

List of Publications:

SELECTED PEER-REVIEWED PUBLICATIONS:

1. *Experimental observation of thin-shell instability in a collision-less plasma*
A. Hamad *et al.*, *Astrophysical Journal Letters* **834**, L21 (2017)
2. *Generation of neutral and high-density electron-positron pair plasmas in the laboratory*
G. Sarri *et al.*, *Nat. Commun.* **6**, 6747 (2015).
3. *Particle-In-Cell simulation study of the interaction between a relativistically moving leptonic micro-cloud and ambient electrons*
M. E. Dieckmann *et al.*, *Astronomy and Astrophysics* **577**, A137 (2015).
4. *Ultrahigh brilliance multi-MeV gamma-ray beams from nonlinear relativistic Thomson scattering*
G. Sarri *et al.*, *Phys. Rev. Lett.* **113**, 224801 (2014).
5. *A table-top laser-based source of femtosecond, collimated, ultra-relativistic positron beams*
G. Sarri *et al.*, *Phys. Rev. Lett.* **110**, 255002 (2013). **SYNOPSIS FOR PRL 2013**
6. *Time-resolved characterization of the formation of a collisionless shock*
H. Amhad *et al.*, *Phys. Rev. Lett.* **110**, 205001 (2013).
7. *Dynamics of self-generated, large amplitude magnetic fields following high-intensity laser matter interaction*
G. Sarri *et al.*, *Phys. Rev. Lett.* **109**, 205002 (2012).
8. *Ion acceleration in multispecies targets driven by intense laser radiation pressure*
S. Kar *et al.*, *Phys. Rev. Lett.* **109**, 185006 (2012).
9. *Weibel-induced filamentation during ultrafast, laser-driven plasma expansion*
K. Quinn *et al.*, *Phys. Rev. Lett.* **108**, 135001 (2012).
10. *PIC simulations of thermal anisotropy-driven Weibel instability in a circular rarefaction wave*
M. Dieckmann *et al.*, *New J. Phys.* **14**, 023007 (2012) **RESEARCH HIGHLIGHT FOR NJP 2012**
11. *Generation of a purely electrostatic collisionless shock during the expansion of a dense plasma through a rarefied medium* G. Sarri *et al.*, *Phys. Rev. Lett.* **107**, 025003 (2011).
12. *Spatially resolved measurements of laser filamentation in long scale length underdense plasmas with and without beam smoothing* G. Sarri *et al.*, *Phys. Rev. Lett.* **106**, 095001 (2011).
13. *Observation of postsoliton expansion following laser propagation through an underdense plasma*
G. Sarri *et al.*, *Phys. Rev. Lett* **105**, 175007 (2010).
14. *Hot electrons transverse refluxing in ultraintense laser-solid interactions*
S. Buffechoux *et al.*, *Phys. Rev. Lett.* **105**, 015005 (2010).
15. *Laser-driven ultrafast field propagation on solid surfaces*
K. Quinn *et al.*, *Phys. Rev. Lett.* **102**, 194801 (2009). **EDITOR SUGGESTION FOR PRL 2009**
16. *Intense gamma-ray source in the giant-dipole-resonance range driven by 10-TW laser pulses*
A. Giulietti *et al.*, *Phys. Rev. Lett.* **101**, 105002 (2008).

OTHER PEER-REVIEWED PUBLICATIONS:

citations: 1029, h-index: 18 from Web of Science
citations: 1420, h-index: 21 from Google Scholar

17. *J. Mod. Opt.* DOI: 10.1080/09500340.2017.1353655 (2017).
18. *Chin. Phys. B* 26, 025201 (2017).
19. *Plasma Phys. Contr. F.* 59, 014015 (2017).
20. *Phys. Plasmas* 23, 123113 (2016).
21. *Nucl. Instrum. Meth. A* 829, 291 (2016).

22. Appl. Opt. 55, 9341 (2016).
23. Romanian Reports in Physics 68, S145 (2016).
24. Phys. Plasmas 23, 063121 (2016).
25. Phys. Plasmas 23, 062111 (2016).
26. J. Korean Phys. Soc. 68, 768 (2016).
27. Opt. Expr. 24, 5212 (2016).
28. Opt. Expr. 24, 3127 (2016).
29. Applied Surface Science 367, 80 (2016).
30. Rev. Sci. Instr. 86, 123302 (2015).
31. Phys. Rev. E 92, 031101 (2015).
32. J. Plasma Phys. 81, 455810401 (2015).
33. Phys. Rev. E 91, 033107 (2015).
34. Phys. Plasmas 22, 072104 (2015).
35. J. Plasma Phys. 81, 415810202 (2015).
36. High power laser sci. and eng. **2**, e33 (2014)
37. Rev. Sci. Instrum. **85** , 065119 (2014)
38. New J. Physics **16** 073001 (2014)
39. Phys. Plasmas **21**, 056704 (2014)
40. Nucl. Instrum. Meth. A **740**, 138 (2014)
41. Phys. Plasmas **20**, 102112 (2013)
42. Plasma Phys. Contr. F. **55**, 124017 (2013)
43. Plasma Phys. Contr. F. **55**, 124030 (2013)
44. Phys. Plasmas **20**, 042111 (2013)
45. Phys. Plasmas **19**, 122102 (2012)
46. Phys. Plasmas **19**, 113110 (2012)
47. Plasma Phys. Contr. F. **54**, 085015 (2012)
48. Phys. Plasmas **19**, 073111 (2012)
49. Phys. Plasmas **19**, 012310 (2012)
50. Plasma Phys. Contr. F. **53**, 124012 (2011)
51. App. Phys. Lett. **99**, 051501 (2011)
52. Phys. Plasmas **18**, 080704 (2011)
53. New Jour. Phys. **13**, 073023 (2011)
54. Phys. Plasmas **17**, 113303 (2010)
55. Radiat. Eff. Defect. Solids **165** , 774 (2010)
56. Laser Part. Beams **28**, 451 (2010)
57. Phys. Plasmas **17**, 082305 (2010)
58. New Jour. Phys. **12**, 063018 (2010)
59. Laser Part. Beams **28**, 277 (2010)
60. New Jour. Phys. **12**, 045006 (2010)
61. Plasma Phys. Contr. F. **52**, 2 (2010)
62. Phys. Plasmas **17**, 010701 (2010)
63. Rev. Sci. Instrum. **80**, 113506 (2009)
64. Eur. Phys. J. D **55**, 293 (2009)
65. Eur. Phys. J. D **55**, 299 (2009)
66. Rev. Sci. Instrum. **80**, 103302 (2009)
67. IEEE Transactions on Plasma Science **6**, 1 (2007)