy

October 1, 2006 - December 31, 2006: post-doc research grant (art. 2222 Italian Civil Code) from the Istituto per i Processi Chimico-Fisici, Consiglio Nazionale delle Ricerche (CNR), Pisa, Italy (research activity on *Study of the X-ray emission from laser plasmas and of FEL produced X-ray radiation in the framework of the SPARX project*)

August 1, 2005 - July 31, 2006: post-doc research grant (art. 2222 Italian Civil Code) from the Laboratori Nazionali di Frascati, Istituto Nazionale di Fisica Nucleare (INFN), Frascati, Italy

February 1, 2006 - December 31, 2006: research associate at the Istituto per i Processi Chimico-Fisici, Consiglio Nazionale delle Ricerche (CNR), Pisa, Italy

May 2005 - December 2005: research associate at the Istituto per i Processi Chimico-Fisici, Consiglio Nazionale delle Ricerche (CNR), Pisa, Italy

April 2005: grant from the Istituto per i Processi Chimico-Fisici, Consiglio Nazionale delle Ricerche (CNR), Pisa, Italy for the *Migration of an MPI parallel PIC code for laser-plasma simulation to a Linux cluster*

April 1, 2004 - March 31, 2005: post-doc research grant from the Istituto per i Processi Chimico-Fisici, Consiglio Nazionale delle Ricerche (CNR), Pisa, Italy for the *Study of the X-ray emission from ultrashort and ultraintense laser plasmas*

May 1, 2003 - February 29, 2004: research grant from the Istituto per i Processi Chimico-Fisici, Consiglio Nazionale delle Ricerche (CNR), Pisa, Italy for the *Development of X-ray sources from laser-plasmas and X- and γ -ray detectors*

2003-2010: teaching assistant for the courses of Quantum Optics and Laboratory of Quantum Optics at the Department of Physics, University of Pisa, Italy

October 1, 2002 - April 30, 2003: research fellow from the Institut für Optik und Quantenelektronik, Friedrich-Schiller-Universität, Jena, Germany

October 1, 2001 - September 30, 2002: research grant from the Istituto per i Processi Chimico-Fisici, Consiglio Nazionale delle Ricerche (CNR), Pisa, Italy for the *Development of X-ray sources from laser plasmas and X- and γ -ray detectors*

September 2001: grant from the Istituto per i Processi Chimico-Fisici, Consiglio Nazionale delle Ricerche, Pisa, Italy for the *Project of a monochromator for laser-plasma X-ray radiation*

2001 - 2004: PhD student, University of Bologna, Italy

Languages

Mother tongue(s)

*Self-assessment
European level⁽¹⁾*

English

French

Italian

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
C1 Proficient user	C2 Proficient user	C1 Proficient user	C2 Proficient user	C2 Proficient user
B1 Independent user	B2 Independent user	A1 Basic user	A1 Basic user	A1 Basic user

⁽¹⁾ Common European Framework of Reference (CEF) level

Main scientific interests

- Ultrashort and/or ultraintense laser-matter interaction
- Optics of short and ultrashort lasers
- Laser-driven electron acceleration and X/γ secondary sources
- Laser-driven proton acceleration
- Experimental issues involved in the design, commissioning and operational management of small and medium scale laser facilities
- Medical applications of novel concept (laser-driven) electron accelerators
- Numerical simulations of (short/ultrashort) laser pulse generation and beam transport/focusing
- Advanced optical/X-ray diagnostics of laser-plasmas
- Laser-matter interaction in Inertial Confinement Fusion relevant regimes (plasma instabilities, fast electron transport, etc.)
- Numerical simulations of laser-plasma interaction (using hydro and PIC codes) and particle transport/interaction (Monte Carlo GEANT4 code)

Computer skills

Operating systems: Linux (preferred), Windows, MacOS

Programming languages: C/C++ (excellent), LabView® (very good), Bash shell scripting (very good), Mathematica® programming (good)

Scientific libraries: CUDA (parallel programming on GPUs), GEANT4, GSL - Gnu Scientific Library, FFTW (Fast Fourier Transform)

