

German Sciaini

List of Publications by Year in descending order

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49
papers

2,351
citations

566801

15
h-index

377514

34
g-index

50
all docs

50
docs citations

50
times ranked

2438
citing authors

#	ARTICLE	IF	CITATIONS
1	Femtosecond electron diffraction: heralding the era of atomically resolved dynamics. Reports on Progress in Physics, 2011, 74, 096101.	8.1	402
2	Snapshots of cooperative atomic motions in the optical suppression of charge density waves. Nature, 2010, 468, 799-802.	13.7	373
3	The Formation of Warm Dense Matter: Experimental Evidence for Electronic Bond Hardening in Gold. Science, 2009, 323, 1033-1037.	6.0	294
4	Electronic acceleration of atomic motions and disordering in bismuth. Nature, 2009, 458, 56-59.	13.7	253
5	Mapping molecular motions leading to charge delocalization with ultrabright electrons. Nature, 2013, 496, 343-346.	13.7	240
6	Electronically Driven Structure Changes of Si Captured by Femtosecond Electron Diffraction. Physical Review Letters, 2008, 100, 155504.	2.9	150
7	Full characterization of RF compressed femtosecond electron pulses using ponderomotive scattering. Optics Express, 2012, 20, 12048.	1.7	106
8	Grating enhanced ponderomotive scattering for visualization and full characterization of femtosecond electron pulses. Optics Express, 2008, 16, 3334.	1.7	93
9	'Making the molecular movie': first frames. Acta Crystallographica Section A: Foundations and Advances, 2010, 66, 137-156.	0.3	84
10	Excitation of longitudinal and transverse coherent acoustic phonons in nanometer free-standing films of (001) Si. Physical Review B, 2009, 79, .	1.1	81
11	Direct visualization of charge distributions during femtosecond laser ablation of a Si (100) surface. Physical Review B, 2008, 78, .	1.1	42
12	Cold ablation driven by localized forces in alkali halides. Nature Communications, 2014, 5, 3863.	5.8	41
13	Ultrafast structural dynamics with table top femtosecond hard X-ray and electron diffraction setups. European Physical Journal: Special Topics, 2013, 222, 1093-1123.	1.2	30
14	Femtosecond electron diffraction: Preparation and characterization of (110)-oriented bismuth films. Journal of Applied Physics, 2012, 111, 043504.	1.1	20
15	Short-range and long-range solvent effects on charge-transfer-to-solvent transitions of $I_2^{\bullet-}$ and $K+I_2^{\bullet-}$ contact ion pair dissolved in supercritical ammonia. Journal of Chemical Physics, 2007, 126, 174504.	1.2	15
16	High flow rate nanofluidics for in-liquid electron microscopy and diffraction. Nanotechnology, 2019, 30, 395703.	1.3	13
17	An aligned octahedral core in a nanocage: synthesis, plasmonic, and catalytic properties. Nanoscale, 2019, 11, 3138-3144.	2.8	12
18	Kinetics of thermal decoloration of a photomerocyanine in mixtures of protic and nonpolar solvents. Journal of Photochemistry and Photobiology A: Chemistry, 2002, 153, 25-31.	2.0	10

