

## List of Publications by Citations

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33  
papers

6,038  
citations

25  
h-index

37  
g-index

37  
ext. papers

6,317  
ext. citations

10.7  
avg, IF

5.2  
L-index

#	Paper	IF	Citations
33	Synthesis of monodisperse spherical nanocrystals. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 4630-60	16.4	1613
32	Generalized and facile synthesis of semiconducting metal sulfide nanocrystals. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 11100-5	16.4	572
31	Synthesis of quantum-sized cubic ZnS nanorods by the oriented attachment mechanism. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 5662-70	16.4	420
30	New aspects of carrier multiplication in semiconductor nanocrystals. <i>Accounts of Chemical Research</i> , <b>2008</b> , 41, 1810-9	24.3	361
29	Large-scale synthesis of TiO <sub>2</sub> nanorods via nonhydrolytic sol-gel ester elimination reaction and their application to photocatalytic inactivation of E. coli. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 15297-302	34.4	349
28	Multigram scale synthesis and characterization of monodisperse tetragonal zirconia nanocrystals. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 6553-7	16.4	337
27	Large-scale soft colloidal template synthesis of 1.4 nm thick CdSe nanosheets. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 6861-4	16.4	281
26	Low-temperature solution-phase synthesis of quantum well structured CdSe nanoribbons. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 5632-3	16.4	250
25	Large-scale nonhydrolytic sol-gel synthesis of uniform-sized ceria nanocrystals with spherical, wire, and tadpole shapes. <i>Angewandte Chemie - International Edition</i> , <b>2005</b> , 44, 7411-4	16.4	216
24	Apparent versus true carrier multiplication yields in semiconductor nanocrystals. <i>Nano Letters</i> , <b>2010</b> , 10, 2049-57	11.5	202
23	Highly effective surface passivation of PbSe quantum dots through reaction with molecular chlorine. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 20160-8	16.4	198
22	Giant Zeeman splitting in nucleation-controlled doped CdSe:Mn <sup>2+</sup> quantum nanoribbons. <i>Nature Materials</i> , <b>2010</b> , 9, 47-53	27	197
21	Synthese monodisperser sphärischer Nanokristalle. <i>Angewandte Chemie</i> , <b>2007</b> , 119, 4714-4745	3.6	134
20	Colloidal synthesis of ultrathin two-dimensional semiconductor nanocrystals. <i>Advanced Materials</i> , <b>2011</b> , 23, 3214-9	24	113
19	A reduction pathway in the synthesis of PbSe nanocrystal quantum dots. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 10620-8	16.4	101
18	A tailored TiO <sub>2</sub> electron selective layer for high-performance flexible perovskite solar cells via low temperature UV process. <i>Nano Energy</i> , <b>2016</b> , 28, 380-389	17.1	100
17	Dimension-controlled synthesis of CdS nanocrystals: from 0D quantum dots to 2D nanoplates. <i>Small</i> , <b>2012</b> , 8, 2394-402	11	87

16	Spectroscopic signatures of photocharging due to hot-carrier transfer in solutions of semiconductor nanocrystals under low-intensity ultraviolet excitation. <i>ACS Nano</i> , <b>2010</b> , 4, 6087-97	16.7	81
15	Advances in the Colloidal Synthesis of Two-Dimensional Semiconductor Nanoribbons. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 1190-1198	9.6	60
14	Copper-indium-selenide quantum dot-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 20517-25	3.6	54
13	Large-Scale Soft Colloidal Template Synthesis of 1.4 nm Thick CdSe Nanosheets. <i>Angewandte Chemie</i> , <b>2009</b> , 121, 6993-6996	3.6	53
12	Diameter-Controlled Synthesis of Discrete and Uniform-Sized Single-Walled Carbon Nanotubes Using Monodisperse Iron Oxide Nanoparticles Embedded in Zirconia Nanoparticle Arrays as Catalysts. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 8091-8095	3.4	46
11	Magnetically-separable and highly-stable enzyme system based on crosslinked enzyme aggregates shipped in magnetite-coated mesoporous silica. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 7864		43
10	Large-Scale Nonhydrolytic Sol-Gel Synthesis of Uniform-Sized Ceria Nanocrystals with Spherical, Wire, and Tadpole Shapes. <i>Angewandte Chemie</i> , <b>2005</b> , 117, 7577-7580	3.6	40
9	Fabrication of novel mesoporous dimethylsiloxane-incorporated silicas. <i>Chemical Communications</i> , <b>2000</b> , 1487-1488	5.8	25
8	Large-Scale Synthesis of Water Dispersible Ceria Nanocrystals by a Simple Sol-Gel Process and Their Use as a Chemical Mechanical Planarization Slurry. <i>European Journal of Inorganic Chemistry</i> , <b>2008</b> , 2008, 855-858	2.3	23
7	Slow colloidal growth of PbSe nanocrystals for facile morphology and size control. <i>RSC Advances</i> , <b>2014</b> , 4, 9842	3.7	20
6	A direct one-step synthetic route to PdPt nanostructures with controllable shape, size, and composition for electrocatalytic applications. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 19239-19246	13	19
5	Ultrafast electronic dynamics of monodisperse PbS and CdS nanoparticles/nanorods: Effects of size on nonlinear relaxation. <i>Optical Materials</i> , <b>2007</b> , 29, 858-866	3.3	16
4	Interplay between the local structural disorder and the length of structural coherence in stabilizing the cubic phase in nanocrystalline ZrO <sub>2</sub> . <i>Solid State Communications</i> , <b>2006</b> , 138, 279-284	1.6	13
3	Simple synthesis of platinum dendritic aggregates supported on conductive tungsten oxide nanowires as high-performance methanol oxidation electrocatalysts. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 2797-801	4.8	8
2	Synthesis and catalytic applications of uniform-sized nanocrystals. <i>Studies in Surface Science and Catalysis</i> , <b>2006</b> , 159, 47-54	1.8	3
1	Colloidal synthesis of monodisperse ultrathin LiFePO <sub>4</sub> nanosheets for Li-ion battery cathodes. <i>Korean Journal of Chemical Engineering</i> , <b>2021</b> , 38, 1052-1058	2.8	0