

# Kyle P Kelley

## List of Publications by Year in descending order

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32  
papers

1,028  
citations

516710

16  
h-index

454955

30  
g-index

33  
all docs

33  
docs citations

33  
times ranked

1193  
citing authors

#	ARTICLE	IF	CITATIONS
1	Femtosecond optical polarization switching using a cadmium oxide-based perfect absorber. <i>Nature Photonics</i> , 2017, 11, 390-395.	31.4	245
2	High-harmonic generation from an epsilon-near-zero material. <i>Nature Physics</i> , 2019, 15, 1022-1026.	16.7	137
3	Epsilon-near-Zero Modes and Surface Plasmon Resonance in Fluorine-Doped Cadmium Oxide Thin Films. <i>ACS Photonics</i> , 2017, 4, 1885-1892.	6.6	69
4	Polaritonic Hybrid-Epsilon-near-Zero Modes: Beating the Plasmonic Confinement vs Propagation-Length Trade-Off with Doped Cadmium Oxide Bilayers. <i>Nano Letters</i> , 2019, 19, 948-957.	9.1	61
5	Automated and Autonomous Experiments in Electron and Scanning Probe Microscopy. <i>ACS Nano</i> , 2021, 15, 12604-12627.	14.6	49
6	Piezoelectric domain walls in van der Waals antiferroelectric CuInP2Se6. <i>Nature Communications</i> , 2020, 11, 3623.	12.8	47
7	High mobility yttrium doped cadmium oxide thin films. <i>APL Materials</i> , 2017, 5, .	5.1	43
8	Long-lived modulation of plasmonic absorption by ballistic thermal injection. <i>Nature Nanotechnology</i> , 2021, 16, 47-51.	31.5	40
9	Fast Scanning Probe Microscopy via Machine Learning: Non-Rectangular Scans with Compressed Sensing and Gaussian Process Optimization. <i>Small</i> , 2020, 16, e2002878.	10.0	37
10	Experimental discovery of structure-property relationships in ferroelectric materials via active learning. <i>Nature Machine Intelligence</i> , 2022, 4, 341-350.	16.0	37
11	Anisotropic epitaxial stabilization of a low-symmetry ferroelectric with enhanced electromechanical response. <i>Nature Materials</i> , 2022, 21, 74-80.	27.5	35
12	Multiple Epsilon-Near-Zero Resonances in Multilayered Cadmium Oxide: Designing Metamaterial-Like Optical Properties in Monolithic Materials. <i>ACS Photonics</i> , 2019, 6, 1139-1145.	6.6	33
13	Viscoelastic optical nonlocality of low-loss epsilon-near-zero nanofilms. <i>Scientific Reports</i> , 2018, 8, 9335.	3.3	30
14	Autonomous Experiments in Scanning Probe Microscopy and Spectroscopy: Choosing Where to Explore Polarization Dynamics in Ferroelectrics. <i>ACS Nano</i> , 2021, 15, 11253-11262.	14.6	23
15	Toward Decoding the Relationship between Domain Structure and Functionality in Ferroelectrics via Hidden Latent Variables. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 1693-1703.	8.0	22
16	Oxygen Vacancy Injection as a Pathway to Enhancing Electromechanical Response in Ferroelectrics. <i>Advanced Materials</i> , 2022, 34, e2106426.	21.0	20
17	Ultraviolet to far-infrared dielectric function of n-doped cadmium oxide thin films. <i>Physical Review Materials</i> , 2020, 4, .	14.4	16
18	Dynamic Manipulation in Piezoresponse Force Microscopy: Creating Nonequilibrium Phases with Large Electromechanical Response. <i>ACS Nano</i> , 2020, 14, 10569-10577.	14.6	14

#	ARTICLE	IF	CITATIONS
19	Mid-wave to near-IR optoelectronic properties and epsilon-near-zero behavior in indium-doped cadmium oxide. <i>Physical Review Materials</i> , 2021, 5, .	2.4	12
20	Phenomenological description of bright domain walls in ferroelectric-antiferroelectric layered chalcogenides. <i>Physical Review B</i> , 2020, 102, .	3.2	10
21	Bayesian inference in band excitation scanning probe microscopy for optimal dynamic model selection in imaging. <i>Journal of Applied Physics</i> , 2020, 128, 054105.	2.5	8
22	Exotic Long-Range Surface Reconstruction on $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ Thin Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 9166-9173.	8.0	6
23	Probing Metastable Domain Dynamics <i>via</i> Automated Experimentation in Piezoresponse Force Microscopy. <i>ACS Nano</i> , 2021, 15, 15096-15103.	14.6	6
24	Unusual electrical conductivity driven by localized stoichiometry modification at vertical epitaxial interfaces. <i>Materials Horizons</i> , 2020, 7, 3217-3225.	12.2	5
25	Decoding the shift-invariant data: applications for band-excitation scanning probe microscopy <sup>*</sup> . <i>Machine Learning: Science and Technology</i> , 2021, 2, 045028.	5.0	5
26	Probing polarization dynamics at specific domain configurations: Computer-vision based automated experiment in piezoresponse force microscopy. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	5
27	Exploring leakage in dielectric films via automated experiments in scanning probe microscopy. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	5
28	Complexities of atomic structure at CdO/MgO and CdO/Al <sub>2</sub> O <sub>3</sub> interfaces. <i>Journal of Applied Physics</i> , 2018, 124, .	2.5	2
29	Tensor factorization for elucidating mechanisms of piezoresponse relaxation via dynamic Piezoresponse Force Spectroscopy. <i>Npj Computational Materials</i> , 2020, 6, .	8.7	2
30	Charge confinement and thermal transport processes in modulation-doped epitaxial crystals lacking lattice interfaces. <i>Physical Review Materials</i> , 2019, 3, .	2.4	2
31	Photonically Tunable MIR Epsilon-Near Zero Modes in CdO Thin Films. , 2018, , .		2
32	Observation of nonlocal optical response in doped-cadmium-oxide epsilon-near-zero thin films. , 2017, , .		0