

Brent A Koscher

List of Publications by Year in descending order

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12
papers

2,695
citations

840776

11
h-index

1125743

13
g-index

13
all docs

13
docs citations

13
times ranked

4247
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly Luminescent Colloidal Nanoplates of Perovskite Cesium Lead Halide and Their Oriented Assemblies. <i>Journal of the American Chemical Society</i> , 2015, 137, 16008-16011.	13.7	1,004
2	Essentially Trap-Free CsPbBr ₃ Colloidal Nanocrystals by Postsynthetic Thiocyanate Surface Treatment. <i>Journal of the American Chemical Society</i> , 2017, 139, 6566-6569.	13.7	711
3	Design Principles for Trap-Free CsPbX ₃ Nanocrystals: Enumerating and Eliminating Surface Halide Vacancies with Softer Lewis Bases. <i>Journal of the American Chemical Society</i> , 2018, 140, 17760-17772.	13.7	446
4	Redefining near-unity luminescence in quantum dots with photothermal threshold quantum yield. <i>Science</i> , 2019, 363, 1199-1202.	12.6	190
5	Surface- vs Diffusion-Limited Mechanisms of Anion Exchange in CsPbBr ₃ Nanocrystal Cubes Revealed through Kinetic Studies. <i>Journal of the American Chemical Society</i> , 2016, 138, 12065-12068.	13.7	131
6	Toward Machine Learning-Enhanced High-Throughput Experimentation. <i>Trends in Chemistry</i> , 2021, 3, 120-132.	8.5	66
7	Excitation Intensity Dependence of Photoluminescence Blinking in CsPbBr ₃ Perovskite Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2018, 122, 12106-12113.	3.1	58
8	Dynamic lattice distortions driven by surface trapping in semiconductor nanocrystals. <i>Nature Communications</i> , 2021, 12, 1860.	12.8	19
9	Applications of a Bis-Urea Phenylethynylene Self-Assembled Nanoreactor for [2 + 2] Photodimerizations. <i>Journal of Physical Chemistry A</i> , 2014, 118, 10563-10574.	2.5	18
10	The Underlying Chemical Mechanism of Selective Chemical Etching in CsPbBr ₃ Nanocrystals for Reliably Accessing Near-Unity Emitters. <i>ACS Nano</i> , 2019, 13, 11825-11833.	14.6	18
11	Perovskite-Carbon Nanotube Light-Emitting Fibers. <i>Nano Letters</i> , 2020, 20, 3178-3184.	9.1	18
12	Outdoor performance of a tandem InGaP/Si photovoltaic luminescent solar concentrator. <i>Solar Energy Materials and Solar Cells</i> , 2021, 223, 110945.	6.2	13