Alina M Schimpf

List of Publications by Year
in descending order

28 papers	1,525 citations	331670 21 h-index	501196 28 g-index
28 all docs	28 docs citations	28 times ranked	2086 citing authors

#	Article	IF	Citations
1	Nb-Doped Colloidal TiO₂ Nanocrystals with Tunable Infrared Absorption. Chemistry of Materials, 2013, 25, 3383-3390.	6.7	177
2	Charge-Tunable Quantum Plasmons in Colloidal Semiconductor Nanocrystals. ACS Nano, 2014, 8, 1065-1072.	14.6	134
3	Photochemical Electronic Doping of Colloidal CdSe Nanocrystals. Journal of the American Chemical Society, 2013, 135, 18782-18785.	13.7	132
4	Redox Chemistries and Plasmon Energies of Photodoped In₂O₃ and Sn-Doped In₂O₃ (ITO) Nanocrystals. Journal of the American Chemical Society, 2015, 137, 518-524.	13.7	132
5	Controlling Carrier Densities in Photochemically Reduced Colloidal ZnO Nanocrystals: Size Dependence and Role of the Hole Quencher. Journal of the American Chemical Society, 2013, 135, 16569-16577.	13.7	117
6	Electronic Doping and Redox-Potential Tuning in Colloidal Semiconductor Nanocrystals. Accounts of Chemical Research, 2015, 48, 1929-1937.	15.6	111
7	Size-Dependent Trap-Assisted Auger Recombination in Semiconductor Nanocrystals. Nano Letters, 2013, 13, 1810-1815.	9.1	89
8	Comparison of extra electrons in colloidal n-type Al3+-doped and photochemically reduced ZnO nanocrystals. Chemical Communications, 2012, 48, 9352.	4.1	70
9	Size Dependence of Negative Trion Auger Recombination in Photodoped CdSe Nanocrystals. Nano Letters, 2014, 14, 353-358.	9.1	67
10	Low Capping Group Surface Density on Zinc Oxide Nanocrystals. ACS Nano, 2014, 8, 9463-9470.	14.6	64
11	Redox Potentials of Colloidal n-Type ZnO Nanocrystals: Effects of Confinement, Electron Density, and Fermi-Level Pinning by Aldehyde Hydrogenation. Journal of the American Chemical Society, 2015, 137, 11163-11169.	13.7	47
12	Proton-Controlled Reduction of ZnO Nanocrystals: Effects of Molecular Reductants, Cations, and Thermodynamic Limitations. Journal of the American Chemical Society, 2016, 138, 1377-1385.	13.7	47
13	Co²⁺-Linked [NaP₅W₃₀O₁₁₀]^{14â^'}: A Redox-Active Metal Oxide Framework with High Electron Density. Journal of the American Chemical Society, 2019, 141, 4553-4557.	13.7	35
14	Theoretical Characterization of Conduction-Band Electrons in Photodoped and Aluminum-Doped Zinc Oxide (AZO) Quantum Dots. Journal of Physical Chemistry C, 2014, 118, 26584-26590.	3.1	31
15	Cationâ€Controlled Assembly of Polyoxotungstateâ€Based Coordination Networks. Angewandte Chemie - International Edition, 2020, 59, 16609-16615.	13.8	31
16	Cyclotron Splittings in the Plasmon Resonances of Electronically Doped Semiconductor Nanocrystals Probed by Magnetic Circular Dichroism Spectroscopy. Journal of Physical Chemistry Letters, 2017, 8, 1831-1836.	4.6	29
17	Tunable Metal Oxide Frameworks via Coordination Assembly of Preyssler-Type Molecular Clusters. Journal of the American Chemical Society, 2019, 141, 20261-20268.	13.7	28
18	Using ligands to control reactivity, size and phase in the colloidal synthesis of WSe₂ nanocrystals. Chemical Communications, 2019, 55, 8856-8859.	4.1	27

#	Article	IF	Citations
19	Surface Contributions to Mn2+ Spin Dynamics in Colloidal Doped Quantum Dots. Journal of Physical Chemistry Letters, 2015, 6, 457-463.	4.6	25
20	Strength of Axial Water Ligation in Substrate-Free Cytochrome P450s Is Isoform Dependent. Biochemistry, 2014, 53, 1428-1434.	2.5	24
21	Cationâ€Controlled Assembly of Polyoxotungstateâ€Based Coordination Networks. Angewandte Chemie, 2020, 132, 16752.	2.0	22
22	Drug Modulation of Waterâ€“Heme Interactions in Low-Spin P450 Complexes of CYP2C9d and CYP125A1. Biochemistry, 2015, 54, 1198-1207.	2.5	18
23	Charge-State Control of Mn²⁺ Spin Relaxation Dynamics in Colloidal n-Type Zn_{1â€“x}Mn_xO Nanocrystals. Journal of Physical Chemistry Letters, 2015, 6, 1748-1753.	4.6	17
24	Thermal Tuning and Inversion of Excitonic Zeeman Splittings in Colloidal Doped CdSe Quantum Dots. Journal of Physical Chemistry Letters, 2012, 3, 1264-1268.	4.6	16
25	Colloidal Synthesis of Tunable Copper Phosphide Nanocrystals. Chemistry of Materials, 2021, 33, 1394-1406.	6.7	14
26	Manipulation of Precursor Reactivity for the Facile Synthesis of Heterostructured and Hollow Metal Selenide Nanocrystals. Chemistry of Materials, 2020, 32, 2304-2312.	6.7	11
27	Photochemical reduction of nanocrystalline maghemite to magnetite. Nanoscale, 2021, 13, 17465-17472.	5.6	6
28	Comment on â€œHgS and HgS/CdS Colloidal Quantum Dots with Infrared Intraband Transitions and Emergence of a Surface Plasmonâ€. Journal of Physical Chemistry C, 2016, 120, 28900-28902.	3.1	4