Thomas Fennel

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.

2,313 25 47 g-index

104 2,612 6 avg, IF L-index

#	Paper	IF	Citations
83	Characterization of Laser-Induced Ionization Dynamics in Solid Dielectrics. ACS Photonics, 2022 , 9, 233-7	2 40 3	1
82	Strong-field physics with nanospheres. Advances in Physics: X, 2022, 7,	5.1	1
81	Fundamentals and Mechanisms of Vacuum Photoionization 2021 , 1-21		
80	Onset of charge interaction in strong-field photoemission from nanometric needle tips. <i>Nanophotonics</i> , 2021 ,	6.3	3
79	Origin of strong-field-induced low-order harmonic generation in amorphous quartz. <i>Nature Physics</i> , 2020 , 16, 1035-1039	16.2	23
78	Quantum coherent diffractive imaging. JPhys Photonics, 2020, 2, 024007	2.5	1
77	Photoelectron spectroscopy of large water clusters ionized by an XUV comb. <i>JPhys Photonics</i> , 2020 , 2, 035007	2.5	3
76	Fast reconstruction of single-shot wide-angle diffraction images through deep learning. <i>Machine Learning: Science and Technology</i> , 2020 , 1, 045007	5.1	4
75	Ionization-Induced Subcycle Metallization of Nanoparticles in Few-Cycle Pulses. <i>ACS Photonics</i> , 2020 , 7, 3207-3215	6.3	7
74	All-optical spatio-temporal control of electron emission from SiO2 nanospheres with femtosecond two-color laser fields. <i>New Journal of Physics</i> , 2019 , 21, 073011	2.9	4
73	A DFT-based tight-binding approach to the self-consistent description of molecule metal-nanoparticle interactions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2019 , 52, 185101	1.3	2
72	Few-cycle laser driven reaction nanoscopy on aerosolized silica nanoparticles. <i>Nature Communications</i> , 2019 , 10, 4655	17.4	12
71	Nonlinear Lorentz model for the description of nonlinear optical dispersion in nanophotonics simulations [Invited]. <i>Optical Materials Express</i> , 2019 , 9, 771	2.6	4
70	A sensitive EUV Schwarzschild microscope for plasma studies with sub-micrometer resolution. <i>Review of Scientific Instruments</i> , 2018 , 89, 023703	1.7	8
69	Explicit formulation of second and third order optical nonlinearity in the FDTD framework. <i>Computer Physics Communications</i> , 2018 , 222, 70-83	4.2	16
68	Low-Energy Electron Emission in the Strong-Field Ionization of Rare Gas Clusters. <i>Physical Review Letters</i> , 2018 , 121, 063202	7.4	8
67	Attosecond streaking metrology with isolated nanotargets. <i>Journal of Optics (United Kingdom)</i> , 2018 , 20, 024002	1.7	7

(2016-2018)

66	Phase- and intensity-resolved measurements of above threshold ionization by few-cycle pulses. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018 , 51, 134007	1.3	10
65	Three-Dimensional Shapes of Spinning Helium Nanodroplets. <i>Physical Review Letters</i> , 2018 , 121, 255301	17.4	37
64	High-order above-threshold photoemission from nanotips controlled with two-color laser fields. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 134001	1.3	16
63	Trapping field assisted backscattering in strong-field photoemission from dielectric nanospheres. Journal of Modern Optics, 2017, 64, 1096-1103	1.1	15
62	Attosecond physics at the nanoscale. <i>Reports on Progress in Physics</i> , 2017 , 80, 054401	14.4	201
61	Attosecond chronoscopy of electron scattering in dielectric nanoparticles. <i>Nature Physics</i> , 2017 , 13, 766	-76.0	52
60	Quenching of material dependence in few-cycle driven electron acceleration from nanoparticles under many-particle charge interaction. <i>Journal of Modern Optics</i> , 2017 , 64, 995-1003	1.1	14
59	Nanoplasmonic electron acceleration by attosecond-controlled forward rescattering in silver clusters. <i>Nature Communications</i> , 2017 , 8, 1181	17.4	25
58	Signatures and mechanisms of plasmon-enhanced electron emission from clusters in few-cycle laser fields. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017 , 50, 224001	1.3	2
57	Coherent diffractive imaging of single helium nanodroplets with a high harmonic generation source. <i>Nature Communications</i> , 2017 , 8, 493	17.4	53
56	VIII Microscopic particle-in-cell approach 2017 , 227-270		
55	Attosekunden-Stoppuhr filinelastische Elektronenstil. <i>Physik in Unserer Zeit</i> , 2017 , 48, 217-218	0.1	
54	Massively parallel microscopic particle-in-cell. <i>Computer Physics Communications</i> , 2017 , 219, 269-285	4.2	O
53	Photoemission from Nanomaterials in Strong Few-Cycle Laser Fields. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2017 , 283-299	0.2	O
52	Dual crystal x-ray spectrometer at 1.8 keV for high repetition-rate single-photon counting spectroscopy experiments. <i>Journal of Instrumentation</i> , 2016 , 11, P08015-P08015	1	2
51	Ionization Avalanching in Clusters Ignited by Extreme-Ultraviolet Driven Seed Electrons. <i>Physical Review Letters</i> , 2016 , 116, 033001	7.4	21
50	Competition of single and double rescattering in the strong-field photoemission from dielectric nanospheres. <i>Applied Physics B: Lasers and Optics</i> , 2016 , 122, 101	1.9	19
49	MeV femtosecond electron pulses from direct-field acceleration in low density atomic gases. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 024001	1.3	5

