

Yu-hsin Chen

List of Publications by Year in descending order

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54
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994
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567281

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56
all docs

56
docs citations

56
times ranked

887
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct Measurement of the Electron Density of Extended Femtosecond Laser Pulse-Induced Filaments. Physical Review Letters, 2010, 105, 215005.	7.8	131
2	Trapping and Destruction of Long-Range High-Intensity Optical Filaments by Molecular Quantum Wakes in Air. Physical Review Letters, 2008, 101, 205001.	7.8	117
3	Ultrahigh-Intensity Optical Slow-Wave Structure. Physical Review Letters, 2007, 99, 035001.	7.8	108
4	Single-shot, space- and time-resolved measurement of rotational wavepacket revivals in H ₂ , D ₂ , N ₂ , O ₂ , and N ₂ O. Optics Express, 2007, 15, 11341.	3.4	91
5	Optical Nonlinearity in Ar and N ₂ near the Ionization Threshold. Physical Review Letters, 2011, 107, 103901.	7.8	83
6	Angular Dependence of Betatron X-Ray Spectra from a Laser-Wakefield Accelerator. Physical Review Letters, 2013, 111, 235004.	7.8	60
7	Measurement of transient nonlinear refractive index in gases using xenon supercontinuum single-shot spectral interferometry. Optics Express, 2007, 15, 7458.	3.4	58
8	Direct measurements of the nonlinear index of refraction of water at 815 and 407 nm using single-shot supercontinuum spectral interferometry. Applied Physics Letters, 2009, 94, 211102.	3.3	52
9	Laser-Accelerated Ions from a Shock-Compressed Gas Foil. Physical Review Letters, 2016, 117, 165001.	7.8	38
10	Molecular quantum wake-induced pulse shaping and extension of femtosecond air filaments. Physical Review A, 2012, 86, .	2.5	29
11	2014, 21, 100901.	1.9	25
12	Dependence of relativistic self-guiding and Raman forward scattering on duration and chirp of an intense laser pulse propagating in a plasma. Physics of Plasmas, 2002, 9, 391-394.	1.9	24
13	Periodic index-modulated plasma waveguide. Optics Express, 2009, 17, 4263.	3.4	22
14	Simulations of femtosecond atmospheric filaments enhanced by dual pulse molecular alignment. Physical Review A, 2012, 85, .	2.5	17
15	Stimulated Raman and Brillouin scattering, nonlinear focusing, thermal blooming, and optical breakdown of a laser beam propagating in water. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 2062.	2.1	16
16	Measurements of the High Field Optical Nonlinearity and Electron Density in Gases: Application to Filamentation Experiments. IEEE Journal of Quantum Electronics, 2012, 48, 760-767.	1.9	15
17	Space- and time-resolved measurement of rotational wave packet revivals of linear gas molecules using single-shot supercontinuum spectral interferometry. Journal of the Optical Society of America B: Optical Physics, 2008, 25, B122.	2.1	12
18	Quantum molecular lensing of femtosecond laser optical/plasma filaments. Physics of Plasmas, 2009, 16, 056702.	1.9	12

