

Zuliang Du

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8886873/publications.pdf>

Version: 2024-02-01

49
papers

2,487
citations

304368

22
h-index

197535

49
g-index

49
all docs

49
docs citations

49
times ranked

2295
citing authors

#	ARTICLE	IF	CITATIONS
1	The self-powered artificial synapse mechanotactile sensing system by integrating triboelectric plasma and gas-ionic-gated graphene transistor. <i>Nano Energy</i> , 2022, 91, 106660.	8.2	41
2	Triboelectric Plasma-Catalytic CO Oxidation of MnO ₂ Nanostructures Driven by Mechanical Energy at Room Temperature. <i>ACS Applied Nano Materials</i> , 2022, 5, 1426-1434.	2.4	7
3	Synchronous Outcoupling of Tri-Color Light for Ultra-Bright White Quantum Dot Light-Emitting Diodes by Using External Wrinkle Pattern. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	6
4	Alleviating Electron Over-Injection for Efficient Cadmium-Free Quantum Dot Light-Emitting Diodes toward Deep-Blue Emission. <i>ACS Photonics</i> , 2022, 9, 1400-1408.	3.2	18
5	A water collection system with ultra-high harvest rate and ultra-low energy consumption by integrating triboelectric plasma. <i>Nano Energy</i> , 2022, 96, 107081.	8.2	15
6	Size Engineering of Trap Effects in Oxidized and Hydroxylated ZnSe Quantum Dots. <i>Nano Letters</i> , 2022, 22, 3604-3611.	4.5	13
7	High Performance InP-based Quantum Dot Light-Emitting Diodes via the Suppression of Field-Enhanced Electron Delocalization. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	23
8	High performance blue quantum light-emitting diodes by attaching diffraction wrinkle patterns. <i>Nanoscale</i> , 2021, 13, 8498-8505.	2.8	7
9	Facile Sb ₂ Se ₃ and Se co-selenization process improves the performance of Cu ₂ ZnSnSe ₄ solar cells. <i>Journal of Power Sources</i> , 2021, 491, 229581.	4.0	6
10	Quantum dot light-emitting diodes with high efficiency at high brightness via shell engineering. <i>Optics Express</i> , 2021, 29, 12169.	1.7	13
11	In Situ Electrochemical Treatment Evoked Superior Grain Growth for Green Electrodeposition-Processed Flexible CZTSe Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 31852-31860.	4.0	14
12	Bulk-like ZnSe Quantum Dots Enabling Efficient Ultranarrow Blue Light-Emitting Diodes. <i>Nano Letters</i> , 2021, 21, 7252-7260.	4.5	69
13	Triboelectric plasma decomposition of CO ₂ at room temperature driven by mechanical energy. <i>Nano Energy</i> , 2021, 88, 106287.	8.2	19
14	Back Shallow Ge Gradient Enhanced Carrier Separation for CZTSe Solar Cells through a Coselenization Process. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 56302-56308.	4.0	10
15	The Regulation of O ₂ Spin State and Direct Oxidation of CO at Room Temperature Using Triboelectric Plasma by Harvesting Mechanical Energy. <i>Nanomaterials</i> , 2021, 11, 3408.	1.9	7
16	AgNWs/AZO composite electrode for transparent inverted ZnCdSeS/ZnS quantum dot light-emitting diodes. <i>Nanotechnology</i> , 2020, 31, 055201.	1.3	7
17	Quantum-Dot Light-Emitting Diodes for Outdoor Displays with High Stability at High Brightness. <i>Advanced Optical Materials</i> , 2020, 8, 1901145.	3.6	94
18	Tuning oxygen vacancies and improving UV sensing of ZnO nanowire by micro-plasma powered by a triboelectric nanogenerator. <i>Nano Energy</i> , 2020, 67, 104210.	8.2	75

