Jeremy A Johnson

List of Publications by Year
in descending order

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62 papers	1,906 citations	331670 21 h-index	254184 43 g-index
63 all docs	63 docs citations	63 times ranked	2556 citing authors

#	Article	IF	Citations
1	Direct Measurement of Room-Temperature Nondiffusive Thermal Transport Over Micron Distances in a Silicon Membrane. Physical Review Letters, 2013, 110, 025901.	7.8	330
2	Large-Amplitude Spin Dynamics Driven by a THz Pulse in Resonance with an Electromagnon. Science, 2014, 343, 1333-1336.	12.6	255
3	A time-dependent order parameter for ultrafast photoinduced phase transitions. Nature Materials, 2014, 13, 923-927.	27.5	214
4	Coherent Structural Dynamics of a Prototypical Charge-Density-Wave-to-Metal Transition. Physical Review Letters, 2014, 113, 026401.	7.8	97
5	Phase-controlled, heterodyne laser-induced transient grating measurements of thermal transport properties in opaque material. Journal of Applied Physics, 2012, 111, .	2.5	82
6	Anisotropy of the Thermal Conductivity in GaAs/AlAs Superlattices. Nano Letters, 2013, 13, 3973-3977.	9.1	75
7	Distinguishing Nonlinear Terahertz Excitation Pathways with Two-Dimensional Spectroscopy. Physical Review Letters, 2019, 122, 073901.	7.8	68
8	Ultrafast Formation of a Charge Density Wave State in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>1</mml:mn><mml:mi>T</mml:mi><mml:mtext>â^'</mml:mtext><mml:msub><mml:mrow><m : Observation at Nanometer Scales Using Time-Resolved X-Ray Diffraction. Physical Review Letters, 2017, 118, 247401.	7.8	60
9	Experimental investigation of nanofluid shear and longitudinal viscosities. Applied Physics Letters, 2008, 92, 244107.	3.3	52
10	Block co-polyMOFs: assembly of polymerâ€“polyMOF hybrids via iterative exponential growth and â€œclickâ€•chemistry. Polymer Chemistry, 2017, 8, 4488-4493.	3.9	44
11	Terahertz waveform considerations for nonlinearly driving lattice vibrations. Journal of Applied Physics, 2019, 125, .	2.5	44
12	Thermal transport in suspended silicon membranes measured by laser-induced transient gratings. AIP Advances, 2016, 6, .	1.3	40
13	Designing Nonâ€Centrosymmetric Molecular Crystals: Optimal Packing May Be Just One Carbon Away. Advanced Functional Materials, 2020, 30, 1904786.	14.9	40
14	Experimental determination of the interatomic potential in LiNbO3 via ultrafast lattice control. Applied Physics Letters, 2017, 110, .	3.3	35
15	Molecularly Designed Additives for Chemically Deconstructable Thermosets without Compromised Thermomechanical Properties. ACS Macro Letters, 2021, 10, 805-810.	4.8	31
16	Toward broadband mechanical spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 8710-8715.	7.1	26
17	Data Mining for Terahertz Generation Crystals. Advanced Materials, 2022, 34, e2107900.	21.0	26
18	Distortion-free enhancement of terahertz signals measured by electro-optic sampling I Theory. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 904.	2.1	25

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19	Alkynyl Pyridinium Crystals for Terahertz Generation. Advanced Optical Materials, 2018, 6, 1800383.	7.3	25
20	Distortion-free enhancement of terahertz signals measured by electro-optic sampling II Experiment. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 1035.	2.1	24
21	Thermal conductivity of nanoparticle suspensions in insulating media measured with a transient optical grating and a hotwire. Journal of Applied Physics, 2008, 103, 083529.	2.5	23
22	Non-diffusive thermal transport in GaAs at micron length scales. Journal of Applied Physics, 2015, 118, .	2.5	23
23	Comprehensive characterization of terahertz generation with the organic crystal BNA. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 2780.	2.1	23
24	Terahertz generation and optical characteristics of P-BI. Optics Letters, 2019, 44, 4279.	3.3	19
25	Enabling high-power, broadband THz generation with 800-nm pump wavelength. Optics Express, 2021, 29, 38084.	3.4	19
26	High-Acquisition-Rate Single-Shot Pump-Probe Measurements Using Time-Stretching Method. Scientific Reports, 2016, 6, 37614.	3.3	18
27	6MNEP: a molecular cation with large hyperpolarizability and promise for nonlinear optical applications. Journal of Materials Chemistry C, 2020, 8, 11079-11087.	5.5	18
28	Reply to Stadler: Combining network disassembly spectrometry with rheology/spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E1973.	7.1	17
29	Laser-induced plasma generation of terahertz radiation using three incommensurate wavelengths. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 144004.	1.5	15
30	Enhancing terahertz generation from a two-color plasma using optical parametric amplifier waste light. Applied Physics Letters, 2019, 114, .	3.3	14
31	Experimental Evidence of Non-Diffusive Thermal Transport in Si and GaAs. Materials Research Society Symposia Proceedings, 2011, 1347, 1.	0.1	11
32	Quenching of highly vibrationally excited pyrimidine by collisions with CO2. Journal of Chemical Physics, 2008, 128, 054304.	3.0	10
33	Photoacoustic determination of the speed of sound in single crystal cyclotrimethylene trinitramine at acoustic frequencies from 0.5 to 15 GHz. Journal of Applied Physics, 2011, 110, 113513.	2.5	10
34	Fast-frame single-shot pump-probe spectroscopy with chirped-fiber Bragg gratings. Optics Letters, 2019, 44, 163.	3.3	10
35	Collisional Relaxation of the Three Vibrationally Excited Difluorobenzene Isomers by Collisions with CO₂:â€‰ Effect of Donor Vibrational Mode. Journal of Physical Chemistry A, 2008, 112, 1157-1167.	2.5	9
36	Non-equilibrium transient thermal grating relaxation in metal. Journal of Applied Physics, 2011, 109, 073517.	2.5	9

