

Hongzhe Wang

List of Publications by Year in descending order

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27
papers

1,374
citations

516710

16
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526287

27
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27
all docs

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docs citations

27
times ranked

1781
citing authors

#	ARTICLE	IF	CITATIONS
1	Bright, efficient, and color-stable violet ZnSe-based quantum dot light-emitting diodes. <i>Nanoscale</i> , 2015, 7, 2951-2959.	5.6	163
2	Highly Efficient Deep Blue Light-Emitting Diodes by Using High Quality Zn _x Cd _{1-x} S/ZnS Core/Shell Quantum Dots. <i>Advanced Functional Materials</i> , 2014, 24, 2367-2373.	14.9	151
3	High quality synthesis of monodisperse zinc-blende CdSe and CdSe/ZnS nanocrystals with a phosphine-free method. <i>CrystEngComm</i> , 2009, 11, 1733.	2.6	114
4	Nonblinking Quantum-Dot-Based Blue Light-Emitting Diodes with High Efficiency and a Balanced Charge-Injection Process. <i>ACS Photonics</i> , 2018, 5, 939-946.	6.6	113
5	Super color purity green quantum dot light-emitting diodes fabricated by using CdSe/CdS nanoplatelets. <i>Nanoscale</i> , 2016, 8, 12182-12188.	5.6	111
6	High-efficiency, deep blue ZnCdS/Cd _x Zn _{1-x} S/ZnS quantum-dot-light-emitting devices with an EQE exceeding 18%. <i>Nanoscale</i> , 2018, 10, 5650-5657.	5.6	103
7	High-Brightness Blue InP Quantum Dot-Based Electroluminescent Devices: The Role of Shell Thickness. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 960-967.	4.6	87
8	Efficient and Bright Colloidal Quantum Dot Light-Emitting Diodes via Controlling the Shell Thickness of Quantum Dots. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 12011-12016.	8.0	78
9	Synthesis and Evaluation of Ideal Core/Shell Quantum Dots with Precisely Controlled Shell Growth: Nonblinking, Single Photoluminescence Decay Channel, and Suppressed FRET. <i>Chemistry of Materials</i> , 2018, 30, 3668-3676.	6.7	72
10	Efficient and long-life green light-emitting diodes comprising tridentate thiol capped quantum dots. <i>Laser and Photonics Reviews</i> , 2017, 11, 1600227.	8.7	67
11	Investigation on type-II Cu ₂ S/CdS core/shell nanocrystals: synthesis and characterization. <i>Journal of Materials Chemistry</i> , 2010, 20, 923-928.	6.7	54
12	Phosphine-free synthesis of Zn _{1-x} Cd _x Se/ZnSe/ZnS _{1-x} /ZnS core/multishell structures with bright and stable blue-green photoluminescence. <i>Journal of Materials Chemistry</i> , 2011, 21, 6046.	6.7	52
13	Shape controlled synthesis of tadpole-like and heliotrope seed-like AgInS ₂ nanocrystals. <i>CrystEngComm</i> , 2010, 12, 4410.	2.6	42
14	High-efficiency deep-red quantum-dot light-emitting diodes with type-II CdSe/CdTe core/shell quantum dots as emissive layers. <i>Journal of Materials Chemistry C</i> , 2016, 4, 7223-7229.	5.5	33
15	Controlled synthesis of monodisperse manganese oxide nanocrystals. <i>CrystEngComm</i> , 2009, 11, 1128.	2.6	19
16	Large scale synthesis of stable tricolor Zn _{1-x} Cd _x Se core/multishell nanocrystals via a facile phosphine-free colloidal method. <i>Dalton Transactions</i> , 2011, 40, 9180.	3.3	18
17	Se/S Ratio-Dependent Properties and Application of Gradient-Alloyed CdSe _{1-x} S _x Quantum Dots: Shell-free Structure, Non-blinking Photoluminescence with Single-Exponential Decay, and Efficient QLEDs. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 6238-6247.	8.0	16
18	Influence of Ambient Gas on the Performance of Quantum-Dot Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 11557-11563.	8.0	13

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19	Enhanced Performance of Quantum Dot-Based Light-Emitting Diodes with Gold Nanoparticle-Doped Hole Injection Layer. <i>Nanoscale Research Letters</i> , 2016, 11, 376.	5.7	13
20	Investigation on the phosphine-free synthesis of CdSe nanocrystals by cadmium precursor injection. <i>New Journal of Chemistry</i> , 2009, 33, 2114.	2.8	12
21	Improved Efficiency of All-Inorganic Quantum-Dot Light-Emitting Diodes via Interface Engineering. <i>Frontiers in Chemistry</i> , 2020, 8, 265.	3.6	12
22	Highly Efficient Near-Infrared Light-Emitting Diodes Based on Chloride Treated CdTe/CdSe Type-II Quantum Dots. <i>Frontiers in Chemistry</i> , 2020, 8, 266.	3.6	10
23	Inorganic Sn ²⁺ complex ligands capped CuInS ₂ nanocrystals with high electron mobility. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	6
24	Facile synthesis and observation of discontinuous red-shift photoluminescence of CdTe/CdS core/shell nanocrystals. <i>CrystEngComm</i> , 2012, 14, 272-277.	2.6	5
25	Size-dependent surface photovoltage in CdSe nanocrystal-based thin films. <i>RSC Advances</i> , 2015, 5, 39714-39718.	3.6	4
26	Quantum-Dot-Based Light-Emitting Diodes With Improved Brightness and Stability by Using Sulfuric Acid-Treated PEDOT:PSS as Efficient Hole Injection Layer. <i>IEEE Nanotechnology Magazine</i> , 2015, 14, 57-61.	2.0	4
27	Morphology Controlled Synthesis of Composition Related Plasmonic CuCdS Alloy Nanocrystals. <i>Frontiers in Chemistry</i> , 2020, 8, 628536.	3.6	2