

David A Reis

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

5,931
citations

159585

30
h-index

197818

49
g-index

51
all docs

51
docs citations

51
times ranked

4456
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of a Novel Lattice Instability in Ultrafast Photoexcited SnSe. Physical Review X, 2022, 12, .	8.9	10
2	Observation of photo-induced plasmon-phonon coupling in PbTe via ultrafast x-ray scattering. Structural Dynamics, 2022, 9, 024301.	2.3	3
3	Direct Observation of Coherent Longitudinal and Shear Acoustic Phonons in TaAs Using Ultrafast X-Ray Diffraction. Physical Review Letters, 2022, 128, 155301.	7.8	7
4	Ultrafast formation of domain walls of a charge density wave in SmTe . Physical Review B, 2021, 103, .	1.2	16
5	Strong-field physics in three-dimensional topological insulators. Physical Review A, 2021, 103, .	2.5	45
6	Measurements of nonequilibrium interatomic forces using time-domain x-ray scattering. Physical Review B, 2021, 103, .	3.2	12
7	Generation of structured coherent extreme ultraviolet beams from an MgO crystal. Optics Express, 2021, 29, 24161.	3.4	10
8	Polarization Flipping of Even-Order Harmonics in Monolayer Transition-Metal Dichalcogenides. Ultrafast Science, 2021, 2021, .	11.2	34
9	All-Optical Probe of Three-Dimensional Topological Insulators Based on High-Harmonic Generation by Circularly Polarized Laser Fields. Nano Letters, 2021, 21, 8970-8978.	9.1	59
10	Dynamically Tunable Terahertz Emission Enabled by Anomalous Optical Phonon Responses in Lead Telluride. ACS Photonics, 2021, 8, 3633-3640.	6.6	7
11	Beating absorption in solid-state high harmonics. Communications Physics, 2020, 3, .	5.3	14
12	Attosecond synchronization of extreme ultraviolet high harmonics from crystals. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 144003.	1.5	20
13	Femtosecond x-ray diffraction reveals a liquid-liquid phase transition in phase-change materials. Science, 2019, 364, 1062-1067.	12.6	120
14	Coherent order parameter dynamics in SmTe . Physical Review B, 2019, 99, .	1.2	20
15	Interferometry of dipole phase in high harmonics from solids. Nature Photonics, 2019, 13, 96-100.	31.4	36
16	High-harmonic generation from solids. Nature Physics, 2019, 15, 10-16.	16.7	374
17	Characterization of high-harmonic emission from ZnO up to 11 eV pumped with a Cr:ZnS high-repetition-rate source. Optics Letters, 2019, 44, 259.	3.3	9
18	Direct Measurement of Anharmonic Decay Channels of a Coherent Phonon. Physical Review Letters, 2018, 121, 125901.	7.8	25

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19	Observation of backward high-harmonic emission from solids. <i>Optics Express</i> , 2018, 26, 12210.	3.4	44
20	Enhanced high-harmonic generation from an all-dielectric metasurface. <i>Nature Physics</i> , 2018, 14, 1006-1010.	16.7	215
21	Visualization of Atomic-Scale Motions in Materials via Femtosecond X-Ray Scattering Techniques. <i>Annual Review of Materials Research</i> , 2017, 47, 425-449.	9.3	39
22	High-harmonic generation from an atomically thin semiconductor. <i>Nature Physics</i> , 2017, 13, 262-265.	16.7	514
23	Anisotropic high-harmonic generation in bulk crystals. <i>Nature Physics</i> , 2017, 13, 345-349.	16.7	345
24	Orientation dependence of temporal and spectral properties of high-order harmonics in solids. <i>Physical Review A</i> , 2017, 96, .	2.5	35
25	Ultrafast resonant soft x-ray diffraction dynamics of the charge density wave in TbTe ₃ . <i>Physical Review B</i> , 2016, 93, .	3.2	27
26	Resonant squeezing and the anharmonic decay of coherent phonons. <i>Physical Review B</i> , 2016, 93, .	3.2	11
27	Control of two-phonon correlations and the mechanism of high-wavevector phonon generation by ultrafast light pulses. <i>Physical Review B</i> , 2016, 94, .	3.2	17
28	The origin of incipient ferroelectricity in lead telluride. <i>Nature Communications</i> , 2016, 7, 12291.	12.8	58
29	Solid-state harmonics beyond the atomic limit. <i>Nature</i> , 2016, 534, 520-523.	27.8	366
30	Phonon spectroscopy with sub-meV resolution by femtosecond x-ray diffuse scattering. <i>Physical Review B</i> , 2015, 92, .	3.2	34
31	High-harmonic generation from Bloch electrons in solids. <i>Physical Review A</i> , 2015, 91, .	2.5	271
32	Strong-field and attosecond physics in solids. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014, 47, 204030.	1.5	108
33	X-Ray Second Harmonic Generation. <i>Physical Review Letters</i> , 2014, 112, 163901.	7.8	116
34	Evidence for photo-induced monoclinic metallic VO ₂ under high pressure. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	42
35	Fourier-transform inelastic X-ray scattering from time- and momentum-dependent phonon-phonon correlations. <i>Nature Physics</i> , 2013, 9, 790-794.	16.7	149
36	Optical Probing of Ultrafast Electronic Decay in Bi and Sb with Slow Phonons. <i>Physical Review Letters</i> , 2013, 110, 047401.	7.8	57

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37	Free-carrier relaxation and lattice heating in photoexcited bismuth. Physical Review B, 2013, 87, .	3.2	30
38	Real-Time Manifestation of Strongly Coupled Spin and Charge Order Parameters in Stripe-Ordered $\text{La}_{1-x}\text{Sr}_x\text{VO}_3$ Crystals Using Time-Resolved Resonant X-Ray Diffraction. Physical Review Letters, 2013, 110, 127404.	7.8	48
39	Generation and propagation of high-order harmonics in crystals. Physical Review A, 2012, 85, .	2.5	165
40	Single-cycle terahertz pulses with $>0.2\text{ V/\AA}$ field amplitudes via coherent transition radiation. Applied Physics Letters, 2011, 99, .	3.3	74
41	Observation of high-order harmonic generation in a bulk crystal. Nature Physics, 2011, 7, 138-141.	16.7	1,249
42	Thermal transport in a semiconductor heterostructure measured by time-resolved x-ray diffraction. Physical Review B, 2008, 78, .	3.2	19
43	Carrier-induced disordering dynamics in InSb studied with density functional perturbation theory. Physical Review B, 2008, 77, .	3.2	20
44	Probing laser-induced structural changes using coherent phonon detection. , 2008, , .		0
45	Ultrafast Bond Softening in Bismuth: Mapping a Solid's Interatomic Potential with X-rays. Science, 2007, 315, 633-636.	12.6	341
46	Phonon dispersion relations and softening in photoexcited bismuth from first principles. Physical Review B, 2007, 75, .	3.2	69
47	Effect of lattice anharmonicity on high-amplitude phonon dynamics in photoexcited bismuth. Physical Review B, 2005, 72, .	3.2	132
48	Atomic-Scale Visualization of Inertial Dynamics. Science, 2005, 308, 392-395.	12.6	324
49	Picosecond laser-pump, x-ray probe spectroscopy of GaAs. Review of Scientific Instruments, 2002, 73, 4150-4156.	1.3	22
50	Probing Impulsive Strain Propagation with X-Ray Pulses. Physical Review Letters, 2001, 86, 3072-3075.	7.8	160