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37	Î±-Scale decoupling of the mechanical relaxation and diverging shear wave propagation length scale in triphenylphosphite. Journal of Chemical Physics, 2012, 136, 174509.	3.0	9
38	Competition between Photochemistry and Energy Transfer in UV-Excited Diazabenzenes. 4. UV Photodissociation of 2,3-, 2,5-, and 2,6-Dimethylpyrazine. Journal of Physical Chemistry A, 2007, 111, 13330-13338.	2.5	8
39	The 2018 Nobel Prize in Physics: optical tweezers and chirped pulse amplification. Analytical and Bioanalytical Chemistry, 2019, 411, 5001-5005.	3.7	8
40	Crystal Growth, Tetrahertz Generation, and Optical Characterization of EHPSI-4NBS. Journal of Physical Chemistry C, 2021, 125, 16097-16102.	3.1	8
41	Terahertz generation of two methoxy stilbazolium crystals: MBST and MBSC. Optical Materials, 2021, 117, 111119.	3.6	8
42	Heterogeneous layered structures for improved terahertz generation. Optics Letters, 2020, 45, 2054.	3.3	6
43	Rotationally Resolved IR-Diode Laser Studies of Ground-State CO₂ Excited by Collisions with Vibrationally Excited Pyridine. Journal of Physical Chemistry A, 2008, 112, 2543-2552.	2.5	4
44	Measurement of a phonon-polariton dispersion curve by varying the excitation wavelength. Physical Review B, 2018, 97, .	3.2	4
45	Simple experimental setup for double-pulse and two-dimensional terahertz spectroscopy. Journal of Applied Physics, 2020, 128, 195107.	2.5	4
46	Decoupling spin-orbital correlations in a layered manganite amidst ultrafast hybridized charge-transfer band excitation. Physical Review B, 2020, 101, .	3.2	3
47	Nonlinear delayed symmetry breaking in a solid excited by hard x-ray free electron laser pulses. Applied Physics Letters, 2015, 106, 154101.	3.3	2
48	Two-dimensional THz Spectroscopy of Multiferroic BiFeO₃. , 2020, , .		1
49	Examining Nonlinear Terahertz Photonic and Phononic Excitation with Two-Dimensional Spectroscopy. , 2019, , .		0
50	High-Acquisition-Rate Single-Shot Pump-Probe Measurement using Chirped-Fiber Bragg Gratings. , 2019, , .		0
51	Direct Comparison Between Multi-Dimensional Terahertz Vibrational Spectroscopies. , 2019, , .		0
52	Custom Terahertz Pulses for Nonlinear Vibrational Excitation. , 2021, , .		0
53	Understanding Nonlinear Phononic Processes with Two- Dimensional Spectroscopy. , 2021, , .		0
54	Predicting 2D THz Spectra Due to Nonlinear Phononics with First-Principles Calculations. , 2021, , .		0

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55	Two-Dimensional Terahertz Spectroscopy of Collective Excitations in Solids. , 2021, , .		0
56	Multi-timescale pump-probe spectroscopy using time-encoding and time-stretching methods. , 2019, , .		0
57	Picking Out Nonlinear Collective Couplings with TwoDimensional Terahertz Spectroscopy. , 2020, , .		0
58	2D THz Studies of GaAs Metamaterials. , 2020, , .		0
59	Extracting Anharmonic Coupling Constants from Beta-Barium Borate. , 2020, , .		0
60	Unpacking Nonlinear Vibrational Excitations in CdWO4. , 2021, , .		0
61	Custom Terahertz Pulses for Nonlinear Vibrational Excitation. , 2021, , .		0
62	Modeling Ultrafast Anharmonic Vibrational Coupling in Gas-Phase Fluorobenzene Molecules. , 2021, , .		0