Scientific software: LabView®, Mathematica®, Gnuplot, Paraview, MIRO (simulation of optics and laser systems), gUPPE (simulation framework for femtosecond nonlinear optics), MatLab®/Octave,

Other software: LaTeX, OpenOffice/LibreOffice, Microsoft Office

Other: Arduino programming, QT library (C++ graphics/GUI library), Boost Asio library (C++ library for network and low-level I/O programming), Apache (web server) configuration

Teaching, awards and other scientific activities

▷ H-index (according to the *SCOPUS* database as of February 2017): 18

▷ Referee for the following journals: *Applied Optics*, *Applied Physics B*, *Chinese Optics Letters*, *Europhysics Letters*, *Journal of Physics B - At. Mol. Opt. Phys.*, *Journal of Physics D - Applied Physics*, *High Power Laser Science and Engineering*, *Laser Part. Beams*, *New Journal of Physics*, *Nucl. Instrum. Meth. Phys. Res. A*, *Nucl. Instrum. Meth. Phys. Res. B*, *Nuclear Fusion*, *Optics Express*, *Phys. Rev. E*, *Phys. Rev. Lett.*, *Plasma Phys. Controlled Fusion*, *Rev. Sci. Instrum.*, *Scientific Reports*

▷ Since 2011 he is in charge of the laser systems hosted at the Intense Laser Irradiation Laboratory of the National Institute of Optics of the CNR (INO-CNR) (the laboratory features, among others, a 10TW TiSa systems currently being upgraded to the 250TW level)

▷ August 2011: winner of a public call for a permanent position as researcher in the field of physics at Consiglio Nazionale delle Ricerche

▷ 2011: he received a funding of 540k€ (total project cost 747k€) from the Italian Ministry of Health through the call for projects "Giovani Ricercatori" ("Young Researchers"), for a project in the field of medical applications of laser-driven electron beams

Participation in/responsibility of scientific projects

- ▷ since 2016 he acts as reviewer for projects funded by the Italian National Institute of Nuclear Physics (INFN) (through the CNS5)
- ▷ Evaluator for a PhD thesis in the field of laser-driven particle acceleration, discussed in the academic year 2016-2017 at the University of Messina (Italy)

- ▷ Supervisor of the PhD thesis work of the student Naveen C. Pathak (PhD program in Physics at the Department of Physics of the University of Pisa, final thesis title *Laser pulse propagation in plasmas and its implication of frequency upshift and electron acceleration*, discussed on June 2011)
- ▷ Since 2007 he has served several times as a member of the examining board for the assignment of research grants in the field of laser-plasma interaction by the Consiglio Nazionale delle Ricerche
- ▷ Since 2007 he is associated ("associazione scientifica") with the Pisa Section of the Italian National Institute of Nuclear Physics (INFN)
- ▷ He was awarded for the 2nd best presentation in the Section "Biophysics and Medical Physics" at the 100th national congress of the Italian Society of Physics (SIF), held in 2014
- ▷ He acted as scientific responsible of 4 post-doc research grants assigned in the years 2013-2015 for research activities in the field of laser-driven electron acceleration
- ▷ He acted as scientific responsible for a post-doc research grant assigned since 01/11/2012 to 31/10/2014 for a scientific activity in the field of optics of ultrashort lasers
- ▷ "Outstanding referee" for the review *Rev. Sci. Instrum.* in the year 2010
- ▷ Responsible for the operational management of the 250TW laser system and responsible for the laser beam modelling, control, diagnostics and focusing in the Target Area of the "FLAME (Frascati Laser for Acceleration and Multidisciplinary Experiments)" laboratory, during its commissioning phase at the Laboratori Nazionali di Frascati in the framework of the INFN (Istituto Nazionale di Fisica Nucleare) strategic project "PLASMONX (Plasma Acceleration and Monochromatic X-ray generation)"
- ▷ Research fellow at the Institut für Optik und Quantenelektronik of the Friedrich-Schiller-Universität, Jena (Germany), from 01/12/2012 to 30/04/2013

