

Gabor Demeter

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

39
papers

308
citations

10
h-index

15
g-index

46
ext. papers

372
ext. citations

3.2
avg, IF

3.27
L-index

#	Paper	IF	Citations
39	Analysis of proton bunch parameters in the AWAKE experiment. <i>Journal of Instrumentation</i> , 2021 , 16, P11031	1	
38	Transition between Instability and Seeded Self-Modulation of a Relativistic Particle Bunch in Plasma. <i>Physical Review Letters</i> , 2021 , 126, 164802	7.4	4
37	Simulation and experimental study of proton bunch self-modulation in plasma with linear density gradients. <i>Physical Review Accelerators and Beams</i> , 2021 , 24,	1.8	1
36	Experimental study of wakefields driven by a self-modulating proton bunch in plasma. <i>Physical Review Accelerators and Beams</i> , 2020 , 23,	1.8	4
35	Proton Bunch Self-Modulation in Plasma with Density Gradient. <i>Physical Review Letters</i> , 2020 , 125, 264801	7.4	2
34	Propagation of ultrashort resonant ionizing laser pulses in rubidium vapor. <i>Physical Review A</i> , 2019 , 99,	2.6	3
33	Advanced neutral alkali beam diagnostics for applications in fusion research (invited). <i>Review of Scientific Instruments</i> , 2018 , 89, 10D107	1.7	9
32	Composite pulses for high-fidelity population inversion in optically dense, inhomogeneously broadened atomic ensembles. <i>Physical Review A</i> , 2016 , 93,	2.6	7
31	Coherence creation in an optically thick medium by matched propagation of a chirped-laser-pulse pair. <i>Physical Review A</i> , 2014 , 89,	2.6	2
30	Coherence rephasing combined with spin-wave storage using chirped control pulses. <i>Physical Review A</i> , 2014 , 89,	2.6	2
29	Adiabatic passage in photon-echo quantum memories. <i>Physical Review A</i> , 2013 , 88,	2.6	7
28	Solving the Maxwell-Bloch equations for resonant nonlinear optics using GPUs. <i>Computer Physics Communications</i> , 2013 , 184, 1203-1210	4.2	8
27	Pulse propagation in a dressed, degenerate system. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013 , 30, 829	1.7	10
26	Nonlinear pulse propagation phenomena in ion-doped dielectric crystals. <i>Physical Review A</i> , 2012 , 85,	2.6	3
25	Quantum control of multilevel atoms with rotational degeneracy using short laser pulses. <i>Physical Review A</i> , 2010 , 82,	2.6	1
24	Multiphoton adiabatic passage for atom optics applications. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2009 , 26, 867	1.7	3
23	Creation of a coherent superposition of quantum states by a single frequency-chirped short laser pulse. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2008 , 25, 166	1.7	14

22	Light-induced dynamics in nematic liquid crystals— Fascinating world of complex nonlinear phenomena. <i>Physics Reports</i> , 2007 , 448, 133-162	27.7	12
21	Propagation of frequency-chirped laser pulses in a medium of atoms with a Λ level scheme. <i>Physical Review A</i> , 2007 , 76,	2.6	5
20	DYNAMICAL PHENOMENA IN NEMATIC LIQUID CRYSTALS INDUCED BY LIGHT 2006 , 83-122		
19	Mechanical effect of retroreflected frequency-chirped laser pulses on two-level atoms. <i>Physical Review A</i> , 2006 , 74,	2.6	7
18	Numerical study of optically induced director oscillations in nematic liquid crystals: transition to chaos via homoclinic gluings and the role of backflow. <i>Physical Review E</i> , 2005 , 72, 051712	2.4	7
17	Influence of the backflow effect on the orientational dynamics induced by light in nematics. <i>Physical Review E</i> , 2005 , 71, 051711	2.4	8
16	Orientalional Dynamics Induced by Circularly Polarized Light in Nematic Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 2004 , 421, 117-131	0.5	5
15	Coherent interaction of frequency-modulated laser pulses with Rb atoms. <i>European Physical Journal A</i> , 2004 , 20, 167-176		
14	Coherent population transfer in Rb atoms by frequency-chirped laser pulses. <i>Physical Review A</i> , 2003 , 68,	2.6	19
13	Pattern-forming instability induced by light in pure and dye-doped nematic liquid crystals. <i>Physical Review E</i> , 2002 , 66, 031707	2.4	10
12	Numerical investigation of optically induced director oscillations in nematic liquid crystals. <i>Physical Review E</i> , 2001 , 64, 020701	2.4	21
11	LIGHT-INDUCED PATTERN FORMATION IN NEMATIC LIQUID CRYSTALS. <i>Molecular Crystals and Liquid Crystals</i> , 2001 , 366, 807-814		1
10	Complex nonlinear behavior in optically excited nematic liquid crystals. <i>Physical Review E</i> , 2000 , 61, 6678-6888	2.8	22
9	Population transfer in three-level Λ atoms with Doppler-broadened transition lines by a single frequency-chirped short laser pulse. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2000 , 17, 107	1.7	21
8	Transition to Chaos via Gluing Bifurcations in Optically Excited Nematic Liquid Crystals. <i>Physical Review Letters</i> , 1999 , 83, 4744-4747	7.4	45
7	Deflection and splitting of atomic beams with counterpropagating, short, chirped laser pulses. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1998 , 15, 16	1.7	9
6	Velocity-tuned resonances between different ground-state sublevels in two (σ and π) polarized standing waves. <i>Physical Review A</i> , 1997 , 56, 1472-1480	2.6	
5	Tomography using neural networks. <i>Review of Scientific Instruments</i> , 1997 , 68, 1438-1443	1.7	6

4	Theory of the adiabatic passage in two-level quantum systems with superpositional initial states. <i>Journal of Modern Optics</i> , 1997 , 44, 1511-1523	1.1	4
3	Manipulation of two-level quantum systems with narrow transition lines by short linearly polarized frequency-chirped laser pulses. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1996 , 13, 1697-7	1.7	6
2	Transient laser cooling of two-level quantum systems with narrow natural linewidths. <i>Physical Review A</i> , 1996 , 53, 2885-2888	2.6	14
1	Proton beam defocusing in AWAKE: comparison of simulations and measurements. <i>Plasma Physics and Controlled Fusion</i> ,	2	5