

Mikhail Zamkov

List of Publications by Year in descending order

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56
papers

2,561
citations

186265
28
h-index

189892
50
g-index

56
all docs

56
docs citations

56
times ranked

3850
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct observation of triplet energy transfer from semiconductor nanocrystals. <i>Science</i> , 2016, 351, 369-372.	12.6	336
2	The Role of Hole Localization in Sacrificial Hydrogen Production by Semiconductorâ€Metal Heterostructured Nanocrystals. <i>Nano Letters</i> , 2011, 11, 2919-2926.	9.1	187
3	Suppression of the Plasmon Resonance in Au/CdS Colloidal Nanocomposites. <i>Nano Letters</i> , 2011, 11, 1792-1799.	9.1	173
4	Radiative Recombination of Spatially Extended Excitons in (ZnSe/CdS)/CdS Heterostructured Nanorods. <i>Journal of the American Chemical Society</i> , 2009, 131, 1328-1334.	13.7	129
5	Thermally activated delayed photoluminescence from pyrenyl-functionalized CdSe quantum dots. <i>Nature Chemistry</i> , 2018, 10, 225-230.	13.6	129
6	Synthesis and Characterization of Type II ZnSe/CdS Core/Shell Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2008, 112, 9301-9307.	3.1	91
7	Energy Transfer in Quantum Dot Solids. <i>ACS Energy Letters</i> , 2017, 2, 154-160.	17.4	87
8	Improving the Catalytic Activity of Semiconductor Nanocrystals through Selective Domain Etching. <i>Nano Letters</i> , 2013, 13, 2016-2023.	9.1	84
9	Synthesis of PbS/TiO ₂ Colloidal Heterostructures for Photovoltaic Applications. <i>Journal of Physical Chemistry C</i> , 2010, 114, 12496-12504.	3.1	81
10	Enhanced Lifetime of Excitons in Nonepitaxial Au/CdS Core/Shell Nanocrystals. <i>ACS Nano</i> , 2014, 8, 352-361.	14.6	81
11	Composition-Tunable Properties of CdS _x Te _{1-x} Alloy Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2008, 112, 12795-12800.	3.1	72
12	Mapping the Exciton Diffusion in Semiconductor Nanocrystal Solids. <i>ACS Nano</i> , 2015, 9, 2926-2937.	14.6	56
13	Fabrication of All-Inorganic Nanocrystal Solids through Matrix Encapsulation of Nanocrystal Arrays. <i>Journal of the American Chemical Society</i> , 2011, 133, 20488-20499.	13.7	50
14	Plasmonic Nanocrystal Solar Cells Utilizing Strongly Confined Radiation. <i>ACS Nano</i> , 2014, 8, 12549-12559.	14.6	50
15	Dye-sensitized photovoltaic properties of hydrothermally prepared TiO ₂ nanotubes. <i>Energy and Environmental Science</i> , 2011, 4, 998.	30.8	49
16	Infrared Emitting PbS Nanocrystal Solids through Matrix Encapsulation. <i>Chemistry of Materials</i> , 2014, 26, 4256-4264.	6.7	47
17	Photocatalytic Applications of Colloidal Heterostructured Nanocrystals: Whatâ€™s Next?. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 4352-4359.	4.6	47
18	Tuning the Morphology of Au/CdS Nanocomposites through Temperature-Controlled Reduction of Gold-Oleate Complexes. <i>Chemistry of Materials</i> , 2010, 22, 5929-5936.	6.7	44

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19	One-Dimensional Carrier Confinement in Giant CdS/CdSe Excitonic Nanoshells. <i>Journal of the American Chemical Society</i> , 2017, 139, 7815-7822.	13.7	44
20	Challenges and Prospects of Photocatalytic Applications Utilizing Semiconductor Nanocrystals. <i>Frontiers in Chemistry</i> , 2018, 6, 353.	3.6	42
21	Suppressed Carrier Scattering in CdS-Encapsulated PbS Nanocrystal Films. <i>ACS Nano</i> , 2013, 7, 6964-6977.	14.6	41
22	Nanoshell quantum dots: Quantum confinement beyond the exciton Bohr radius. <i>Journal of Chemical Physics</i> , 2020, 152, 110902.	3.0	39
23	Photocatalytic Activity of Core/Shell Semiconductor Nanocrystals Featuring Spatial Separation of Charges. <i>Journal of Physical Chemistry C</i> , 2012, 116, 22786-22793.	3.1	38
24	Just Add Ligands: Self-Sustained Size Focusing of Colloidal Semiconductor Nanocrystals. <i>Chemistry of Materials</i> , 2018, 30, 1391-1398.	6.7	38
25	Competition of Charge and Energy Transfer Processes in Donor-Acceptor Fluorescence Pairs: Calibrating the Spectroscopic Ruler. <i>ACS Nano</i> , 2018, 12, 5657-5665.	14.6	38
26	Inorganic Solids of CdSe Nanocrystals Exhibiting High Emission Quantum Yield. <i>Advanced Functional Materials</i> , 2012, 22, 3714-3722.	14.9	36
27	Progress and Prospects of Solution-Processed Two-Dimensional Semiconductor Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2020, 124, 21895-21908.	3.1	32
28	Colloidal semiconductor nanocrystals in energy transfer reactions. <i>Chemical Communications</i> , 2019, 55, 3033-3048.	4.1	31
29	Prospects and applications of plasmon-exciton interactions in the near-field regime. <i>Nanophotonics</i> , 2019, 8, 613-628.	6.0	28
30	Delayed Photoluminescence in Metal-Conjugated Fluorophores. <i>Journal of the American Chemical Society</i> , 2019, 141, 11286-11297.	13.7	26
31	The effect of dielectric friction on the rate of charge separation in type II ZnSe/CdS semiconductor nanorods. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	22
32	Electric field enhancement in a self-assembled 2D array of silver nanospheres. <i>Journal of Chemical Physics</i> , 2014, 141, 214308.	3.0	20
33	Enhanced Emission of Nanocrystal Solids Featuring Slowly Diffusive Excitons. <i>Journal of Physical Chemistry C</i> , 2017, 121, 1477-1487.	3.1	20
34	Plasmon-Induced Energy Transfer: When the Game Is Worth the Candle. <i>ACS Photonics</i> , 2017, 4, 2290-2297.	6.6	20
35	Double-Well Colloidal Nanocrystals Featuring Two-Color Photoluminescence. <i>Chemistry of Materials</i> , 2017, 29, 7852-7858.	6.7	19
36	Energy Transport in CsPbBr ₃ Perovskite Nanocrystal Solids. <i>ACS Photonics</i> , 2020, 7, 154-164.	6.6	19

