John P Philbin

List of Publications by Year
in descending order

19	510	623188 14	887659 17
papers	citations	h-index	g-index

19	19	19	838
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Colloidal Atomic Layer Deposition with Stationary Reactant Phases Enables Precise Synthesis of â€œDigitalâ€•Iiâ€“VI Nano-heterostructures with Exquisite Control of Confinement and Strain. Journal of the American Chemical Society, 2019, 141, 13487-13496.	6.6	58
2	Electronâ€“Hole Correlations Govern Auger Recombination in Nanostructures. Nano Letters, 2018, 18, 7889-7895.	4.5	54
3	Semiconductor Seeded Nanorods with Graded Composition Exhibiting High Quantum-Yield, High Polarization, and Minimal Blinking. Nano Letters, 2017, 17, 2524-2531.	4.5	51
4	Charge Carrier Dynamics in Photocatalytic Hybrid Semiconductorâ€“Metal Nanorods: Crossover from Auger Recombination to Charge Transfer. Nano Letters, 2018, 18, 5211-5216.	4.5	49
5	Resilient Pathways to Atomic Attachment of Quantum Dot Dimers and Artificial Solids from Faceted CdSe Quantum Dot Building Blocks. ACS Nano, 2019, 13, 12322-12344.	7.3	36
6	Determination of the In-Plane Exciton Radius in 2D CdSe Nanoplatelets via Magneto-optical Spectroscopy. ACS Nano, 2019, 13, 8589-8596.	7.3	35
7	Auger Recombination Lifetime Scaling for Type I and Quasi-Type II Core/Shell Quantum Dots. Journal of Physical Chemistry Letters, 2020, 11, 5132-5138.	2.1	30
8	Colloidal Synthesis Path to 2D Crystalline Quantum Dot Superlattices. ACS Nano, 2021, 15, 2251-2262.	7.3	30
9	Synthesis of Enantiopure, Trisubstituted Cryptophane-A Derivatives. Organic Letters, 2012, 14, 3580-3583.	2.4	29
10	Programming A Molecular Relay for Ultrasensitive Biodetection through ¹²⁹Xeâ€...NMR. Angewandte Chemie - International Edition, 2016, 55, 1733-1736.	7.2	26
11	Area and thickness dependence of Auger recombination in nanoplatelets. Journal of Chemical Physics, 2020, 153, 054104.	1.2	25
12	Uncovering the Role of Hole Traps in Promoting Hole Transfer from Multiexcitonic Quantum Dots to Molecular Acceptors. ACS Nano, 2021, 15, 2281-2291.	7.3	21
13	Dynamic lattice distortions driven by surface trapping in semiconductor nanocrystals. Nature Communications, 2021, 12, 1860.	5.8	19
14	Sub-Bandgap Photoinduced Transient Absorption Features in CdSe Nanostructures: The Role of Trapped Holes. Journal of Physical Chemistry C, 2020, 124, 17372-17378.	1.5	18
15	Catalytic Transformations of 1-Butene over Palladium. A Combined Experimental and Theoretical Study. ACS Catalysis, 2018, 8, 5675-5685.	5.5	14
16	Simulations of nonradiative processes in semiconductor nanocrystals. Journal of Chemical Physics, 2022, 157, .	1.2	12
17	Computational Materials Insights Into Solid-State Multiqubit Systems. PRX Quantum, 2021, 2, .	3.5	3
18	Berichtigung: Programming A Molecular Relay for Ultrasensitive Biodetection through ¹²⁹Xe NMR. Angewandte Chemie, 2016, 128, 13134-13134.	1.6	0

#	Article	IF	Citations
19	Asymmetric Spin Transport in Colloidal Quantum Dot Junctions. Journal of Physical Chemistry C, 0, , .	1.5	0