- ▷ Scientific coordinator of the CNR - Pisa unit for the project "Preclinical Tool for Advanced Translational Research with Ultrashort X-ray Pulses" funded by the Italian Ministry of Research through the call MIUR PRIN2015 (the project is expected to last from 2017 to 2019)
- ▷ Participation as "WP expert" to the WP4 ("Laser design and optimization") and participation to the WP3 ("High gradient laser plasma acceleration bunches") of the European project "EuPRAXIA", aimed at producing a CDR for a laser-driven accelerator and FEL (funded in the framework of the H2020 program)
- ▷ Principal Investigator of the project *Study of radiobiological and radiotherapeutic effects of a novel laser driven electron accelerator*, funded by the Italian Ministry of Health in the call "Giovani Ricercatori 2009" (total budget k€ 747, total funding from the Ministry of Health k€ 540), project duration February 2012 - January 2016
- ▷ Scientific coordinator of the INFN - Pisa unit for the INFN project "SiCilia" (expected project duration 01/01/2016 - 31/12/2018)
- ▷ Work Package 5 ("Radiobiological Testing Facility") leader within the INFN CNS5 experiment "L3IA - Line for Laser Light Ions Acceleration", started in 2016

Most relevant experiences abroad

- ▷ Scientific Coordinator for the Italian participation to the Joint Research Activity "European Research Objectives on Lasers for Industry, Technology and Energy (EURO-LITE)" in the framework of the EC project "LASERLAB Europe" (June 2012 - November 2015, total funding allocated for Italy k€40)
- ▷ WP2 ("Laser-plasma diagnostic") leader in the years 2014-2015 for the INFN project "PLASMAMED"
- ▷ Scientific coordinator of the project *AdOpRad - R&D of innovative wavefront sensors and adaptive optics for laser-driven radiological devices*, funded by the Tuscany Region (project duration 01/11/2012 - 31/10/2014)
- ▷ Participation to the project *BLISS - broadband laser for ICF strategic studies* from 01/02/2007 to 31/01/2011, funded by the Italian Ministry of Research (FIRB RBNE03N48B)
- ▷ Scientific Coordinator for the Italian side of the Executive Program of Cooperation in the Field of Science and Technology between Italy and Japan on the *Study of laser pulse guiding conditions for laser-plasma acceleration* (years 2008 and 2009)

Participation to conferences as invited speaker

- ◊ October 2002 to April 2003: research fellow at the Institut für Optik und Quantenelektronik, Friedrich-Schiller-Universität, Jena, Germany
- ◊ since 2000 he took part to more than 20 long lasting (> 2 weeks) experiments in France, Germany, UK, Czech Republic, Japan

- Advanced Summer School on "Laser-Driven Sources of High Energy Particles and Radiation", to be held in Capri, Italy on 9-16 July 2017. Lectures on *Ultrafast, intense laser pulse diagnostics*
- EXTATIC welcome week 2017, Trieste, Italy, 16-20 January 2017. Title of the talk: *Laser-driven electron acceleration and secondary X/γ-ray sources*
- 3rd ELIMED workshop on Medical and multidisciplinary applications of laser-driven ion beams at ELI-Beamslines, Catania, Italy, 7-10 September 2016. Title of the talk: *Line for Laser-driven Light Ions Acceleration (L3IA) at ILIL and related TNSA studies*
- International Conference on High Energy Density Sciences 2015, Yokohama, Japan, 22-24 April 2015. Title of the talk: *A small-scale laser-driven electron accelerator for radiobiology experiments at ILIL-CNR*
- FisMat2015, Palermo, Italy, September 28 - October 2, 2015. Title of the talk: *Role of laser polarization on stable injection of laser-plasma acceleration at high dose for radiobiology applications*
- SPIE Optics+Optoelectronics 2013 Conference, Prague, Czech Republic, April 15-18, 2013. Title of the talk: *Small-scale laser based electron accelerators for biology and medicine: a comparative study of the biological effectiveness*
- 17th International Conference on Atomic Processes in Plasmas, 19-22 July 2011, Belfast (UK). Title of the talk: *X-ray spectroscopy and charged particles with small-scale lasers*
- 4th International Conference on Superstrong Fields in Plasmas, Varenna, Italy, September 3-9, 2010. Title of the talk: *PLASMONX project: the FLAME laser and the test experiment at LNF-INFN*

