

Paris Panagiotopoulos

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

1,039
citations

623734

14
h-index

434195

31
g-index

38
all docs

38
docs citations

38
times ranked

733
citing authors

#	ARTICLE	IF	CITATIONS
1	Few-cycle 10 μm multi-terawatt pulse self-compression in a gas-filled multi-pass cell: a numerical experiment. Journal of the Optical Society of America B: Optical Physics, 2022, 39, 266.	2.1	8
2	Nonlinear localization of high energy long wave laser pulses in fully correlated 3D turbulence. Optics Letters, 2022, 47, 1782.	3.3	2
3	Simulations on the propagation dynamics of TW square-aperture CO2 laser pulses in the atmosphere. , 2021, , .		0
4	Filamentation-free Self-compression of LWIR Pulses in a CO2 Gas-filled Multi-pass Cell: A Numerical Study. , 2021, , .		0
5	Numerical study of spatial propagation dynamics and energy delivery of TW square-aperture CO2 laser pulses in the atmosphere. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 1214.	2.1	1
6	Generation of long homogeneous plasma channels with high power long-wave IR pulsed Bessel beams. Optics Letters, 2021, 46, 5457.	3.3	3
7	Multi-terawatt femtosecond 10 μm laser pulses by self-compression in a CO ₂ cell. OSA Continuum, 2020, 3, 3040.	1.8	14
8	10 Micron Filaments in the Atmosphere: Modeling Perspective. , 2019, , .		0
9	Megafilement in air formed by self-guided terawatt long-wavelength infrared laser. Nature Photonics, 2019, 13, 41-46.	31.4	83
10	Control of the filament dynamics of 10 μm pulses via designer pulse trains. Journal of the Optical Society of America B: Optical Physics, 2019, 36, G33.	2.1	6
11	Filamentation of long-wave infrared pulses in the atmosphere [Invited]. Journal of the Optical Society of America B: Optical Physics, 2019, 36, G40.	2.1	5
12	Nonlinear rovibrational response in the propagation of long-wavelength infrared pulses and pulse trains. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 3457.	2.1	1
13	Two-stage filamentation of 10 μm pulses as a broadband infrared backlighter in the atmosphere. Optics Letters, 2019, 44, 3122.	3.3	9
14	Photopolymerization with Light Fields Possessing Orbital Angular Momentum: Generation of Helical Microfibers. ACS Photonics, 2018, 5, 4156-4163.	6.6	33
15	Self-channeling of Terawatt-power CO2 laser Pulses in Air. , 2018, , .		0
16	Simulation of LWIR TW ultrashort pulses over kilometer ranges in the atmosphere. , 2018, , .		0
17	Long range robust multi-terawatt MWIR and LWIR atmospheric light bullets. Proceedings of SPIE, 2017, , .	0.8	0
18	Multi-terawatt 10 μm pulse atmospheric delivery over multiple Rayleigh ranges. Optics Letters, 2017, 42, 3722.	3.3	15

#	ARTICLE	IF	CITATIONS
19	Exploring the limits to energy scaling and distant-target delivery of high-intensity midinfrared pulses. <i>Physical Review A</i> , 2016, 94, .	2.5	8
20	Nonlinear plasma-assisted collapse of ring-Airy wave packets. <i>Physical Review A</i> , 2016, 93, .	2.5	24
21	Numerical Simulation of Ultra-Short Laser Pulses. , 2016, , 185-213.		1
22	Simulations of 10 μ m filaments in a realistically modeled atmosphere. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016, 33, 2154.	2.1	15
23	Super high power mid-infrared femtosecond light bullet. <i>Nature Photonics</i> , 2015, 9, 543-548.	31.4	130
24	Carrier field shock formation of long-wavelength femtosecond pulses in single-crystal diamond and air. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015, 32, 1718.	2.1	17
25	Extreme events in resonant radiation from three-dimensional light bullets. <i>Physical Review A</i> , 2014, 90, .	2.5	8
26	Extreme carrier shocking of intense long-wavelength pulses. <i>Physical Review A</i> , 2014, 89, .	2.5	24
27	Controlling high-power autofocusing waves with periodic lattices. <i>Optics Letters</i> , 2014, 39, 4958.	3.3	16
28	Sharply autofocused ring-Airy beams transforming into non-linear intense light bullets. <i>Nature Communications</i> , 2013, 4, 2622.	12.8	290
29	Ultrashort laser pulse filamentation with Airy and Bessel beams. <i>Proceedings of SPIE</i> , 2013, , .	0.8	9
30	Tailoring femtosecond laser pulse filamentation using plasma photonic lattices. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	14
31	Nonlinear propagation dynamics of finite-energy Airy beams. <i>Physical Review A</i> , 2012, 86, .	2.5	83
32	Nonlinear propagation and filamentation of intense Airy beams in transparent media. <i>Proceedings of SPIE</i> , 2012, , .	0.8	3
33	Observation and Optical Tailoring of Photonic Lattice Filaments. <i>Physical Review Letters</i> , 2012, 109, 113905.	7.8	24
34	Intense dynamic bullets in a periodic lattice. <i>Optics Express</i> , 2011, 19, 10057.	3.4	12
35	Stationary nonlinear Airy beams. <i>Physical Review A</i> , 2011, 84, .	2.5	123
36	Tailoring the filamentation of intense femtosecond laser pulses with periodic lattices. <i>Physical Review A</i> , 2010, 82, .	2.5	25

#	ARTICLE	IF	CITATIONS
37	Long spatio-temporally stationary filaments in air using short pulse UV laser Bessel beams. Optics Express, 2009, 17, 5052.	3.4	31
38	Linear X-wave generation by means of cross-phase modulation in Kerr media. Optics Letters, 2008, 33, 3028.	3.3	2