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37	Exciton Generation in Semiconductor Nanocrystals via the Near-Field Plasmon Energy Transfer. Journal of Physical Chemistry C, 2015, 119, 15562-15571.	3.1	18
38	Quantum Shells Boost the Optical Gain of Lasing Media. ACS Nano, 2022, 16, 3017-3026.	14.6	18
39	Tracking the Energy Flow on Nanoscale <i>in</i> Sample-Transmitted Excitation Photoluminescence Spectroscopy. ACS Nano, 2017, 11, 4191-4197.	14.6	15
40	Lifting the Spectral Crosstalk in Multifluorophore Assemblies. Journal of Physical Chemistry C, 2017, 121, 26226-26232.	3.1	15
41	Sustained Biexciton Populations in Nanoshell Quantum Dots. ACS Photonics, 2019, 6, 1041-1050.	6.6	15
42	Colloidal Synthesis of Monodisperse Semiconductor Nanocrystals through Saturated Ionic Layer Adsorption. Chemistry of Materials, 2016, 28, 2823-2833.	6.7	14
43	Ambient Tip-Enhanced Photoluminescence with 5 nm Spatial Resolution. Journal of Physical Chemistry C, 2021, 125, 12251-12255.	3.1	14
44	Quantum Computing with Exciton Qubits in Colloidal Semiconductor Nanocrystals. Journal of Physical Chemistry C, 2021, 125, 22195-22203.	3.1	12
45	Solar hydrogen generation: Exceeding 100% efficiency. Nature Energy, 2017, 2, .	39.5	11
46	Measuring the Time-Dependent Monomer Concentration during the Hot-Injection Synthesis of Colloidal Nanocrystals. Chemistry of Materials, 2015, 27, 6102-6108.	6.7	9
47	Enabling Narrow Emission Line Widths in Colloidal Nanocrystals through Coalescence Growth. Chemistry of Materials, 2020, 32, 7524-7534.	6.7	9
48	Low-threshold laser medium utilizing semiconductor nanoshell quantum dots. Nanoscale, 2020, 12, 17426-17436.	5.6	9
49	Tuning the Dimensionality of Excitons in Colloidal Quantum Dot Molecules. Nano Letters, 2021, 21, 7339-7346.	9.1	9
50	Photoinduced Rotation of Colloidal Semiconductor Nanocrystals in an Electric Field. Nano Letters, 2021, 21, 4787-4794.	9.1	8
51	Influence of QD photosensitizers in the photocatalytic production of hydrogen with biomimetic [FeFe]-hydrogenase. Comparative performance of CdSe and CdTe. Chemosphere, 2021, 278, 130485.	8.2	8
52	Shape Control of Colloidal Semiconductor Nanocrystals through Thermodynamically Driven Aggregative Growth. Chemistry of Materials, 2022, 34, 2484-2494.	6.7	8
53	Colloidal Quantum Shells: An Emerging 2D Semiconductor for Energy Applications. ACS Energy Letters, 2022, 7, 1202-1213.	17.4	8
54	Ion-Mediated Ligand Exchange and Size Focusing of Semiconductor Nanocrystals in Ligand-Saturated Solutions. Journal of Physical Chemistry C, 2018, 122, 23623-23630.	3.1	6

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55	Self-Assembled PbS/CdS Quantum Dot Films with Switchable Symmetry and Emission. Chemistry of Materials, 2019, 31, 7855-7863.	6.7	5
56	One-dimensional growth of colloidal PbSe nanorods in chloroalkanes. Physica Status Solidi - Rapid Research Letters, 2016, 10, 833-837.	2.4	4