Peer-reviewed publications

2016

- L. Labate, P. Ferrara, L. Fulgentini, L. A. Gizzi, *Effects of small misalignments on the intensity and Strehl ratio for a laser beam focused by an Off-Axis Parabola*, Appl. Opt. **55**, 6506-6515 (2016)
- M. G. Andreassi, A. Borghini, S. Pulignani, F. Baffigi, L. Fulgentini, P. Köster, M. Cresci, C. Vecoli, D. Lamia, G. Russo, D. Panetta, M. Tripodi, L. A. Gizzi, L. Labate, *Radiobiological effectiveness of ultrashort laser-driven electron bunches: micronucleus frequency, telomere shortening and cell viability*, Rad. Res. **186**, 245-253 (2016)
- L. Labate, M. G. Andreassi, F. Baffigi, R. Bizzarri, A. Borghini, G. C. Bussolino, L. Fulgentini, F. Ghetti, A. Giulietti, P. Köster, D. Lamia, T. Levato, Y. Oishi, S. Pulignani, G. Russo, A. Sgarbossa, L. A. Gizzi, *LESM: a laser-driven sub-MeV electron source delivering ultra-high dose rate on thin biological samples*, J. Phys. D - Appl. Phys. **49**, 275401 (2016)
- D. Palla, F. Baffigi, F. Brandi, L. Fulgentini, P. Köster, L. Labate, P. Londrillo, L. A. Gizzi, *Comparison of self-injection thresholds in He and N₂ and role of self-focusing in LWFA*, Nucl. Instrum. Meth. Phys. Res. A **829**, 408-412 (2016)
- C. Altana, A. Muoio, G. Lanzalone, S. Tudisco, F. Brandi, G. A. P. Cirrone, G. Cristoforetti, A. Fazzi, P. Ferrara, L. Fulgentini, D. Giove, P. Köster, L. Labate, D. Mascali, D. Palla, F. Schillaci, L. A. Gizzi, *Investigation of ion acceleration mechanism through laser-matter interaction in femtosecond domain*, Nucl. Instrum. Meth. Phys. Res. A **829**, 159-162 (2016)
- L. A. Gizzi, C. Altana, F. Brandi, P. Cirrone, G. Cristoforetti, A. Fazzi, P. Ferrara, L. Fulgentini, D. Giove, P. Köster, L. Labate, G. Lanzalone, P. Londrillo, D. Mascali, A. Muoio, D. Palla, F. Schillaci, S. Sinigardi, S. Tudisco, G. Turchetti, *Role of laser contrast and foil thickness in target normal sheath acceleration*, Nucl. Instrum. Meth. Phys. Res. A **829**, 144-148 (2016)
- S. Tudisco, C. Altana, G. Lanzalone, A. Muoio, G. A. P. Cirrone, D. Mascali, F. Schillaci, F. Brandi, G. Cristoforetti, P. Ferrara, L. Fulgentini, P. Köster, L. Labate, D. Palla, L. A. Gizzi, *Investigation on target normal sheath acceleration through measurements of ions energy distribution*, Rev. Sci. Instrum. **87**, 02A909 (2016)

2015

- N. Booth, A. P. L. Robinson, P. Hakel, R. J. Clarke, R. J. Dance, D. Doria, L. A. Gizzi, G. Gregori, P. Köster, L. Labate, T. Levato, B. Li, M. Makita, R. C. Mancini, J. Pasley, P. P. Rajeev, D. Riley, E. Wagennars, J. N. Waugh, N. C. Woolsey, *Laboratory measurements of resistivity in warm dense plasmas relevant to the microphysics of brown dwarf*, Nature Commun. **6**, 8742 (2015)
- P. Köster, G. C. Bussolino, G. Cristoforetti, A. Faenov, A. Giulietti, D. Giulietti, L. Labate, T. Levato, T. Pikuz, L. A. Gizzi, *High-charge divergent electron beam generation from a high-intensity laser interaction with a gas-cluster target*, Laser Part. Beams **33**, 331-338 (2015)
- A. Anastasia, D. Babusci, F. Baffigi, G. Cantatore, D. Cauz, G. Corradia, S. Dabagov, G. Di Sciascio, R. Di Stefano, C. Ferrari, A. T. Fienberg, A. Fioretti, L. Fulgentini, C. Gabbanini, L. A. Gizzi, D. Hampai, D. W. Hertzog, M. Iacovacci, M. Karuza, J. Kaspar, P. Köster, L. Labate, S. Mastroianni, D. Moricciani, G. Pauletta, L. Santi, G. Venanzoni, *Test of candidate light distributors for the muon ($g - 2$) laser calibration system*, Nucl. Instrum. Meth. Phys. Res. A **788**, 43-48 (2015)
- L. A. Gizzi, L. Labate, F. Baffigi, F. Brandi, G. C. Bussolino, L. Fulgentini, P. Köster, D. Palla, F. Rossi, *Laser-plasma acceleration of electrons for radiobiology and radiation sources*, Nucl. Instrum. Meth. Phys. Res. B **355**, 241-245 (2015)

