

# Yuanyuan Wang

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

1,725  
citations

516710

16  
h-index

552781

26  
g-index

26  
all docs

26  
docs citations

26  
times ranked

2262  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemical Impedance Immunosensor Based on Three-Dimensionally Ordered Macroporous Gold Film. <i>Analytical Chemistry</i> , 2008, 80, 2133-2140.	6.5	236
2	Direct optical lithography of functional inorganic nanomaterials. <i>Science</i> , 2017, 357, 385-388.	12.6	224
3	Lamellar Assembly of Cadmium Selenide Nanoclusters into Quantum Belts. <i>Journal of the American Chemical Society</i> , 2011, 133, 17005-17013.	13.7	196
4	Quantum dot solids showing state-resolved band-like transport. <i>Nature Materials</i> , 2020, 19, 323-329.	27.5	136
5	Isolation of the Magic-Size CdSe Nanoclusters [(CdSe) <sub>13</sub> (n-octylamine) <sub>13</sub> ] and [(CdSe) <sub>13</sub> (oleylamine) <sub>13</sub> ]. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 6154-6157.	13.8	129
6	The Magic-Size Nanocluster (CdSe) <sub>34</sub> as a Low-Temperature Nucleant for Cadmium Selenide Nanocrystals; Room-Temperature Growth of Crystalline Quantum Platelets. <i>Chemistry of Materials</i> , 2014, 26, 2233-2243.	6.7	128
7	Two-Dimensional Semiconductor Nanocrystals: Properties, Templated Formation, and Magic-Size Nanocluster Intermediates. <i>Accounts of Chemical Research</i> , 2015, 48, 13-21.	15.6	109
8	Magic-Size II <sup>IV</sup> Nanoclusters as Synthons for Flat Colloidal Nanocrystals. <i>Inorganic Chemistry</i> , 2015, 54, 1165-1177.	4.0	106
9	Direct Wavelength-Selective Optical and Electron-Beam Lithography of Functional Inorganic Nanomaterials. <i>ACS Nano</i> , 2019, 13, 13917-13931.	14.6	77
10	High Carrier Mobility in HgTe Quantum Dot Solids Improves Mid-IR Photodetectors. <i>ACS Photonics</i> , 2019, 6, 2358-2365.	6.6	77
11	Direct Optical Patterning of Quantum Dot Light-Emitting Diodes via In Situ Ligand Exchange. <i>Advanced Materials</i> , 2020, 32, e2003805.	21.0	62
12	Fabrication of a novel hydrogen peroxide biosensor based on the AuNPs@C@SiO <sub>2</sub> composite. <i>Electrochemistry Communications</i> , 2009, 11, 323-326.	4.7	51
13	Preparation of Primary Amine Derivatives of the Magic-Size Nanocluster (CdSe) <sub>13</sub> . <i>Inorganic Chemistry</i> , 2013, 52, 2933-2938.	4.0	44
14	Isolation of Amine Derivatives of (ZnSe) <sub>34</sub> and (CdTe) <sub>34</sub> . Spectroscopic Comparisons of the (II <sup>IV</sup> ) <sub>13</sub> and (II <sup>IV</sup> ) <sub>34</sub> Magic-Size Nanoclusters. <i>Inorganic Chemistry</i> , 2019, 58, 1815-1825.	4.0	28
15	Direct Optical Lithography of Colloidal Metal Oxide Nanomaterials for Diffractive Optical Elements with 2 $\pi$ Phase Control. <i>Journal of the American Chemical Society</i> , 2021, 143, 2372-2383.	13.7	21
16	Progress in electrochemiluminescence of nanoclusters: how to improve the quantum yield of nanoclusters. <i>Analyst</i> , 2021, 146, 803-815.	3.5	17
17	Soluble Lead and Bismuth Chalcogenidometallates: Versatile Solders for Thermoelectric Materials. <i>Chemistry of Materials</i> , 2017, 29, 6396-6404.	6.7	14
18	Excitation Energy Dependence of Photoluminescence Quantum Yields in Semiconductor Nanomaterials with Varying Dimensionalities. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 3249-3256.	4.6	14

#	ARTICLE	IF	CITATIONS
19	Trifunctional modification of individual bacterial cells for magnet-assisted bioanodes with high performance in microbial fuel cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 24515-24523.	10.3	13
20	Fabrication of a Novel Hydrogen Peroxide Biosensor Based on C@Au Composite. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 138-142.	0.9	11
21	Direct Heat-Induced Patterning of Inorganic Nanomaterials. <i>Journal of the American Chemical Society</i> , 2022, 144, 10495-10506.	13.7	8
22	Roll-To-Roll Friendly Solution-Processing of Ultrathin, Sintered CdTe Nanocrystal Photovoltaics. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 44165-44173.	8.0	5
23	Direct Formation of Colloidal All-Inorganic Metal Nanocrystals from Magic-Size Clusters. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, , .	8.0	5
24	Optical Patterning: Direct Optical Patterning of Quantum Dot Light-Emitting Diodes via In Situ Ligand Exchange ( <i>Adv. Mater.</i> 46/2020). <i>Advanced Materials</i> , 2020, 32, 2070346.	21.0	2
25	Triethyl-Borates as Surfactants to Stabilize Semiconductor Nanoplatelets in Polar Solvents and to Tune Their Optical Properties. <i>Frontiers in Chemistry</i> , 2022, 10, 860781.	3.6	2