

Peter Mulser

List of Publications by Year in descending order

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22
papers

501
citations

759233

12
h-index

752698

20
g-index

22
all docs

22
docs citations

22
times ranked

468
citing authors

#	ARTICLE	IF	CITATIONS
1	Two Very Efficient Nonlinear Laser Absorption Mechanisms in Clusters. <i>Physical Review Letters</i> , 2005, 95, 103401.	7.8	68
2	Collisionless Laser-Energy Conversion by Anharmonic Resonance. <i>Physical Review Letters</i> , 2008, 101, 225002.	7.8	65
3	Fast ignition of fusion pellets with superintense lasers: Concepts, problems, and prospectives. <i>Laser and Particle Beams</i> , 2004, 22, 5-12.	1.0	61
4	Ultra-intense laser pulse propagation in plasmas: from classic hole-boring to incomplete hole-boring with relativistic transparency. <i>New Journal of Physics</i> , 2012, 14, 063026.	2.9	54
5	Time-dependent electron-ion collision frequency at arbitrary laser intensity-temperature ratio. <i>Physical Review E</i> , 2000, 63, 016406.	2.1	37
6	Vacuum heating versus skin layer absorption of intense femtosecond laser pulses. <i>Physics of Plasmas</i> , 2007, 14, 023301.	1.9	37
7	Modeling field ionization in an energy conserving form and resulting nonstandard fluid dynamics. <i>Physics of Plasmas</i> , 1998, 5, 4466-4475.	1.9	33
8	Relativistic critical density increase and relaxation and high-power pulse propagation. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	29
9	On the inefficiency of hole boring in fast ignition. <i>Laser and Particle Beams</i> , 2004, 22, 157-162.	1.0	25
10	Quasi-monoenergetic ion generation by hole-boring radiation pressure acceleration in inhomogeneous plasmas using tailored laser pulses. <i>Physics of Plasmas</i> , 2014, 21, 012705.	1.9	22
11	Analysis of the Brunel model and resulting hot electron spectra. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	20
12	Dielectric Theory of Collisional Absorption in Intense Laser Fields. <i>Contributions To Plasma Physics</i> , 1997, 37, 211-227.	1.1	13
13	Collisionless electrostatic shock formation and ion acceleration in intense laser interactions with near critical density plasmas. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	12
14	Hydrodynamic models and schemes for fast ignition. <i>Laser and Particle Beams</i> , 1999, 17, 245-263.	1.0	11
15	Fast ignitor: Fluid dynamics of channel formation and laser beam propagation. <i>Laser and Particle Beams</i> , 1997, 15, 541-556.	1.0	4
16	Electron correlation versus stabilization of atoms in intense laser pulses. <i>Laser and Particle Beams</i> , 2000, 18, 449-454.	1.0	3
17	Stable plateau formation and Brillouin suppression in laser plasma. <i>Physics of Plasmas</i> , 2010, 17, 102707.	1.9	3
18	Anharmonic Resonance in Intense Laser-Matter Interaction: Key to Collisionless Absorption. <i>AIP Conference Proceedings</i> , 2010, , .	0.4	2

#	ARTICLE	IF	CITATIONS
19	Standard Models of Collisional Absorption and their Equivalence. Contributions To Plasma Physics, 2001, 41, 243-246.	1.1	1
20	The Physics of Collisionless Absorption of Intense Laser Beams in Solids and Clusters. AIP Conference Proceedings, 2006, , .	0.4	1
21	Generation of superhot electrons by intense field structures. , 1998, , .		0
22	Collisionless heating by intense laser radiation: Routes to irreversibility and anharmonic resonance. , 2009, , .		0