Brent A Koscher

List of Publications by Year
in descending order

12	2,695	840776 11	1125743 13
papers	citations	h-index	g-index

13	13	13	4247
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Toward Machine Learning-Enhanced High-Throughput Experimentation. Trends in Chemistry, 2021, 3, 120-132.	8.5	66
2	Dynamic lattice distortions driven by surface trapping in semiconductor nanocrystals. Nature Communications, 2021, 12, 1860.	12.8	19
3	Outdoor performance of a tandem InGaP/Si photovoltaic luminescent solar concentrator. Solar Energy Materials and Solar Cells, 2021, 223, 110945.	6.2	13
4	Perovskite-Carbon Nanotube Light-Emitting Fibers. Nano Letters, 2020, 20, 3178-3184.	9.1	18
5	The Underlying Chemical Mechanism of Selective Chemical Etching in CsPbBr₃ Nanocrystals for Reliably Accessing Near-Unity Emitters. ACS Nano, 2019, 13, 11825-11833.	14.6	18
6	Redefining near-unity luminescence in quantum dots with photothermal threshold quantum yield. Science, 2019, 363, 1199-1202.	12.6	190
7	Design Principles for Trap-Free CsPbX₃ Nanocrystals: Enumerating and Eliminating Surface Halide Vacancies with Softer Lewis Bases. Journal of the American Chemical Society, 2018, 140, 17760-17772.	13.7	446
8	Excitation Intensity Dependence of Photoluminescence Blinking in CsPbBr₃ Perovskite Nanocrystals. Journal of Physical Chemistry C, 2018, 122, 12106-12113.	3.1	58
9	Essentially Trap-Free CsPbBr₃ Colloidal Nanocrystals by Postsynthetic Thiocyanate Surface Treatment. Journal of the American Chemical Society, 2017, 139, 6566-6569.	13.7	711
10	Surface- vs Diffusion-Limited Mechanisms of Anion Exchange in CsPbBr₃ Nanocrystal Cubes Revealed through Kinetic Studies. Journal of the American Chemical Society, 2016, 138, 12065-12068.	13.7	131
11	Highly Luminescent Colloidal Nanoplates of Perovskite Cesium Lead Halide and Their Oriented Assemblies. Journal of the American Chemical Society, 2015, 137, 16008-16011.	13.7	1,004
12	Applications of a Bis-Urea Phenylethynylene Self-Assembled Nanoreactor for [2 + 2] Photodimerizations. Journal of Physical Chemistry A, 2014, 118, 10563-10574.	2.5	18