#	ARTICLE	IF	CITATIONS
19	Solubility of crystalline alkali metal iodides in supercritical ammonia. <i>Journal of Supercritical Fluids</i> , 2005, 35, 106-110.	1.6	9
20	Influence of Ion Pairing on the UV-Spectral Behavior of KI Dissolved in Supercritical NH ₃ : From Vapor Phase to Condensed Liquid. <i>Journal of Physical Chemistry B</i> , 2005, 109, 18949-18955.	1.2	9
21	Shaped cathodes for the production of ultra-short multi-electron pulses. <i>Structural Dynamics</i> , 2017, 4, 044005.	0.9	9
22	Recent Advances in Ultrafast Structural Techniques. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1427.	1.3	9
23	Intermolecular solvent-solute energies for thermodynamic and spectroscopic properties of solutes in near-critical solvents. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 3400-3406.	1.3	8
24	Development of the charge-transfer-to-solvent process with increasing solvent fluid density: the effect of ion pairing. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 4839-4848.	1.3	8
25	Generation and detection of coherent longitudinal acoustic waves in ultrathin 1T-MoTe ₂ . <i>Applied Physics Letters</i> , 2019, 115, .	1.5	7
26	High-Performance Mid-IR to Deep-UV van der Waals Photodetectors Capable of Local Spectroscopy at Room Temperature. <i>Nano Letters</i> , 2022, 22, 3425-3432.	4.5	6
27	Solvent Triggered Change of the Electron Excitation Route of KI in Supercritical NH ₃ . <i>Journal of Physical Chemistry B</i> , 2006, 110, 8921-8923.	1.2	5
28	REGAE: New Source for Atomically Resolved Dynamics. , 2012, , .		5
29	Is Ammonia a Better Solvent Than Water for Contact Ion Pairs?. <i>Journal of Physical Chemistry B</i> , 2008, 112, 11990-11995.	1.2	3
30	Time-resolved broadband impulsive stimulated Brillouin scattering in single crystal hematite. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	3
31	Hot carrier transport limits the displacive excitation of coherent phonons in bismuth. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	3
32	Photoinduced interlayer dynamics in 1T _d -MoTe ₂ : A broadband pump-probe study. <i>Applied Physics Letters</i> , 2022, 120, 123102.	1.5	3
33	Trapping a Photoelectron behind a Repulsive Coulomb Barrier in Solution. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5742-5747.	2.1	2
34	Establishing a Canadian free-electron laser research program. <i>Canadian Journal of Physics</i> , 2019, 97, vii-x.	0.4	2
35	Ultrabright Femtosecond Electron Sources: Ultrafast Structural Dynamics in Labile Organic Crystals. <i>Microscopy and Microanalysis</i> , 2015, 21, 1207-1208.	0.2	1
36	Non-Thermal Collapse of the Silicon Lattice Observed with Femtosecond Electron Diffraction. , 2007, , LTuA3.		0

#	ARTICLE	IF	CITATIONS
37	Time-resolved visualization of electric fields during femtosecond laser ablation. , 2008, , .		0
38	Femtosecond Electron Diffraction for the Study of Charge Density Waves. , 2012, , .		0
39	Femtosecond Electron Diffraction Study of the Cyclization Reaction in Crystalline Diarylethene. EPJ Web of Conferences, 2013, 41, 05033.	0.1	0
40	Ultrabright femtosecond electron sources: perspectives and challenges towards the study of structural dynamics in labile systems. , 2014, , .		0
41	Ultrafast Electron Diffraction for the Dynamical Study of 2D Materials. Microscopy and Microanalysis, 2018, 24, 1598-1599.	0.2	0
42	Static and dynamic scavenging of ammoniated electrons by nitromethane. Physical Chemistry Chemical Physics, 2019, 21, 21972-21978.	1.3	0
43	A plastic feedthrough suitable for high-voltage DC femtosecond electron diffractometers. Review of Scientific Instruments, 2021, 92, 103303.	0.6	0
44	Atomic View of the Photoinduced Collapse of Gold and Bismuth. Springer Series in Chemical Physics, 2009, , 113-115.	0.2	0
45	Electronically Driven Structural Dynamics of Si Resolved by Femtosecond Electron Diffraction. Springer Series in Chemical Physics, 2009, , 158-160.	0.2	0
46	Grating Enhanced Ponderomotive Scattering for Characterization of Femtosecond Electron Pulses. Springer Series in Chemical Physics, 2009, , 994-996.	0.2	0
47	Ultrafast order parameter melting in a 2D Charge Density Wave 1T-TaS2 probed by femtosecond electron diffraction. , 2010, , .		0
48	Coherent Acoustic Phonons in Highly Oriented Bismuth Films Monitored by Femtosecond Electron Diffraction. , 2010, , .		0
49	Direct Observation of Arrival Time Jitter for RF Compressed Femtosecond Electron Bunches by Ponderomotive Scattering. , 2012, , .		0