

# Yu-hsin Chen

## List of Publications by Year in descending order

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54  
papers

994  
citations

567281

15  
h-index

414414

32  
g-index

56  
all docs

56  
docs citations

56  
times ranked

887  
citing authors

#	ARTICLE	IF	CITATIONS
1	Seed source for plasma compression in the long wavelength infrared. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	1
2	Nonlinear Laser-Dielectric Optical Media Interaction Modeling and Characterization. , 2021, , .		0
3	Nonlinear underwater propagation of picosecond ultraviolet laser beams. <i>Optics Letters</i> , 2020, 45, 4344.	3.3	5
4	Compression of Terawatt Long-Wavelength Laser Pulses Through Backward Raman Amplification. , 2018, , .		1
5	Staging and laser acceleration of ions in underdense plasma. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	1
6	Laser acceleration of protons with an optically shaped, near-critical hydrogen gas target. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	3
7	Synchrotron radiation from a curved plasma channel laser wakefield accelerator. <i>Physics of Plasmas</i> , 2017, 24, 033119.	1.9	5
8	Nonlinear Propagation of 100 ps, UV Laser Pulses in Water with Strong Stimulated Raman Stokes Coupling*. , 2017, , .		0
9	Nonlinear Propagation of 100 ps, UV Laser Pulses in Water with Strong Stimulated Raman Stokes Coupling. , 2017, , .		0
10	Stimulated Raman and Brillouin scattering, nonlinear focusing, thermal blooming, and optical breakdown of a laser beam propagating in water. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016, 33, 2062.	2.1	16
11	Nonlinear frequency shift in Raman backscattering and its implications for plasma diagnostics. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	11
12	Laser-Accelerated Ions from a Shock-Compressed Gas Foil. <i>Physical Review Letters</i> , 2016, 117, 165001.	7.8	38
13	Advanced concepts for high-power, short-pulse CO <sub>2</sub> laser development. <i>Proceedings of SPIE</i> , 2016, , .	0.8	5
14	Extending laser plasma accelerators into the mid-IR spectral domain with a next-generation ultra-fast CO <sub>2</sub> laser. <i>Plasma Physics and Controlled Fusion</i> , 2016, 58, 034003.	2.1	11
15	Observation of monoenergetic protons from a near-critical gas target tailored by a hydrodynamic shock. <i>Proceedings of SPIE</i> , 2015, , .	0.8	3
16	Laser accelerated ions from near critical gaseous targets. <i>Proceedings of SPIE</i> , 2015, , .	0.8	4
17	Simulation of free-space optical guiding structure based on colliding gas flows. <i>Applied Optics</i> , 2015, 54, F144.	2.1	7
18	Measuring the angular dependence of betatron x-ray spectra in a laser-wakefield accelerator. <i>Plasma Physics and Controlled Fusion</i> , 2014, 56, 084016.	2.1	5

#	ARTICLE	IF	CITATIONS
19	2014, 21, 100901.	1.9	25
20	Increasing Laser Contrast by Relativistic Self-Guiding and its Application to Laser-Based Proton Acceleration. , 2014, , .		0
21	Angular dependance of betatron x-ray spectra in a laser-wakefield accelerator. , 2014, , .		0
22	Angular Dependence of Betatron X-Ray Spectra from a Laser-Wakefield Accelerator. Physical Review Letters, 2013, 111, 235004.	7.8	60
23	Shock formation in supersonic cluster jets and its effect on axially modulated laser-produced plasma waveguides. Optics Express, 2013, 21, 15878.	3.4	11
24	Axially modulated plasma waveguides from wire-modulated cluster jets. , 2013, , .		1
25	Molecular quantum wake-induced pulse shaping and extension of femtosecond air filaments. Physical Review A, 2012, 86, .	2.5	29
26	Simulations of femtosecond atmospheric filaments enhanced by dual pulse molecular alignment. Physical Review A, 2012, 85, .	2.5	17
27	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
28	Temporal Compression of Ultrafast Optical Filaments by Molecular Quantum Wakes in Atmosphere. , 2011, , .		0
29	Tripling of Plasma Filament Length by Molecular Quantum Wakes in Atmosphere. , 2011, , .		0
30	Optical Nonlinearity in Ar and N <sub>2</sub> near the Ionization Threshold. Physical Review Letters, 2011, 107, 103901.	7.8	83
31	Electron Density of the Femtosecond Optical Filament in Air. , 2011, , .		0
32	Direct Measurement of the Electron Density of Extended Femtosecond Laser Pulse-Induced Filaments. Physical Review Letters, 2010, 105, 215005.	7.8	131
33	Quantum molecular lensing of femtosecond laser optical/plasma filaments. Physics of Plasmas, 2009, 16, 056702.	1.9	12
34	Periodic index-modulated plasma waveguide. Optics Express, 2009, 17, 4263.	3.4	22
35	Axially Modulated Plasma Waveguides. , 2009, , .		0
36	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

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37	B-dot Probe Study of Two-Color Laser-Produced Elongated Air Filaments. , 2009, , .		1
38	Manipulation of an Optical/plasma Filament Propagating in Atmosphere Using Quantum Molecular Alignment Wakes. , 2009, , .		0
39	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
40	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
41	Single-shot, space- and time-resolved measurement of rotational wavepacket revivals in H <sub>2</sub> and D <sub>2</sub> . , 2008, , .		2
42	Application of corrugated plasma waveguides. , 2008, , .		0
43	Effect of aligned nitrogen molecules on atmospheric propagation of ultrashort laser pulses. , 2008, , .		0
44	Trapping and destruction of long range high intensity optical filaments by molecular quantum wakes in air. , 2008, , .		0
45	Ultra-high Intensity Optical Slow Wave Structure and Applications. AIP Conference Proceedings, 2007, , .	0.4	0
46	Ultrahigh-Intensity Optical Slow-Wave Structure. Physical Review Letters, 2007, 99, 035001.	7.8	108
47	Measurement of transient nonlinear refractive index in gases using xenon supercontinuum single-shot spectral interferometry. Optics Express, 2007, 15, 7458.	3.4	58
48	Single-shot, space- and time-resolved measurement of rotational wavepacket revivals in H <sub>2</sub> , D <sub>2</sub> , N <sub>2</sub> , O <sub>2</sub> , and N <sub>2</sub> O. Optics Express, 2007, 15, 11341.	3.4	91
49	Single-shot time resolved measurement of molecular alignment in laser-irradiated gases. , 2007, , .		0
50	Asymmetric explosion of laser-irradiated hydrogen clusters. , 2007, , .		0
51	Corrugated Plasma Waveguides " Optical Slow Wave Structures. AIP Conference Proceedings, 2006, , .	0.4	1
52	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
53	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
54	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