

Xihua Wang

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

4,616
citations

346980

22
h-index

139680

61
g-index

68
all docs

68
docs citations

68
times ranked

6663
citing authors

#	ARTICLE	IF	CITATIONS
1	Doping Colloidal Quantum Dot Materials and Devices for Photovoltaics. <i>Energies</i> , 2022, 15, 2458.	1.6	6
2	Surface Microlenses for Much More Efficient Photodegradation in Water Treatment. <i>ACS ES&T Water</i> , 2022, 2, 644-657.	2.3	8
3	Improving the Light Quality of White Light-Emitting Diodes Using Cellulose Nanocrystal-Filled Phosphors. <i>Advanced Photonics Research</i> , 2021, 2, 2100006.	1.7	7
4	Laser induction of graphene onto lignin-upgraded flexible polymer matrix. <i>Materials Letters</i> , 2021, 286, 129268.	1.3	12
5	Bioinformatics Analysis Reveals Centromere Protein K Can Serve as Potential Prognostic Biomarker and Therapeutic Target for Non-small Cell Lung Cancer. <i>Current Bioinformatics</i> , 2021, 16, 106-119.	0.7	7
6	Luminescent films employing quantum dot-cellulose nanocrystal hybrid nanomaterials. <i>Materials Letters</i> , 2021, 294, 129737.	1.3	7
7	Cellulose-upgraded polymer films for radiative sky cooling. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021, 272, 107824.	1.1	9
8	On-chip Ge, InGaAs, and colloidal quantum dot photodetectors: comparisons for application in silicon photonics. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021, 38, 194.	0.9	3
9	Silicon Surface Passivation for Silicon-Colloidal Quantum Dot Heterojunction Photodetectors. <i>ACS Nano</i> , 2021, 15, 18429-18436.	7.3	20
10	Diagnostic value of endobronchial ultrasound elastography combined with rapid onsite cytological evaluation in endobronchial ultrasound-guided transbronchial needle aspiration. <i>BMC Pulmonary Medicine</i> , 2021, 21, 423.	0.8	0
11	Unusual Surface Ligand Doping-Induced p-Type Quantum Dot Solids and Their Application in Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 53942-53949.	4.0	9
12	LINC00511 promotes lung squamous cell carcinoma proliferation and migration via inhibiting miR-150-5p and activating TADA1. <i>Translational Lung Cancer Research</i> , 2020, 9, 1138-1148.	1.3	18
13	Ultrafast Colloidal Quantum Dot Infrared Photodiode. <i>ACS Photonics</i> , 2020, 7, 1297-1303.	3.2	40
14	<p>Whole-exome sequencing insights into pulmonary artery sarcoma mimicking pulmonary embolism: a case report and review</p>. <i>OncoTargets and Therapy</i> , 2019, Volume 12, 6227-6235.	1.0	6
15	Control of Femtoliter Liquid on a Microlens: A Way to Flexible Dual-Microlens Arrays. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 27386-27393.	4.0	18
16	Single-Walled Carbon Nanotube Based Triboelectric Flexible Touch Sensors. <i>Journal of Electronic Materials</i> , 2019, 48, 7411-7416.	1.0	8
17	Surface-Modified Substrates for Quantum Dot Inks in Printed Electronics. <i>ACS Omega</i> , 2019, 4, 4161-4168.	1.6	15
18	Polymer Microelectromechanical System-Integrated Flexible Sensors for Wearable Technologies. <i>IEEE Sensors Journal</i> , 2019, 19, 443-450.	2.4	11

