Kathryn E Knowles

List of Publications by Year
in descending order

35	3,083	218677	377865
papers	citations	26 h-index	34 g-index

35	35	35	4175
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Modelling local structural and electronic consequences of proton and hydrogen-atom uptake in VO₂ with polyoxovanadate clusters. Chemical Science, 2021, 12, 12744-12753.	7.4	9
2	Thermally Activated Optical Absorption into Polaronic States in Hematite. Journal of Physical Chemistry Letters, 2021, 12, 3343-3351.	4.6	15
3	Cation Distribution in Spinel Ferrite Nanocrystals: Characterization, Impact on their Physical Properties, and Opportunities for Synthetic Control. Inorganic Chemistry, 2021, 60, 4291-4305.	4.0	41
4	Evaluation of electrochemical properties of nanostructured metal oxide electrodes immersed in redox-inactive organic media. Physical Chemistry Chemical Physics, 2021, 23, 17904-17916.	2.8	2
5	Heterometallic trinuclear oxo-centered clusters as single-source precursors for synthesis of stoichiometric monodisperse transition metal ferrite nanocrystals. Dalton Transactions, 2020, 49, 16348-16358.	3.3	15
6	Direct Solvothermal Synthesis of Phase-Pure Colloidal NiO Nanocrystals. Chemistry of Materials, 2020, 32, 2004-2013.	6.7	18
7	Correlation between Surface Chemistry and Optical Properties in Colloidal Cu₂O Nanoparticles. Journal of Physical Chemistry C, 2020, 124, 4810-4819.	3.1	13
8	Role of aliphatic ligands and solvent composition in the solvothermal synthesis of iron oxide nanocrystals. Polyhedron, 2019, 157, 54-62.	2.2	12
9	Three applications of ultrafast transient absorption spectroscopy of semiconductor thin films: spectroelectrochemistry, microscopy, and identification of thermal contributions. Journal of Materials Chemistry C, 2018, 6, 11853-11867.	5.5	47
10	Strong Dependence of Quantum-Dot Delayed Luminescence on Excitation Pulse Width. Journal of Physical Chemistry Letters, 2017, 8, 3997-4003.	4.6	11
11	Single-Particle Photoluminescence Spectra, Blinking, and Delayed Luminescence of Colloidal CuInS₂ Nanocrystals. Journal of Physical Chemistry C, 2016, 120, 17136-17142.	3.1	76
12	Luminescent Colloidal Semiconductor Nanocrystals Containing Copper: Synthesis, Photophysics, and Applications. Chemical Reviews, 2016, 116, 10820-10851.	47.7	288
13	One-Pot Synthesis of Monodisperse Colloidal Copper-Doped CdSe Nanocrystals Mediated by Ligandâ€“Copper Interactions. Chemistry of Materials, 2016, 28, 7375-7384.	6.7	45
14	Tunneling in the Delayed Luminescence of Colloidal CdSe, Cu⁺-Doped CdSe, and CuInS₂ Semiconductor Nanocrystals and Relationship to Blinking. Journal of Physical Chemistry C, 2016, 120, 27040-27049.	3.1	35
15	Photoluminescence Blinking and Reversible Electron Trapping in Copper-Doped CdSe Nanocrystals. Nano Letters, 2015, 15, 4045-4051.	9.1	95
16	Nanocrystals for Luminescent Solar Concentrators. Nano Letters, 2015, 15, 1315-1323.	9.1	241
17	Electronic Doping and Redox-Potential Tuning in Colloidal Semiconductor Nanocrystals. Accounts of Chemical Research, 2015, 48, 1929-1937.	15.6	111
18	Bright CuInS₂/CdS nanocrystal phosphors for high-gain full-spectrum luminescent solar concentrators. Chemical Communications, 2015, 51, 9129-9132.	4.1	91

#	Article	IF	Citations
19	Singletâ€“Triplet Splittings in the Luminescent Excited States of Colloidal Cu⁺:CdSe, Cu⁺:InP, and CuInS₂ Nanocrystals: Charge-Transfer Configurations and Self-Trapped Excitons. Journal of the American Chemical Society, 2015, 137, 13138-13147.	13.7	193
20	Electron Transfer as a Probe of the Permeability of Organic Monolayers on the Surfaces of Colloidal PbS Quantum Dots. Journal of Physical Chemistry C, 2013, 117, 15849-15857.	3.1	38
21	Triplet State Formation in Photoexcited Slip-Stacked Perylene-3,4:9,10-bis(dicarboximide) Dimers on a Xanthene Scaffold. Journal of Physical Chemistry A, 2013, 117, 10333-10345.	2.5	89
22	Spontaneous Multielectron Transfer from the Surfaces of PbS Quantum Dots to Tetracyanoquinodimethane. Journal of the American Chemical Society, 2013, 135, 7264-7271.	13.7	27
23	Gating of hole transfer from photoexcited PbS quantum dots to aminoferrocene by the ligand shell of the dots. Chemical Communications, 2013, 49, 4400-4402.	4.1	66
24	Exciton Dissociation within Quantum Dotâ€“Organic Complexes: Mechanisms, Use as a Probe of Interfacial Structure, and Applications. Journal of Physical Chemistry C, 2013, 117, 10229-10243.	3.1	69
25	Dual-Time Scale Photoinduced Electron Transfer from PbS Quantum Dots to a Molecular Acceptor. Journal of the American Chemical Society, 2012, 134, 12470-12473.	13.7	100
26	Review of the synthesis and properties of colloidal quantum dots: the evolving role of coordinating surface ligands. Journal of Coordination Chemistry, 2012, 65, 2391-2414.	2.2	51
27	Colloidal Quantum Dots: Think Outside the (Particle-in-a-)Box. Journal of Physical Chemistry Letters, 2012, 3, 18-26.	4.6	86
28	A Multi-Timescale Map of Radiative and Nonradiative Decay Pathways for Excitons in CdSe Quantum Dots. ACS Nano, 2011, 5, 2026-2035.	14.6	174
29	Surface-Amplified Ligand Disorder in CdSe Quantum Dots Determined by Electron and Coherent Vibrational Spectroscopies. Journal of the American Chemical Society, 2011, 133, 7476-7481.	13.7	80
30	Charge Carrier Resolved Relaxation of the First Excitonic State in CdSe Quantum Dots Probed with Near-Infrared Transient Absorption Spectroscopy. Journal of Physical Chemistry B, 2010, 114, 14514-14520.	2.6	126
31	The Effect of a Common Purification Procedure on the Chemical Composition of the Surfaces of CdSe Quantum Dots Synthesized with Trioctylphosphine Oxide. Journal of Physical Chemistry C, 2010, 114, 897-906.	3.1	207
32	Chemical Control of the Photoluminescence of CdSe Quantum Dotâ€'Organic Complexes with a Series of Para-Substituted Aniline Ligands. Journal of the American Chemical Society, 2010, 132, 1041-1050.	13.7	110
33	A Quantitative Description of the Binding Equilibria of para-Substituted Aniline Ligands and CdSe Quantum Dots. Journal of Physical Chemistry C, 2010, 114, 22526-22534.	3.1	69
34	Excitonic Dynamics of Quantum Dots Monitored by Near-Infrared Transient Absorption. , 2010, , .		0
35	A Homogeneous System for the Photogeneration of Hydrogen from Water Based on a Platinum(II) Terpyridyl Acetylide Chromophore and a Molecular Cobalt Catalyst. Journal of the American Chemical Society, 2008, 130, 12576-12577.	13.7	433