#	ARTICLE	IF	CITATIONS
19	High-efficiency and stable quantum dot light-emitting diodes with staircase V ₂ O ₅ /PEDOT:PSS hole injection layer interface barrier. <i>Organic Electronics</i> , 2020, 78, 105589.	1.4	10
20	Measuring the actual voltage of a triboelectric nanogenerator using the non-grounded method. <i>Nano Energy</i> , 2020, 77, 105108.	8.2	80
21	Simple Synthesis of CuInS ₂ /ZnS Core/Shell Quantum Dots for White Light-Emitting Diodes. <i>Frontiers in Chemistry</i> , 2020, 8, 669.	1.8	22
22	Research progress and challenges of blue light-emitting diodes based on II–VI semiconductor quantum dots. <i>Journal of Materials Chemistry C</i> , 2020, 8, 10160-10173.	2.7	37
23	Quantum dot light-emitting diodes with an Al-doped ZnO anode. <i>Nanotechnology</i> , 2020, 31, 255203.	1.3	7
24	Meter-scale fabrication of water-driven triboelectric nanogenerator based on in-situ grown layered double hydroxides through a bottom-up approach. <i>Nano Energy</i> , 2020, 71, 104646.	8.2	32
25	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.	2.1	87
26	Cd(OH) ₂ @ZnO nanowires thin-film transistor and UV photodetector with a floating ionic gate tuned by a triboelectric nanogenerator. <i>Nano Energy</i> , 2020, 73, 104808.	8.2	31
27	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.	1.8	10
28	Improved Efficiency of All-Inorganic Quantum-Dot Light-Emitting Diodes via Interface Engineering. <i>Frontiers in Chemistry</i> , 2020, 8, 265.	1.8	12
29	Asymmetric Wettability Interfaces Induced a Large-Area Quantum Dot Microstructure toward High-Resolution Quantum Dot Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 28520-28526.	4.0	12
30	Cu-Promoted Reversed Elemental Distribution for Electrochemically Intermetallic Diffusion Improved Cu ₂ ZnSnSe ₄ Photovoltaic Device Beyond 9% Efficiency. <i>Solar Rrl</i> , 2019, 3, 1900165.	3.1	9
31	Hybrid energy harvester with bi-functional nano-wrinkled anti-reflective PDMS film for enhancing energies conversion from sunlight and raindrops. <i>Nano Energy</i> , 2019, 66, 104188.	8.2	64
32	High-Efficiency Green InP Quantum Dot-Based Electroluminescent Device Comprising Thick-Shell Quantum Dots. <i>Advanced Optical Materials</i> , 2019, 7, 1801602.	3.6	137
33	The novel transistor and photodetector of monolayer MoS ₂ based on surface-ionic-gate modulation powered by a triboelectric nanogenerator. <i>Nano Energy</i> , 2019, 62, 38-45.	8.2	46
34	The high-speed ultraviolet photodetector of ZnO nanowire Schottky barrier based on the triboelectric-nanogenerator-powered surface-ionic-gate. <i>Nano Energy</i> , 2019, 60, 680-688.	8.2	62
35	Visible quantum dot light-emitting diodes with simultaneous high brightness and efficiency. <i>Nature Photonics</i> , 2019, 13, 192-197.	15.6	596
36	Enhanced performances of quantum dot light-emitting diodes with PFN-adding emitting layer. <i>Organic Electronics</i> , 2019, 66, 110-115.	1.4	9

#	ARTICLE	IF	CITATIONS
37	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.	2.8	103
38	Managing and maximizing the output power of a triboelectric nanogenerator by controlled tip-electrode air-discharging and application for UV sensing. <i>Nano Energy</i> , 2018, 44, 208-216.	8.2	145
39	The self-powered CO ₂ gas sensor based on gas discharge induced by triboelectric nanogenerator. <i>Nano Energy</i> , 2018, 53, 898-905.	8.2	146
40	Enhanced light out-coupling efficiency of quantum dot light emitting diodes by nanoimprint lithography. <i>Nanoscale</i> , 2018, 10, 11651-11656.	2.8	40
41	Simultaneous Improvement of Efficiency and Lifetime of Quantum Dot Light-Emitting Diodes with a Bilayer Hole Injection Layer Consisting of PEDOT:PSS and Solution-Processed WO ₃ . <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 24232-24241.	4.0	17
42	Solution-processed quantum dot light-emitting diodes based on NiO nanocrystals hole injection layer. <i>Organic Electronics</i> , 2017, 44, 189-197.	1.4	48
43	Fabrication of CZTSSe absorbers by optimized selenization of one-step co-electrodeposited CZTS precursors. <i>Journal of Materials Science</i> , 2017, 52, 11014-11024.	1.7	7
44	Patterned honeycomb-like ZnO cavities for Cu(In,Ga)Se ₂ thin film solar cells with omnidirectionally enhanced light harvesting. <i>Solar Energy Materials and Solar Cells</i> , 2017, 170, 211-218.	3.0	20
45	Bandgap tunable Zn _{1-x} Mg _x O thin films as electron transport layers for high performance quantum dot light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2017, 5, 4724-4730.	2.7	88
46	Quantum Dot Modified One-Dimensional C ₆₀ Nanorod <i>in Situ</i> Preparation and Photoinduced Charge Transfer. <i>Journal of Physical Chemistry C</i> , 2017, 121, 23676-23682.	1.5	7
47	Super color purity green quantum dot light-emitting diodes fabricated by using CdSe/CdS nanoplatelets. <i>Nanoscale</i> , 2016, 8, 12182-12188.	2.8	111
48	Low-cost Cu ₂ ZnSnS ₄ thin films prepared from single step electrodeposited Cu/Zn/Sn alloy precursor films. <i>Materials Chemistry and Physics</i> , 2015, 163, 24-29.	2.0	12
49	The unsaturated photocurrent controlled by two-dimensional barrier geometry of a single ZnO nanowire Schottky photodiode. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	36