

# 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	Data Mining for Terahertz Generation Crystals. <i>Advanced Materials</i> , 2022, 34, e2107900.	21.0	26
2	Custom Terahertz Pulses for Nonlinear Vibrational Excitation. , 2021, , .		0
3	Understanding Nonlinear Phononic Processes with Two- Dimensional Spectroscopy. , 2021, , .		0
4	Molecularly Designed Additives for Chemically Deconstructable Thermosets without Compromised Thermomechanical Properties. <i>ACS Macro Letters</i> , 2021, 10, 805-810.	4.8	31
5	Crystal Growth, Tetrahertz Generation, and Optical Characterization of EHPSI-4NBS. <i>Journal of Physical Chemistry C</i> , 2021, 125, 16097-16102.	3.1	8
6	Terahertz generation of two methoxy stilbazolium crystals: MBST and MBSC. <i>Optical Materials</i> , 2021, 117, 111119.	3.6	8
7	Comprehensive characterization of terahertz generation with the organic crystal BNA. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021, 38, 2780.	2.1	23
8	Predicting 2D THz Spectra Due to Nonlinear Phononics with First-Principles Calculations. , 2021, , .		0
9	Two-Dimensional Terahertz Spectroscopy of Collective Excitations in Solids. , 2021, , .		0
10	Enabling high-power, broadband THz generation with 800-nm pump wavelength. <i>Optics Express</i> , 2021, 29, 38084.	3.4	19
11	Unpacking Nonlinear Vibrational Excitations in CdWO <sub>4</sub> . , 2021, , .		0
12	Custom Terahertz Pulses for Nonlinear Vibrational Excitation. , 2021, , .		0
13	Modeling Ultrafast Anharmonic Vibrational Coupling in Gas-Phase Fluorobenzene Molecules. , 2021, , .		0
14	Designing Non-Centrosymmetric Molecular Crystals: Optimal Packing May Be Just One Carbon Away. <i>Advanced Functional Materials</i> , 2020, 30, 1904786.	14.9	40
15	Simple experimental setup for double-pulse and two-dimensional terahertz spectroscopy. <i>Journal of Applied Physics</i> , 2020, 128, 195107.	2.5	4
16	Decoupling spin-orbital correlations in a layered manganite amidst ultrafast hybridized charge-transfer band excitation. <i>Physical Review B</i> , 2020, 101, .	3.2	3
17	6MNEP: a molecular cation with large hyperpolarizability and promise for nonlinear optical applications. <i>Journal of Materials Chemistry C</i> , 2020, 8, 11079-11087.	5.5	18
18	Heterogeneous layered structures for improved terahertz generation. <i>Optics Letters</i> , 2020, 45, 2054.	3.3	6

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19	Picking Out Nonlinear Collective Couplings with TwoDimensional Terahertz Spectroscopy. , 2020, , .		0
20	2D THz Studies of GaAs Metamaterials. , 2020, , .		0
21	Two-dimensional THz Spectroscopy of Multiferroic BiFeO <sub>3</sub> . , 2020, , .		1
22	Extracting Anharmonic Coupling Constants from Beta-Barium Borate. , 2020, , .		0
23	Examining Nonlinear Terahertz Photonic and Phononic Excitation with Two-Dimensional Spectroscopy. , 2019, , .		0
24	High-Acquisition-Rate Single-Shot Pump-Probe Measurement using Chirped-Fiber Bragg Gratings. , 2019, , .		0
25	The 2018 Nobel Prize in Physics: optical tweezers and chirped pulse amplification. Analytical and Bioanalytical Chemistry, 2019, 411, 5001-5005.	3.7	8
26	Terahertz waveform considerations for nonlinearly driving lattice vibrations. Journal of Applied Physics, 2019, 125, .	2.5	44
27	Distinguishing Nonlinear Terahertz Excitation Pathways with Two-Dimensional Spectroscopy. Physical Review Letters, 2019, 122, 073901.	7.8	68
28	Direct Comparison Between Multi-Dimensional Terahertz Vibrational Spectroscopies. , 2019, , .		0
29	Enhancing terahertz generation from a two-color plasma using optical parametric amplifier waste light. Applied Physics Letters, 2019, 114, .	3.3	14
30	Terahertz generation and optical characteristics of P-BI. Optics Letters, 2019, 44, 4279.	3.3	19
31	Fast-frame single-shot pump-probe spectroscopy with chirped-fiber Bragg gratings. Optics Letters, 2019, 44, 163.	3.3	10
32	Multi-timescale pump-probe spectroscopy using time-encoding and time-stretching methods. , 2019, , .		0
33	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
34	Measurement of a phonon-polariton dispersion curve by varying the excitation wavelength. Physical Review B, 2018, 97, .	3.2	4
35	Alkynyl Pyridinium Crystals for Terahertz Generation. Advanced Optical Materials, 2018, 6, 1800383.	7.3	25
36	Experimental determination of the interatomic potential in LiNbO <sub>3</sub> via ultrafast lattice control. Applied Physics Letters, 2017, 110, .	3.3	35

