

Elena V Shevchenko

List of Publications by Year in descending order

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55
papers

14,627
citations

147801

31
h-index

161849

54
g-index

56
all docs

56
docs citations

56
times ranked

17932
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Polymer Removal on the Morphology and Phase of the Nanoparticles in All-Inorganic Heterostructures Synthesized via Two-Step Polymer Infiltration. <i>Molecules</i> , 2021, 26, 679.	3.8	3
2	Insights into the extraction of photogenerated holes from CdSe/CdS nanorods for oxidative organic catalysis. <i>Journal of Materials Chemistry A</i> , 2021, 9, 12690-12699.	10.3	8
3	Swelling-Assisted Sequential Infiltration Synthesis of Nanoporous ZnO Films with Highly Accessible Pores and Their Sensing Potential for Ethanol. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 35941-35948.	8.0	10
4	Single-Molecule Measurements Spatially Probe States Involved in Electron Transfer from CdSe/CdS Core/Shell Nanorods. <i>Journal of Physical Chemistry C</i> , 2021, 125, 21246-21253.	3.1	3
5	Spontaneous formation of anisotropic microrods from paraffin wax in an aqueous environment. <i>Soft Matter</i> , 2021, 18, 156-161.	2.7	1
6	Visualizing Heterogeneity of Monodisperse CdSe Nanocrystals by Their Assembly into Three-Dimensional Supercrystals. <i>ACS Nano</i> , 2020, 14, 14989-14998.	14.6	4
7	Design of functional composite and all-inorganic nanostructured materials via infiltration of polymer templates with inorganic precursors. <i>Journal of Materials Chemistry C</i> , 2020, 8, 10604-10627.	5.5	29
8	Synthesis, modular composition, and electrochemical properties of lamellar iron sulfides. <i>Journal of Materials Chemistry A</i> , 2020, 8, 15834-15844.	10.3	10
9	Block-Co-polymer-Assisted Synthesis of All Inorganic Highly Porous Heterostructures with Highly Accessible Thermally Stable Functional Centers. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 30154-30162.	8.0	22
10	Revealing the Effects of the Non-solvent on the Ligand Shell of Nanoparticles and Their Crystallization. <i>Journal of the American Chemical Society</i> , 2019, 141, 16651-16662.	13.7	35
11	Ligand dynamics control structure, elasticity, and high-pressure behavior of nanoparticle superlattices. <i>Nanoscale</i> , 2019, 11, 10655-10666.	5.6	20
12	Hypoxia-induced biosynthesis of gold nanoparticles in the living brain. <i>Nanoscale</i> , 2019, 11, 19285-19290.	5.6	1
13	Effect of the Micelle Opening in Self-assembled Amphiphilic Block Co-polymer Films on the Infiltration of Inorganic Precursors. <i>Langmuir</i> , 2019, 35, 796-803.	3.5	16
14	Unexpected compositional and structural modification of CoPt ₃ nanoparticles by extensive surface purification. <i>Nanoscale</i> , 2018, 10, 6382-6392.	5.6	7
15	Design of lithium cobalt oxide electrodes with high thermal conductivity and electrochemical performance using carbon nanotubes and diamond particles. <i>Carbon</i> , 2018, 129, 702-710.	10.3	27
16	Strain-Driven Stacking Faults in CdSe/CdS Core/Shell Nanorods. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1900-1906.	4.6	30
17	Accessibility of the pores in highly porous alumina films synthesized via sequential infiltration synthesis. <i>Nanotechnology</i> , 2018, 29, 495703.	2.6	19
18	The surface science of nanoparticles for catalysis: electronic and steric effects of organic ligands. <i>Journal of Nanoparticle Research</i> , 2018, 20, 1.	1.9	16

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19	Binary Transition-Metal Oxide Hollow Nanoparticles for Oxygen Evolution Reaction. ACS Applied Materials & Interfaces, 2018, 10, 24715-24724.	8.0	60
20	Sequential Infiltration Synthesis for the Design of Low Refractive Index Surface Coatings with Controllable Thickness. ACS Nano, 2017, 11, 2521-2530.	14.6	84
21	Rapid Synthesis of Nanoporous Conformal Coatings via Plasma-Enhanced Sequential Infiltration of a Polymer Template. ACS Omega, 2017, 2, 7812-7819.	3.5	23
22	Oxidation Induced Doping of Nanoparticles Revealed by <i>in Situ</i> X-ray Absorption Studies. Nano Letters, 2016, 16, 3738-3747.	9.1	25
23	Heterogeneous nucleation and shape transformation of multicomponent metallic nanostructures. Nature Materials, 2015, 14, 215-223.	27.5	187
24	In Situ Optical and Structural Studies on Photoluminescence Quenching in CdSe/CdS/Au Heterostructures. Journal of the American Chemical Society, 2014, 136, 2342-2350.	13.7	66
25	Intercalation of Sodium Ions into Hollow Iron Oxide Nanoparticles. Chemistry of Materials, 2013, 25, 245-252.	6.7	104
26	How "Hollow" Are Hollow Nanoparticles?. Journal of the American Chemical Society, 2013, 135, 2435-2438.	13.7	28
27	Controlling the spatial location of photoexcited electrons in semiconductor CdSe/CdS core/shell nanorods. Physical Review B, 2013, 87, .	3.2	31
28	Capping Ligands as Selectivity Switchers in Hydrogenation Reactions. Nano Letters, 2012, 12, 5382-5388.	9.1	146
29	Hollow Iron Oxide Nanoparticles for Application in Lithium Ion Batteries. Nano Letters, 2012, 12, 2429-2435.	9.1	369
30	Study of Nucleation and Growth Mechanism of the Metallic Nanodumbbells. Journal of the American Chemical Society, 2012, 134, 4384-4392.	13.7	70
31	High-Pressure Structural Stability and Elasticity of Supercrystals Self-Assembled from Nanocrystals. Nano Letters, 2011, 11, 579-588.	9.1	76
32	Using Shape to Control Photoluminescence from CdSe/CdS Core/Shell Nanorods. Journal of Physical Chemistry Letters, 2011, 2, 1469-1475.	4.6	91
33	Prospects of Colloidal Nanocrystals for Electronic and Optoelectronic Applications. Chemical Reviews, 2010, 110, 389-458.	47.7	3,708
34	Probing the Surface of Transition-Metal Nanocrystals by Chemiluminescence. Journal of the American Chemical Society, 2010, 132, 9102-9110.	13.7	29
35	Mechanical Properties of Face-Centered Cubic Supercrystals of Nanocrystals. Nano Letters, 2010, 10, 2363-2367.	9.1	86
36	The Role of Order, Nanocrystal Size, and Capping Ligands in the Collective Mechanical Response of Three-Dimensional Nanocrystal Solids. Journal of the American Chemical Society, 2010, 132, 8953-8960.	13.7	157

