

# Matthew S Kirschner

## List of Publications by Year in descending order

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Version: 2024-02-01

18  
papers

819  
citations

933447

10  
h-index

839539

18  
g-index

18  
all docs

18  
docs citations

18  
times ranked

1782  
citing authors

#	ARTICLE	IF	CITATIONS
1	Seeded growth of single-crystal two-dimensional covalent organic frameworks. <i>Science</i> , 2018, 361, 52-57.	12.6	474
2	Photoinduced, reversible phase transitions in all-inorganic perovskite nanocrystals. <i>Nature Communications</i> , 2019, 10, 504.	12.8	121
3	Large Exciton Diffusion Coefficients in Two-Dimensional Covalent Organic Frameworks with Different Domain Sizes Revealed by Ultrafast Exciton Dynamics. <i>Journal of the American Chemical Society</i> , 2020, 142, 14957-14965.	13.7	68
4	Size-Dependent Coherent-Phonon Plasmon Modulation and Deformation Characterization in Gold Bipyramids and Nanoplates. <i>ACS Photonics</i> , 2016, 3, 758-763.	6.6	24
5	Transient Melting and Recrystallization of Semiconductor Nanocrystals Under Multiple Electron-Hole Pair Excitation. <i>Nano Letters</i> , 2017, 17, 5314-5320.	9.1	23
6	Direct Observation of Bandgap Oscillations Induced by Optical Phonons in Hybrid Lead Iodide Perovskites. <i>Advanced Functional Materials</i> , 2020, 30, 1907982.	14.9	15
7	Phonon-Driven Oscillatory Plasmonic Excitonic Nanomaterials. <i>Nano Letters</i> , 2018, 18, 442-448.	9.1	14
8	Auger Heating and Thermal Dissipation in Zero-Dimensional CdSe Nanocrystals Examined Using Femtosecond Stimulated Raman Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 4481-4487.	4.6	14
9	Optical and Physical Probing of Thermal Processes in Semiconductor and Plasmonic Nanocrystals. <i>Annual Review of Physical Chemistry</i> , 2019, 70, 353-377.	10.8	13
10	Transient Lattice Response upon Photoexcitation in CuInSe <sub>2</sub> Nanocrystals with Organic or Inorganic Surface Passivation. <i>ACS Nano</i> , 2020, 14, 13548-13556.	14.6	10
11	Optical Signatures of Transiently Disordered Semiconductor Nanocrystals. <i>ACS Nano</i> , 2018, 12, 10008-10015.	14.6	9
12	Anisotropic Transient Disorder of Colloidal, Two-Dimensional CdSe Nanoplatelets upon Optical Excitation. <i>Nano Letters</i> , 2021, 21, 1288-1294.	9.1	8
13	Layered structures of assembled imine-linked macrocycles and two-dimensional covalent organic frameworks give rise to prolonged exciton lifetimes. <i>Journal of Materials Chemistry C</i> , 2022, 10, 3015-3026.	5.5	7
14	Photophysical implications of ring fusion, linker length, and twisting angle in a series of peryleneimide-thienoacene dimers. <i>Chemical Science</i> , 2020, 11, 7133-7143.	7.4	6
15	Shaped incoherent light for control of kinetics: Optimization of up-conversion hues in phosphors. <i>Journal of Chemical Physics</i> , 2018, 149, 054201.	3.0	5
16	Effects of Intra- and Interchain Interactions on Exciton Dynamics of PTB7 Revealed by Model Oligomers. <i>Molecules</i> , 2020, 25, 2441.	3.8	4
17	Phonon-induced plasmon-exciton coupling changes probed via oscillation-associated spectra. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	3
18	Phase control of coherent acoustic phonons in gold bipyramids for optical memory and manipulating plasmon-exciton coupling. <i>Applied Physics Letters</i> , 2020, 116, 153102.	3.3	1