48	Measurement of high-dynamic range x-ray Thomson scattering spectra for the characterization of nano-plasmas at LCLS. <i>Review of Scientific Instruments</i> , 2016 , 87, 11E709	1.7	4
47	Recombination-Enhanced Surface Expansion of Clusters in Intense Soft X-Ray Laser Pulses. <i>Physical Review Letters</i> , 2016 , 117, 153401	7.4	14
46	Real-time fragmentation dynamics of clusters ionized by intense extreme-ultraviolet pulses. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015 , 48, 185101	1.3	10
45	Recombination dynamics of clusters in intense extreme-ultraviolet and near-infrared fields. <i>New Journal of Physics</i> , 2015 , 17, 033043	2.9	21
44	Coherent electronic wave packet motion in C(60) controlled by the waveform and polarization of few-cycle laser fields. <i>Physical Review Letters</i> , 2015 , 114, 123004	7.4	46
43	Signatures of transient resonance heating in photoemission from free NaCl nanoparticles in intense femtosecond laser pulses. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2015 , 200, 216-221	1.7	6
42	Ultrafast electron kinetics in short pulse laser-driven dense hydrogen. <i>Journal of Physics B: Atomic, Molecular and Optical Physics,</i> 2015 , 48, 224004	1.3	4
41	Accurate determination of absolute carrier-envelope phase dependence using photo-ionization. <i>Optics Letters</i> , 2015 , 40, 3137-40	3	13
40	Field propagation-induced directionality of carrier-envelope phase-controlled photoemission from nanospheres. <i>Nature Communications</i> , 2015 , 6, 7944	17.4	60
39	Coulomb frustration of the multiphoton ionization of metallic clusters under intense EUV FEL evidenced by ion spectrometry. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015 , 48, 234	1 0 01	1
38	Correlated electronic decay following intense near-infrared ionization of clusters. <i>Journal of Physics: Conference Series</i> , 2015 , 635, 012025	0.3	1
37	Intracluster Coulombic decay following intense NIR ionization of clusters. <i>Journal of Physics: Conference Series</i> , 2015 , 635, 102004	0.3	
36	Influence of wavelength and pulse duration on single-shot x-ray diffraction patterns from nonspherical nanoparticles. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015 , 48, 204004	1 ^{1.3}	7
35	Laser-Induced Plasma Dynamics Imaged by Femtosecond In-Line Holography. <i>Springer Proceedings in Physics</i> , 2015 , 345-347	0.2	
34	Observation of correlated electronic decay in expanding clusters triggered by near-infrared fields. <i>Nature Communications</i> , 2015 , 6, 8596	17.4	26
33	The 3D-architecture of individual free silver nanoparticles captured by X-ray scattering. <i>Nature Communications</i> , 2015 , 6, 6187	17.4	67
32	Light Wave Driven Electron Dynamics in Clusters 2015 , 119-154		
31	Recombination-Induced Autoionization Process in Rare-Gas Clusters. <i>Springer Proceedings in Physics</i> , 2015 , 56-59	0.2	