2014

- L. Labate, *A laser-driven electron accelerator for radiobiology experiments*, Nuovo Cimento C **38**, 76 (2015)
- D. Lamia, G. Russo, C. Casarino, L. Gagliano, G. C. Candiano, L. Labate, F. Baffigi, L. Fulgentini, A. Giulietti, P. Köster, D. Palla, L. A. Gizzi, M. C. Gilardi, *Monte Carlo application based on GEANT4 toolkit to simulate a laser-plasma electron beam line for radiobiological studies*, Nucl. Instrum. Meth. Phys. Res. A **786**, 113-119 (2015)
- P. Köster, N. Booth, C. A. Cecchetti, H. Chen, R. G. Evans, G. Gregori, L. Labate, T. Levato, Bin Li, M. Makita, J. Mithen, C. D. Murphy, M. Notley, R. Pattathil, D. Riley, N. Woolsey, L. A. Gizzi, *Evidence of locally enhanced target heating due to instabilities of counter-streaming fast electron beams*, Phys. Plasmas **22**, 020701 (2015)
- J. Badziak, L. Antonelli, F. Baffigi, D. Batani, T. Chodukowski, G. Cristoforetti, R. Dudzak, L. A. Gizzi, G. Folpini, F. Hall, Z. Kalinowska, P. Koester, E. Krousky, M. Kucharik, L. Labate, R. Liska, G. Malka, Y. Maheut, P. Parys, M. Pfeifer, T. Pisarczyk, O. Renner, M. Rosinski, L. Ryc, J. Skala, M. Smid, C. Spindloe, J. Ullschmied, A. Zaráš-Szydłowska, *Studied of ablated plasma and shocks produced in a planar target by a sub-nanosecond laser pulse of intensity relevant to shock ignition*, Laser Part. Beams **33**, 561-575 (2015)
- Y. Oishi, D. Giulietti, F. Baffigi, L. Fulgentini, A. Giulietti, P. Köster, L. Labate, M. Kando, L. A. Gizzi, *Focusing and stabilizing laser-plasma-generated electron beams with magnetic devices*, Japan. J. Appl. Phys. **53**, 092702 (2014)
- G. Cristoforetti, A. Anzalone, F. Baffigi, G. Bussolino, G. D'Arrigo, L. Fulgentini, A. Giulietti, P. Köster, L. Labate, S. Tudisco, L. A. Gizzi, *Investigation on laser-plasma coupling in intense, ultrashort irradiation of a nanostructured silicon target*, Plasma Phys. Controll. Fusion **56**, 095001 (2014)
- S. Agosteo, M. P. Anania, M. Caresana, G. A. P. Cirrone, C. De Martinis, D. Delle Side, A. Fazzi, G. Gatti, D. Giove, D. Giulietti, L. A. Gizzi, L. Labate, P. Londrillo, M. Maggiore, V. Nassisi, S. Sinigardi, A. Tramontana, F. Schillaci, V. Scuderi, G. Turchetti, V. Varoli, L. Velardi, *The LILIA (laser induced light ions acceleration) experiment at LNF*, Nucl. Instrum. Meth. Phys. Res. B **331**, 15-19 (2014)
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