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37	Toward broadband mechanical spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 8710-8715.	7.1	26
38	Block co-polyMOFs: assembly of polymer-polyMOF hybrids via iterative exponential growth and click chemistry. Polymer Chemistry, 2017, 8, 4488-4493.	3.9	44
39	Ultrafast Formation of a Charge Density Wave State in $\text{TaS}_2$ : Observation at Nanometer Scales Using Time-Resolved X-Ray Diffraction. Physical Review Letters, 2017, 118, 247401.	10.0	100
40	Thermal transport in suspended silicon membranes measured by laser-induced transient gratings. AIP Advances, 2016, 6, .	1.3	40
41	High-Acquisition-Rate Single-Shot Pump-Probe Measurements Using Time-Stretching Method. Scientific Reports, 2016, 6, 37614.	3.3	18
42	Non-diffusive thermal transport in GaAs at micron length scales. Journal of Applied Physics, 2015, 118, .	2.5	23
43	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
44	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
45	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
46	Large-Amplitude Spin Dynamics Driven by a THz Pulse in Resonance with an Electromagnon. Science, 2014, 343, 1333-1336.	12.6	255
47	A time-dependent order parameter for ultrafast photoinduced phase transitions. Nature Materials, 2014, 13, 923-927.	27.5	214
48	Coherent Structural Dynamics of a Prototypical Charge-Density-Wave-to-Metal Transition. Physical Review Letters, 2014, 113, 026401.	7.8	97
49	Anisotropy of the Thermal Conductivity in GaAs/AlAs Superlattices. Nano Letters, 2013, 13, 3973-3977.	9.1	75
50	Direct Measurement of Room-Temperature Nondiffusive Thermal Transport Over Micron Distances in a Silicon Membrane. Physical Review Letters, 2013, 110, 025901.	7.8	330
51	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
52	$\hat{\mu}$ -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
53	Phase-controlled, heterodyne laser-induced transient grating measurements of thermal transport properties in opaque material. Journal of Applied Physics, 2012, 111, .	2.5	82
54	Non-equilibrium transient thermal grating relaxation in metal. Journal of Applied Physics, 2011, 109, 073517.	2.5	9

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55	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
56	Experimental Evidence of Non-Diffusive Thermal Transport in Si and GaAs. Materials Research Society Symposia Proceedings, 2011, 1347, 1.	0.1	11
57	Collisional Relaxation of the Three Vibrationally Excited Difluorobenzene Isomers by Collisions with CO <sub>2</sub> : Effect of Donor Vibrational Mode. Journal of Physical Chemistry A, 2008, 112, 1157-1167.	2.5	9
58	Rotationally Resolved IR-Diode Laser Studies of Ground-State CO <sub>2</sub> Excited by Collisions with Vibrationally Excited Pyridine. Journal of Physical Chemistry A, 2008, 112, 2543-2552.	2.5	4
59	Experimental investigation of nanofluid shear and longitudinal viscosities. Applied Physics Letters, 2008, 92, 244107.	3.3	52
60	Quenching of highly vibrationally excited pyrimidine by collisions with CO <sub>2</sub> . Journal of Chemical Physics, 2008, 128, 054304.	3.0	10
61	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
62	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