Paris Panagiotopoulos

List of Publications by Year
in descending order

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	Sharply autofocused ring-Airy beams transforming into non-linear intense light bullets. Nature Communications, 2013, 4, 2622.	12.8	290
2	Super high power mid-infrared femtosecond light bullet. Nature Photonics, 2015, 9, 543-548.	31.4	130
3	Stationary nonlinear Airy beams. Physical Review A, 2011, 84, .	2.5	123
4	Nonlinear propagation dynamics of finite-energy Airy beams. Physical Review A, 2012, 86, .	2.5	83
5	Megafilament in air formed by self-guided terawatt long-wavelength infrared laser. Nature Photonics, 2019, 13, 41-46.	31.4	83
6	Photopolymerization with Light Fields Possessing Orbital Angular Momentum: Generation of Helical Microfibers. ACS Photonics, 2018, 5, 4156-4163.	6.6	33
7	Long spatio-temporally stationary filaments in air using short pulse UV laser Bessel beams. Optics Express, 2009, 17, 5052.	3.4	31
8	Tailoring the filamentation of intense femtosecond laser pulses with periodic lattices. Physical Review A, 2010, 82, .	2.5	25
9	Observation and Optical Tailoring of Photonic Lattice Filaments. Physical Review Letters, 2012, 109, 113905.	7.8	24
10	Extreme carrier shocking of intense long-wavelength pulses. Physical Review A, 2014, 89, .	2.5	24
11	Nonlinear plasma-assisted collapse of ring-Airy wave packets. Physical Review A, 2016, 93, .	2.5	24
12	Carrier field shock formation of long-wavelength femtosecond pulses in single-crystal diamond and air. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 1718.	2.1	17
13	Controlling high-power autofocusing waves with periodic lattices. Optics Letters, 2014, 39, 4958.	3.3	16
14	Multi-terawatt 10â€‰â€‰Î¼m pulse atmospheric delivery over multiple Rayleigh ranges. Optics Letters, 2017, 42, 3722.	3.3	15
15	Simulations of 10â€‰â€‰Î¼m filaments in a realistically modeled atmosphere. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 2154.	2.1	15
16	Tailoring femtosecond laser pulse filamentation using plasma photonic lattices. Applied Physics Letters, 2013, 103, .	3.3	14
17	Multi-terawatt femtosecond 10 Âµm laser pulses by self-compression in a CO₂ cell. OSA Continuum, 2020, 3, 3040.	1.8	14
18	Intense dynamic bullets in a periodic lattice. Optics Express, 2011, 19, 10057.	3.4	12

#	Article	IF	Citations
19	Ultrashort laser pulse filamentation with Airy and Bessel beams. Proceedings of SPIE, 2013, , .	0.8	9
20	Two-stage filamentation of 10â€‰â€‰Î¼m pulses as a broadband infrared backlighter in the atmosphere. Optics Letters, 2019, 44, 3122.	3.3	9
21	Extreme events in resonant radiation from three-dimensional light bullets. Physical Review A, 2014, 90, .	2.5	8
22	Exploring the limits to energy scaling and distant-target delivery of high-intensity midinfrared pulses. Physical Review A, 2016, 94, .	2.5	8
23	Few-cycle 10â€‰â€‰Âµm 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
24	Control of the filament dynamics of 10â€‰â€‰Âµm pulses via designer pulse trains. Journal of the Optical Society of America B: Optical Physics, 2019, 36, G33.	2.1	6
25	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
26	Nonlinear propagation and filamentation of intense Airy beams in transparent media. Proceedings of SPIE, 2012, , .	0.8	3
27	Generation of long homogeneous plasma channels with high power long-wave IR pulsed Bessel beams. Optics Letters, 2021, 46, 5457.	3.3	3
28	Linear X-wave generation by means of cross-phase modulation in Kerr media. Optics Letters, 2008, 33, 3028.	3.3	2
29	Nonlinear localization of high energy long wave laser pulses in fully correlated 3D turbulence. Optics Letters, 2022, 47, 1782.	3.3	2
30	Numerical Simulation of Ultra-Short Laser Pulses. , 2016, , 185-213.		1
31	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
32	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
33	Long range robust multi-terawatt MWIR and LWIR atmospheric light bullets. Proceedings of SPIE, 2017, , .	0.8	0
34	Self-channeling of Terawatt-power CO2 laser Pulses in Air. , 2018, , .		0
35	10 Micron Filaments in the Atmosphere: Modeling Perspective. , 2019, , .		0
36	Simulations on the propagation dynamics of TW square-aperture CO2 laser pulses in the atmosphere. , 2021, , .		0

#	Article	IF	Citations
37	Filamentation-free Self-compression of LWIR Pulses in a CO2 Gas-filled Multi-pass Cell: A Numerical Study. , 2021, , .		0
38	Simulation of LWIR TW ultrashort pulses over kilometer ranges in the atmosphere. , 2018, , .		0