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37	“Magnet-in-the-Semiconductor” FePt/PbS and FePt/PbSe Nanostructures: Magnetic Properties, Charge Transport, and Magnetoresistance. <i>Journal of the American Chemical Society</i> , 2010, 132, 6382-6391.	13.7	80
38	Size-Dependent Multiple Twinning in Nanocrystal Superlattices. <i>Journal of the American Chemical Society</i> , 2010, 132, 289-296.	13.7	134
39	Quasicrystalline order in self-assembled binary nanoparticle superlattices. <i>Nature</i> , 2009, 461, 964-967.	27.8	551
40	Comparison of Structural Behavior of Nanocrystals in Randomly Packed Films and Long-Range Ordered Superlattices by Time-Resolved Small Angle X-ray Scattering. <i>Journal of the American Chemical Society</i> , 2009, 131, 16386-16388.	13.7	61
41	Gold/Iron Oxide Core/Hollow Shell Nanoparticles. <i>Advanced Materials</i> , 2008, 20, 4323-4329.	21.0	308
42	Self-Assembled Binary Superlattices of CdSe and Au Nanocrystals and Their Fluorescence Properties. <i>Journal of the American Chemical Society</i> , 2008, 130, 3274-3275.	13.7	197
43	Dipole-Dipole Interactions in Nanoparticle Superlattices. <i>Nano Letters</i> , 2007, 7, 1213-1219.	9.1	316
44	Seeded Growth of Highly Luminescent CdSe/CdS Nanoheterostructures with Rod and Tetrapod Morphologies. <i>Nano Letters</i> , 2007, 7, 2951-2959.	9.1	717
45	Vacancy Coalescence during Oxidation of Iron Nanoparticles. <i>Journal of the American Chemical Society</i> , 2007, 129, 10358-10360.	13.7	298
46	Synergism in binary nanocrystal superlattices leads to enhanced p-type conductivity in self-assembled PbTe/Ag ₂ Te thin films. <i>Nature Materials</i> , 2007, 6, 115-121.	27.5	498
47	Structural Characterization of Self-Assembled Multifunctional Binary Nanoparticle Superlattices. <i>Journal of the American Chemical Society</i> , 2006, 128, 3620-3637.	13.7	452
48	Structural diversity in binary nanoparticle superlattices. <i>Nature</i> , 2006, 439, 55-59.	27.8	1,956
49	Determination of Nanocrystal Sizes: A Comparison of TEM, SAXS, and XRD Studies of Highly Monodisperse CoPt ₃ Particles. <i>Langmuir</i> , 2005, 21, 1931-1936.	3.5	626
50	Quantum Dot Chemiluminescence. <i>Nano Letters</i> , 2004, 4, 693-698.	9.1	275
51	Insulator-to-Metal Transition in Nanocrystal Assemblies Driven by in Situ Mild Thermal Annealing. <i>Nano Letters</i> , 2004, 4, 1289-1293.	9.1	52
52	Study of Nucleation and Growth in the Organometallic Synthesis of Magnetic Alloy Nanocrystals: The Role of Nucleation Rate in Size Control of CoPt ₃ Nanocrystals. <i>Journal of the American Chemical Society</i> , 2003, 125, 9090-9101.	13.7	484
53	Colloidal Synthesis and Self-Assembly of CoPt ₃ Nanocrystals. <i>Journal of the American Chemical Society</i> , 2002, 124, 11480-11485.	13.7	533
54	Thiol-Capping of CdTe Nanocrystals: An Alternative to Organometallic Synthetic Routes. <i>Journal of Physical Chemistry B</i> , 2002, 106, 7177-7185.	2.6	1,485

#	ARTICLE	IF	CITATIONS
55	Syntheses and Characterizations: 3.2 Synthesis of Metal Nanoparticles. , 0, , 185-238.		2