

Kathryn E Knowles

List of Publications by Year in descending order

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35
papers

3,083
citations

218677

26
h-index

377865

34
g-index

35
all docs

35
docs citations

35
times ranked

4175
citing authors

#	ARTICLE	IF	CITATIONS
1	A Homogeneous System for the Photogeneration of Hydrogen from Water Based on a Platinum(II) Terpyridyl Acetylidyne Chromophore and a Molecular Cobalt Catalyst. <i>Journal of the American Chemical Society</i> , 2008, 130, 12576-12577.	13.7	433
2	Luminescent Colloidal Semiconductor Nanocrystals Containing Copper: Synthesis, Photophysics, and Applications. <i>Chemical Reviews</i> , 2016, 116, 10820-10851.	47.7	288
3	Nanocrystals for Luminescent Solar Concentrators. <i>Nano Letters</i> , 2015, 15, 1315-1323.	9.1	241
4	The Effect of a Common Purification Procedure on the Chemical Composition of the Surfaces of CdSe Quantum Dots Synthesized with Trioctylphosphine Oxide. <i>Journal of Physical Chemistry C</i> , 2010, 114, 897-906.	3.1	207
5	Singlet-Triplet Splittings in the Luminescent Excited States of Colloidal Cu ⁺ CdSe, Cu ⁺ InP, and CuInS ₂ Nanocrystals: Charge-Transfer Configurations and Self-Trapped Excitons. <i>Journal of the American Chemical Society</i> , 2015, 137, 13138-13147.	13.7	193
6	A Multi-Timescale Map of Radiative and Nonradiative Decay Pathways for Excitons in CdSe Quantum Dots. <i>ACS Nano</i> , 2011, 5, 2026-2035.	14.6	174
7	Charge Carrier Resolved Relaxation of the First Excitonic State in CdSe Quantum Dots Probed with Near-Infrared Transient Absorption Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2010, 114, 14514-14520.	2.6	126
8	Electronic Doping and Redox-Potential Tuning in Colloidal Semiconductor Nanocrystals. <i>Accounts of Chemical Research</i> , 2015, 48, 1929-1937.	15.6	111
9	Chemical Control of the Photoluminescence of CdSe Quantum Dot/Organic Complexes with a Series of Para-Substituted Aniline Ligands. <i>Journal of the American Chemical Society</i> , 2010, 132, 1041-1050.	13.7	110
10	Dual-Time Scale Photoinduced Electron Transfer from PbS Quantum Dots to a Molecular Acceptor. <i>Journal of the American Chemical Society</i> , 2012, 134, 12470-12473.	13.7	100
11	Photoluminescence Blinking and Reversible Electron Trapping in Copper-Doped CdSe Nanocrystals. <i>Nano Letters</i> , 2015, 15, 4045-4051.	9.1	95
12	Bright CuInS ₂ /CdS nanocrystal phosphors for high-gain full-spectrum luminescent solar concentrators. <i>Chemical Communications</i> , 2015, 51, 9129-9132.	4.1	91
13	Triplet State Formation in Photoexcited Slip-Stacked Perylene-3,4:9,10-bis(dicarboximide) Dimers on a Xanthene Scaffold. <i>Journal of Physical Chemistry A</i> , 2013, 117, 10333-10345.	2.5	89
14	Colloidal Quantum Dots: Think Outside the (Particle-in-a-)Box. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 18-26.	4.6	86
15	Surface-Amplified Ligand Disorder in CdSe Quantum Dots Determined by Electron and Coherent Vibrational Spectroscopies. <i>Journal of the American Chemical Society</i> , 2011, 133, 7476-7481.	13.7	80
16	Single-Particle Photoluminescence Spectra, Blinking, and Delayed Luminescence of Colloidal CuInS ₂ Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2016, 120, 17136-17142.	3.1	76
17	A Quantitative Description of the Binding Equilibria of para-Substituted Aniline Ligands and CdSe Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2010, 114, 22526-22534.	3.1	69
18	Exciton Dissociation within Quantum Dot/Organic Complexes: Mechanisms, Use as a Probe of Interfacial Structure, and Applications. <i>Journal of Physical Chemistry C</i> , 2013, 117, 10229-10243.	3.1	69

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19	Gating of hole transfer from photoexcited PbS quantum dots to aminoferrocene by the ligand shell of the dots. <i>Chemical Communications</i> , 2013, 49, 4400-4402.	4.1	66
20	Review of the synthesis and properties of colloidal quantum dots: the evolving role of coordinating surface ligands. <i>Journal of Coordination Chemistry</i> , 2012, 65, 2391-2414.	2.2	51
21	Three applications of ultrafast transient absorption spectroscopy of semiconductor thin films: spectroelectrochemistry, microscopy, and identification of thermal contributions. <i>Journal of Materials Chemistry C</i> , 2018, 6, 11853-11867.	5.5	47
22	One-Pot Synthesis of Monodisperse Colloidal Copper-Doped CdSe Nanocrystals Mediated by Ligand-Copper Interactions. <i>Chemistry of Materials</i> , 2016, 28, 7375-7384.	6.7	45
23	Cation Distribution in Spinel Ferrite Nanocrystals: Characterization, Impact on their Physical Properties, and Opportunities for Synthetic Control. <i>Inorganic Chemistry</i> , 2021, 60, 4291-4305.	4.0	41
24	Electron Transfer as a Probe of the Permeability of Organic Monolayers on the Surfaces of Colloidal PbS Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2013, 117, 15849-15857.	3.1	38
25	Tunneling in the Delayed Luminescence of Colloidal CdSe, Cu-Doped CdSe, and CuInS ₂ Semiconductor Nanocrystals and Relationship to Blinking. <i>Journal of Physical Chemistry C</i> , 2016, 120, 27040-27049.	3.1	35
26	Spontaneous Multielectron Transfer from the Surfaces of PbS Quantum Dots to Tetracyanoquinodimethane. <i>Journal of the American Chemical Society</i> , 2013, 135, 7264-7271.	13.7	27
27	Direct Solvothermal Synthesis of Phase-Pure Colloidal NiO Nanocrystals. <i>Chemistry of Materials</i> , 2020, 32, 2004-2013.	6.7	18
28	Heterometallic trinuclear oxo-centered clusters as single-source precursors for synthesis of stoichiometric monodisperse transition metal ferrite nanocrystals. <i>Dalton Transactions</i> , 2020, 49, 16348-16358.	3.3	15
29	Thermally Activated Optical Absorption into Polaronic States in Hematite. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3343-3351.	4.6	15
30	Correlation between Surface Chemistry and Optical Properties in Colloidal Cu ₂ O Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2020, 124, 4810-4819.	3.1	13
31	Role of aliphatic ligands and solvent composition in the solvothermal synthesis of iron oxide nanocrystals. <i>Polyhedron</i> , 2019, 157, 54-62.	2.2	12
32	Strong Dependence of Quantum-Dot Delayed Luminescence on Excitation Pulse Width. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3997-4003.	4.6	11
33	Modelling local structural and electronic consequences of proton and hydrogen-atom uptake in VO ₂ with polyoxovanadate clusters. <i>Chemical Science</i> , 2021, 12, 12744-12753.	7.4	9
34	Evaluation of electrochemical properties of nanostructured metal oxide electrodes immersed in redox-inactive organic media. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 17904-17916.	2.8	2
35	Excitonic Dynamics of Quantum Dots Monitored by Near-Infrared Transient Absorption. , 2010, , .		0