German Sciaini

List of Publications by Year
in descending order

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	Photoinduced interlayer dynamics in T_d-MoTe₂: A broadband pump-probe study. Applied Physics Letters, 2022, 120, 123102.	1.5	3
2	High-Performance Mid-IR to Deep-UV van der Waals Photodetectors Capable of Local Spectroscopy at Room Temperature. Nano Letters, 2022, 22, 3425-3432.	4.5	6
3	Time-resolved broadband impulsive stimulated Brillouin scattering in single crystal hematite. Applied Physics Letters, 2021, 118, .	1.5	3
4	Hot carrier transport limits the displacive excitation of coherent phonons in bismuth. Applied Physics Letters, 2021, 119, .	1.5	3
5	A plastic feedthrough suitable for high-voltage DC femtosecond electron diffractometers. Review of Scientific Instruments, 2021, 92, 103303.	0.6	0
6	Trapping a Photoelectron behind a Repulsive Coulomb Barrier in Solution. Journal of Physical Chemistry Letters, 2019, 10, 5742-5747.	2.1	2
7	An aligned octahedral core in a nanocage: synthesis, plasmonic, and catalytic properties. Nanoscale, 2019, 11, 3138-3144.	2.8	12
8	High flow rate nanofluidics for in-liquid electron microscopy and diffraction. Nanotechnology, 2019, 30, 395703.	1.3	13
9	Recent Advances in Ultrafast Structural Techniques. Applied Sciences (Switzerland), 2019, 9, 1427.	1.3	9
10	Static and dynamic scavenging of ammoniated electrons by nitromethane. Physical Chemistry Chemical Physics, 2019, 21, 21972-21978.	1.3	0
11	Generation and detection of coherent longitudinal acoustic waves in ultrathin 1Tâ€™-MoTe2. Applied Physics Letters, 2019, 115, .	1.5	7
12	Establishing a Canadian free-electron laser research program. Canadian Journal of Physics, 2019, 97, vii-x.	0.4	2
13	Ultrafast Electron Diffraction for the Dynamical Study of 2D Materials. Microscopy and Microanalysis, 2018, 24, 1598-1599.	0.2	0
14	Shaped cathodes for the production of ultra-short multi-electron pulses. Structural Dynamics, 2017, 4, 044005.	0.9	9
15	Ultrabright Femtosecond Electron Sources: Ultrafast Structural Dynamics in Labile Organic Crystals. Microscopy and Microanalysis, 2015, 21, 1207-1208.	0.2	1
16	Cold ablation driven by localized forces in alkali halides. Nature Communications, 2014, 5, 3863.	5.8	41
17	Ultrabright femtosecond electron sources: perspectives and challenges towards the study of structural dynamics in labile systems. , 2014, , .		0
18	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

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19	Mapping molecular motions leading to charge delocalization with ultrabright electrons. Nature, 2013, 496, 343-346.	13.7	240
20	Femtosecond Electron Diffraction Study of the Cyclization Reaction in Crystalline Diarylethene. EPJ Web of Conferences, 2013, 41, 05033.	0.1	0
21	REGAE: New Source for Atomically Resolved Dynamics. , 2012, , .		5
22	Full characterization of RF compressed femtosecond electron pulses using ponderomotive scattering. Optics Express, 2012, 20, 12048.	1.7	106
23	Femtosecond electron diffraction: Preparation and characterization of (110)-oriented bismuth films. Journal of Applied Physics, 2012, 111, 043504.	1.1	20
24	Femtosecond Electron Diffraction for the Study of Charge Density Waves. , 2012, , .		0
25	Direct Observation of Arrival Time Jitter for RF Compressed Femtosecond Electron Bunches by Ponderomotive Scattering. , 2012, , .		0
26	Femtosecond electron diffraction: heralding the era of atomically resolved dynamics. Reports on Progress in Physics, 2011, 74, 096101.	8.1	402
27	`Making the molecular movie': first frames. Acta Crystallographica Section A: Foundations and Advances, 2010, 66, 137-156.	0.3	84
28	Snapshots of cooperative atomic motions in the optical suppression of charge density waves. Nature, 2010, 468, 799-802.	13.7	373
29	Ultrafast order parameter melting in a 2D Charge Density Wave 1T-TaS2 probed by femtosecond electron diffraction. , 2010, , .		0
30	Coherent Acoustic Phonons in Highly Oriented Bismuth Films Monitored by Femtosecond Electron Diffraction. , 2010, , .		0
31	Excitation of longitudinal and transverse coherent acoustic phonons in nanometer free-standing films of (001) Si. Physical Review B, 2009, 79, .	1.1	81
32	Electronic acceleration of atomic motions and disordering in bismuth. Nature, 2009, 458, 56-59.	13.7	253
33	The Formation of Warm Dense Matter: Experimental Evidence for Electronic Bond Hardening in Gold. Science, 2009, 323, 1033-1037.	6.0	294
34	Atomic View of the Photoinduced Collapse of Gold and Bismuth. Springer Series in Chemical Physics, 2009, , 113-115.	0.2	0
35	Electronically Driven Structural Dynamics of Si Resolved by Femtosecond Electron Diffraction. Springer Series in Chemical Physics, 2009, , 158-160.	0.2	0
36	Grating Enhanced Ponderomotive Scattering for Characterization of Femtosecond Electron Pulses. Springer Series in Chemical Physics, 2009, , 994-996.	0.2	0

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37	Grating enhanced ponderomotive scattering for visualization and full characterization of femtosecond electron pulses. Optics Express, 2008, 16, 3334.	1.7	93
38	Electronically Driven Structure Changes of Si Captured by Femtosecond Electron Diffraction. Physical Review Letters, 2008, 100, 155504.	2.9	150
39	Is Ammonia a Better Solvent Than Water for Contact Ion Pairs?. Journal of Physical Chemistry B, 2008, 112, 11990-11995.	1.2	3
40	Time-resolved visualization of electric fields during femtosecond laser ablation. , 2008, , .		0
41	Direct visualization of charge distributions during femtosecond laser ablation of a Si (100) surface. Physical Review B, 2008, 78, .	1.1	42
42	Short-range and long-range solvent effects on charge-transfer-to-solvent transitions of Iâ^' and K+Iâ^' contact ion pair dissolved in supercritical ammonia. Journal of Chemical Physics, 2007, 126, 174504.	1.2	15
43	Non-Thermal Collapse of the Silicon Lattice Observed with Femtosecond Electron Diffraction. , 2007, , LTuA3.		0
44	Development of the charge-transfer-to-solvent process with increasing solvent fluid density: the effect of ion pairing. Physical Chemistry Chemical Physics, 2006, 8, 4839-4848.	1.3	8
45	Solvent Triggered Change of the Electron Excitation Route of KI in Supercritical NH3. Journal of Physical Chemistry B, 2006, 110, 8921-8923.	1.2	5
46	Solubility of crystalline alkali metal iodides in supercritical ammonia. Journal of Supercritical Fluids, 2005, 35, 106-110.	1.6	9
47	Influence of Ion Pairing on the UV-Spectral Behavior of KI Dissolved in Supercritical NH3:â€‰ From Vapor Phase to Condensed Liquid. Journal of Physical Chemistry B, 2005, 109, 18949-18955.	1.2	9
48	Intermolecular solventâ€“solute energies for thermodynamic and spectroscopic properties of solutes in near-critical solvents. Physical Chemistry Chemical Physics, 2002, 4, 3400-3406.	1.3	8
49	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