30	Attosecond Nanophysics 2014 , 421-462		5
29	Time-resolved x-ray imaging of anisotropic nanoplasma expansion. <i>Physical Review Letters</i> , 2014 , 113, 133401	7.4	26
28	Equilibration dynamics and conductivity of warm dense hydrogen. <i>Physical Review E</i> , 2014 , 90, 013104	2.4	18
27	Light wave driven electron dynamics in clusters. <i>Annalen Der Physik</i> , 2014 , 526, 135-156	2.6	6
26	Resolving ultrafast heating of dense cryogenic hydrogen. <i>Physical Review Letters</i> , 2014 , 112, 105002	7.4	70
25	Electron-relocalization dynamics in xenon clusters in intense soft-x-ray fields. <i>Physical Review A</i> , 2014 , 89,	2.6	24
24	Tracing electron-ion recombination in nanoplasmas produced by extreme-ultraviolet irradiation of rare-gas clusters. <i>Physical Review Letters</i> , 2014 , 112, 253401	7.4	34
23	Carrier Invelope phase-tagged imaging of the controlled electron acceleration from SiO2 nanospheres in intense few-cycle laser fields. <i>New Journal of Physics</i> , 2012 , 14, 075010	2.9	35
22	Atomic photoionization in combined intense XUV free-electron and infrared laser fields. <i>New Journal of Physics</i> , 2012 , 14, 043008	2.9	32
21	Collision-enhanced plasmonic electron acceleration in small metal clusters. <i>New Journal of Physics</i> , 2012 , 14, 055011	2.9	10
20	Fully microscopic analysis of laser-driven finite plasmas using the example of clusters. <i>New Journal of Physics</i> , 2012 , 14, 065011	2.9	26
19	Attosecond plasma wave dynamics in laser-driven cluster nanoplasmas. <i>Physical Review Letters</i> , 2012 , 108, 175007	7.4	38
18	Rare-gas clusters in intense VUV, XUV and soft x-ray pulses: signatures of the transition from nanoplasma-driven cluster expansion to Coulomb explosion in ion and electron spectra. <i>New Journal of Physics</i> , 2011 , 13, 053022	2.9	53
17	Controlled near-field enhanced electron acceleration from dielectric nanospheres with intense few-cycle laser fields. <i>Nature Physics</i> , 2011 , 7, 656-662	16.2	193
16	Resonant charging of Xe clusters in helium nanodroplets under intense laser fields. <i>European Physical Journal D</i> , 2011 , 63, 281-288	1.3	13
15	Time-resolved analysis of strong-field induced plasmon oscillations in metal clusters by spectral interferometry with few-cycle laser fields. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 8747-54	3.6	5
14	Steplike intensity threshold behavior of extreme ionization in laser-driven xenon clusters. <i>Physical Review Letters</i> , 2010 , 105, 053401	7.4	39
13	Ionization heating in rare-gas clusters under intense XUV laser pulses. <i>Physical Review A</i> , 2010 , 82,	2.6	51

12	Laser-driven nonlinear cluster dynamics. <i>Reviews of Modern Physics</i> , 2010 , 82, 1793-1842	40.5	337
11	Resolving the Ion and Electron Dynamics in Finite Systems Exposed to Intense Optical Laser Fields. <i>Springer Series in Materials Science</i> , 2010 , 85-113	0.9	
10	Signatures of bound-state-assisted nonsequential double ionization. <i>Physical Review A</i> , 2009 , 80,	2.6	6
9	Multistep ionization of argon clusters in intense femtosecond extreme ultraviolet pulses. <i>Physical Review Letters</i> , 2008 , 100, 133401	7.4	138
8	Non-resonant absorption enhancement in laser-excited simple metal clusters through electron-electron collisions. <i>Physical Review A</i> , 2008 , 77,	2.6	16
7	Semiclassical Description of Quantum Many-Particle Dynamics in Strong Laser Fields 2008 , 255-273		1
6	Spectroscopy of rare gas clusters using VUV light from a free-electron-laser. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2007 , 156-158, 25-29	1.7	4
5	Highly charged ions from laser-cluster interactions: local-field-enhanced impact ionization and frustrated electron-ion recombination. <i>Physical Review Letters</i> , 2007 , 99, 233401	7.4	81
4	Plasmon-enhanced electron acceleration in intense laser metal-cluster interactions. <i>Physical Review Letters</i> , 2007 , 98, 143401	7.4	78
3	Charging of metal clusters in helium droplets exposed to intense femtosecond laser pulses. <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 4639-52	3.6	27
2	Ionization dynamics of simple metal clusters in intense fields by the Thomas-Fermi-Vlasov method. <i>European Physical Journal D</i> , 2004 , 29, 367-378	1.3	64
	Ionic recoil energies in the Coulomb explosion of metal clusters. European Physical Journal D, 2001,		