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19	Shock formation in supersonic cluster jets and its effect on axially modulated laser-produced plasma waveguides. Optics Express, 2013, 21, 15878.	3.4	11
20	Nonlinear frequency shift in Raman backscattering and its implications for plasma diagnostics. Physics of Plasmas, 2016, 23, .	1.9	11
21	Extending laser plasma accelerators into the mid-IR spectral domain with a next-generation ultra-fast CO ₂ laser. Plasma Physics and Controlled Fusion, 2016, 58, 034003.	2.1	11
22	Simulation of free-space optical guiding structure based on colliding gas flows. Applied Optics, 2015, 54, F144.	2.1	7
23	Prepulse controlled splitting of relativistically self-guided channel and suppression of Raman forward scattering instability. Physics of Plasmas, 2004, 11, 1173-1177.	1.9	5
24	Measuring the angular dependence of betatron x-ray spectra in a laser-wakefield accelerator. Plasma Physics and Controlled Fusion, 2014, 56, 084016.	2.1	5
25	Advanced concepts for high-power, short-pulse CO ₂ laser development. Proceedings of SPIE, 2016, , .	0.8	5
26	Synchrotron radiation from a curved plasma channel laser wakefield accelerator. Physics of Plasmas, 2017, 24, 033119.	1.9	5
27	Nonlinear underwater propagation of picosecond ultraviolet laser beams. Optics Letters, 2020, 45, 4344.	3.3	5
28	Laser accelerated ions from near critical gaseous targets. Proceedings of SPIE, 2015, , .	0.8	4
29	Observation of monoenergetic protons from a near-critical gas target tailored by a hydrodynamic shock. Proceedings of SPIE, 2015, , .	0.8	3
30	Laser acceleration of protons with an optically shaped, near-critical hydrogen gas target. AIP Conference Proceedings, 2017, , .	0.4	3
31	Single-shot, space- and time-resolved measurement of rotational wavepacket revivals in H ₂ and D ₂ , , 2008, , .		2
32	Corrugated Plasma Waveguides " Optical Slow Wave Structures. AIP Conference Proceedings, 2006, , .	0.4	1
33	Axially modulated plasma waveguides from wire-modulated cluster jets. , 2013, , .		1
34	Staging and laser acceleration of ions in underdense plasma. AIP Conference Proceedings, 2017, , .	0.4	1
35	Compression of Terawatt Long-Wavelength Laser Pulses Through Backward Raman Amplification. , 2018, , .		1
36	Seed source for plasma compression in the long wavelength infrared. Physics of Plasmas, 2021, 28, .	1.9	1

#	ARTICLE	IF	CITATIONS
37	B-dot Probe Study of Two-Color Laser-Produced Elongated Air Filaments. , 2009, , .		1
38	Dependence of Raman forward scattering and relativistic self-guiding on duration and chirp of an intense laser pulse propagating in a plasma. , 2002, , TuC5.		0
39	Ultra-high Intensity Optical Slow Wave Structure and Applications. AIP Conference Proceedings, 2007, , .	0.4	0
40	Single-shot time resolved measurement of molecular alignment in laser-irradiated gases. , 2007, , .		0
41	Asymmetric explosion of laser-irradiated hydrogen clusters. , 2007, , .		0
42	Application of corrugated plasma waveguides. , 2008, , .		0
43	Effect of aligned nitrogen molecules on atmospheric propagation of ultrashort laser pulses. , 2008, , .		0
44	Axially Modulated Plasma Waveguides. , 2009, , .		0
45	Temporal Compression of Ultrafast Optical Filaments by Molecular Quantum Wakes in Atmosphere. , 2011, , .		0
46	Tripling of Plasma Filament Length by Molecular Quantum Wakes in Atmosphere. , 2011, , .		0
47	Increasing Laser Contrast by Relativistic Self-Guiding and its Application to Laser-Based Proton Acceleration. , 2014, , .		0
48	Angular dependance of betatron x-ray spectra in a laser-wakefield accelerator. , 2014, , .		0
49	Trapping and destruction of long range high intensity optical filaments by molecular quantum wakes in air. , 2008, , .		0
50	Manipulation of an Optical/plasma Filament Propagating in Atmosphere Using Quantum Molecular Alignment Wakes. , 2009, , .		0
51	Electron Density of the Femtosecond Optical Filament in Air. , 2011, , .		0
52	Nonlinear Propagation of 100 ps, UV Laser Pulses in Water with Strong Stimulated Raman Stokes Coupling*. , 2017, , .		0
53	Nonlinear Propagation of 100 ps, UV Laser Pulses in Water with Strong Stimulated Raman Stokes Coupling. , 2017, , .		0
54	Nonlinear Laser-Dielectric Optical Media Interaction Modeling and Characterization. , 2021, , .		0