

Douglass W. Schumacher

List of Publications by Year in descending order

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36
papers

2,534
citations

279798

23
h-index

345221

36
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37
all docs

37
docs citations

37
times ranked

1557
citing authors

#	ARTICLE	IF	CITATIONS
1	Softening of the H ₂ ⁺ molecular bond in intense laser fields. <i>Physical Review Letters</i> , 1990, 64, 1883-1886.	7.8	542
2	Ionization and dissociation of H ₂ in intense laser fields at 1.064 μ m, 532 nm, and 355 nm. <i>Physical Review A</i> , 1990, 42, 5500-5513.	2.5	322
3	Above-threshold ionisation with a two-colour laser field. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1990, 23, 2761-2769.	1.5	188
4	Phase Dependence of Intense Field Ionization: A Study Using Two Colors. <i>Physical Review Letters</i> , 1994, 73, 1344-1347.	7.8	183
5	Asymmetries in Above-Threshold Ionization. <i>Physical Review Letters</i> , 1988, 60, 2458-2461.	7.8	150
6	High-Intensity Kapitza-Dirac Effect. <i>Physical Review Letters</i> , 1988, 61, 1182-1185.	7.8	146
7	Ramsey interference in strongly driven Rydberg systems. <i>Physical Review Letters</i> , 1993, 71, 2575-2578.	7.8	109
8	Population trapping in Kr and Xe in intense laser fields. <i>Physical Review A</i> , 1993, 47, R49-R52.	2.5	88
9	Phase dependence of intense-field ionization. <i>Physical Review A</i> , 1996, 54, 4271-4278.	2.5	69
10	Above-threshold ionization with elliptically polarized light. <i>Physical Review Letters</i> , 1987, 59, 274-277.	7.8	57
11	Programmable cesium Rydberg wave packets. <i>Physical Review A</i> , 1995, 52, 4719-4726.	2.5	56
12	Bound-state interferometry using incoherent light. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1995, 28, L405-L411.	1.5	53
13	Effects of front-surface target structures on properties of relativistic laser-plasma electrons. <i>Physical Review E</i> , 2014, 89, 013106.	2.1	51
14	Fast electron generation in cones with ultraintense laser pulses. <i>Physics of Plasmas</i> , 2008, 15, 056304.	1.9	47
15	On the origin of super-hot electrons from intense laser interactions with solid targets having moderate scale length preformed plasmas. <i>Physics of Plasmas</i> , 2014, 21, 023112.	1.9	47
16	Temporal resolution criterion for correctly simulating relativistic electron motion in a high-intensity laser field. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	44
17	Effects of target charging and ion emission on the energy spectrum of emitted electrons. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	43
18	Effects of Preplasma Scale Length and Laser Intensity on the Divergence of Laser-Generated Hot Electrons. <i>Physical Review Letters</i> , 2013, 110, 065007.	7.8	42

#	ARTICLE	IF	CITATIONS
19	Wave Packets in Perturbed Rydberg Systems. <i>Physical Review Letters</i> , 1997, 78, 4359-4362.	7.8	37
20	Nonresonant above-threshold ionization by circularly polarized subpicosecond pulses. <i>Physical Review A</i> , 1990, 41, 4119-4122.	2.5	35
21	Liquid crystal films as on-demand, variable thickness (50–5000 nm) targets for intense lasers. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	30
22	Time-resolved configuration interaction. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1996, 29, L397-L403.	1.5	26
23	Above-threshold ionization in helium. <i>Physical Review A</i> , 1988, 37, 3615-3618.	2.5	23
24	Temporal dynamics of a two-electron wave packet. <i>Physical Review A</i> , 1998, 57, 3712-3718.	2.5	22
25	Enhancing Bremsstrahlung production from ultraintense laser-solid interactions with front surface structures. <i>European Physical Journal D</i> , 2014, 68, 1.	1.3	20
26	Longer wavelengths require lower intensity in multiphoton detachment of negative ions. <i>Physical Review Letters</i> , 1992, 69, 3459-3462.	7.8	18
27	Coupling of laser energy into hot-electrons in high-contrast relativistic laser-plasma interactions. <i>Physics of Plasmas</i> , 2013, 20, 033104.	1.9	13
28	How well do time-integrated K^{\pm} images represent hot electron spatial distributions?. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	12
29	A confocal microscope position sensor for micron-scale target alignment in ultra-intense laser-matter experiments. <i>Review of Scientific Instruments</i> , 2015, 86, 053303.	1.3	12
30	The shaped critical surface in high intensity laser plasma interactions. <i>Physics of Plasmas</i> , 2011, 18, 013102.	1.9	11
31	Using time-integrated K^{\pm} images to study refluxing and the extent of pre-plasmas in intense laser-plasma experiment. <i>Physics of Plasmas</i> , 2011, 18, .	1.9	9
32	Modeling crater formation in femtosecond-pulse laser damage from basic principles. <i>Optics Letters</i> , 2015, 40, 2189.	3.3	9
33	Time dependence of fast electron beam divergence in ultraintense laser-plasma interactions. <i>Physical Review E</i> , 2012, 86, 026404.	2.1	8
34	A novel study of supercontinuum generation. <i>Applied Physics B: Lasers and Optics</i> , 2002, 74, s57-s62.	2.2	5
35	On specular reflectivity measurements in high and low-contrast relativistic laser-plasma interactions. <i>Physics of Plasmas</i> , 2015, 22, 013110.	1.9	5
36	Modeling pulse-cleaning plasma mirrors from dielectric response to saturation: A particle-in-cell approach. <i>Physics of Plasmas</i> , 2019, 26, 103103.	1.9	2