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19	Reducing shadowing losses in silicon solar cells using cellulose nanocrystal: polymer hybrid diffusers. <i>Applied Optics</i> , 2019, 58, 2505.	0.9	15
20	Nanocrystal-filled polymer for improving angular color uniformity of phosphor-converted white LEDs. <i>Applied Optics</i> , 2019, 58, 7649.	0.9	4
21	On-chip colloidal quantum dot devices with a CMOS compatible architecture for near-infrared light sensing. <i>Optics Letters</i> , 2019, 44, 463.	1.7	14
22	Filter-Free Narrowband Photodetectors Employing Colloidal Quantum Dots. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2018, 24, 1-6.	1.9	9
23	Triboelectric flexible sensors employing single-walled carbon nanotube field-effect transistors. , 2018, , .		0
24	Extraordinary Focusing Effect of Surface Nanolenses in Total Internal Reflection Mode. <i>ACS Central Science</i> , 2018, 4, 1511-1519.	5.3	13
25	Inverse Opal Photonic Crystals as an Optofluidic Platform for Fast Analysis of Hydrocarbon Mixtures. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 20120-20127.	4.0	9
26	Optoelectronic engineering of colloidal quantum-dot solar cells beyond the efficiency black hole: a modeling approach. <i>Proceedings of SPIE</i> , 2017, , .	0.8	1
27	Digital microelectromechanical sensor with an engineered polydimethylsiloxane (PDMS) bridge structure. <i>Nanoscale</i> , 2017, 9, 1257-1262.	2.8	12
28	Improved response time of flexible microelectromechanical sensors employing eco-friendly nanomaterials. <i>Nanoscale</i> , 2017, 9, 16915-16921.	2.8	13
29	Cellulose Nanocrystal:Polymer Hybrid Optical Diffusers for Indexâ€Matchingâ€Free Light Management in Optoelectronic Devices. <i>Advanced Optical Materials</i> , 2017, 5, 1700430.	3.6	43
30	Cellulose nanocrystals as host matrix and waveguide materials for recyclable luminescent solar concentrators. <i>RSC Advances</i> , 2017, 7, 32436-32441.	1.7	18
31	Field-effect enhanced triboelectric colloidal quantum dot flexible sensor. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	12
32	Numerical Study of Complementary Nanostructures for Light Trapping in Colloidal Quantum Dot Solar Cells. <i>Nanomaterials</i> , 2016, 6, 55.	1.9	10
33	Stretchable Hexagonal Diffraction Gratings as Optical Diffusers for In Situ Tunable Broadband Photon Management. <i>Advanced Optical Materials</i> , 2016, 4, 1106-1114.	3.6	32
34	Gradient-Doped Colloidal Quantum Dot Solids Enable Thermophotovoltaic Harvesting of Waste Heat. <i>ACS Energy Letters</i> , 2016, 1, 740-746.	8.8	8
35	Strain sensors on water-soluble cellulose nanofibril paper by polydimethylsiloxane (PDMS) stencil lithography. <i>RSC Advances</i> , 2016, 6, 85427-85433.	1.7	26
36	Observation of localized surface plasmons and hybridized surface plasmon polaritons on self-assembled two-dimensional nanocavities. <i>Optics Letters</i> , 2016, 41, 1506.	1.7	1

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37	Recent progress in colloidal quantum dot photovoltaics. <i>Frontiers of Optoelectronics</i> , 2015, 8, 241-251.	1.9	8
38	Band edge modulation and interband optical transition in AlN:Mg _m -O _N nanotubes. <i>Materials Research Express</i> , 2014, 1, 025030.	0.8	2
39	Enhancement of TE polarized light extraction efficiency in nanoscale (AlN) _m /(GaN) _n superlattice substitution for Al-rich AlGaN disorder alloy: ultra-thin GaN layer modulation. <i>New Journal of Physics</i> , 2014, 16, 113065.	1.2	14
40	Resonance-induced absorption enhancement in colloidal quantum dot solar cells using nanostructured electrodes. <i>Optics Express</i> , 2014, 22, A1576.	1.7	21
41	Quantum Junction Solar Cells. <i>Nano Letters</i> , 2012, 12, 4889-4894.	4.5	196
42	Enhanced Mobility-Lifetime Products in PbS Colloidal Quantum Dot Photovoltaics. <i>ACS Nano</i> , 2012, 6, 89-99.	7.3	244
43	Graded Recombination Layers for Multijunction Photovoltaics. <i>Nano Letters</i> , 2012, 12, 3043-3049.	4.5	12
44	A Donor-Supply Electrode (DSE) for Colloidal Quantum Dot Photovoltaics. <i>Nano Letters</i> , 2011, 11, 5173-5178.	4.5	24
45	Enhanced Open-Circuit Voltage in Visible Quantum Dot Photovoltaics by Engineering of Carrier-Collecting Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 3792-3795.	4.0	34
46	Colloidal-quantum-dot photovoltaics using atomic-ligand passivation. <i>Nature Materials</i> , 2011, 10, 765-771.	13.3	1,375
47	Tandem colloidal quantum dot solar cells employing a graded recombination layer. <i>Nature Photonics</i> , 2011, 5, 480-484.	15.6	367
48	Electron Acceptor Materials Engineering in Colloidal Quantum Dot Solar Cells. <i>Advanced Materials</i> , 2011, 23, 3832-3837.	11.1	102
49	Quantum-Tuned Two-Junction Solar Cells. , 2011, , .		0
50	Schottky Quantum Dot Solar Cells Stable in Air under Solar Illumination. <i>Advanced Materials</i> , 2010, 22, 1398-1402.	11.1	162
51	Nanoelectronic detection of breast cancer biomarker. <i>Applied Physics Letters</i> , 2010, 97, 233702.	1.5	11
52	Depleted-heterojunction colloidal quantum dot photovoltaics employing low-cost electrical contacts. <i>Applied Physics Letters</i> , 2010, 97, 023109.	1.5	39
53	Ambient-Processed Colloidal Quantum Dot Solar Cells via Individual Pre-Encapsulation of Nanoparticles. <i>Journal of the American Chemical Society</i> , 2010, 132, 5952-5953.	6.6	134
54	Quantum Dot Photovoltaics in the Extreme Quantum Confinement Regime: The Surface-Chemical Origins of Exceptional Air- and Light-Stability. <i>ACS Nano</i> , 2010, 4, 869-878.	7.3	345

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55	Dead zones in colloidal quantum dot photovoltaics: evidence and implications. Optics Express, 2010, 18, A451.	1.7	22
56	Depleted-Heterojunction Colloidal Quantum Dot Solar Cells. ACS Nano, 2010, 4, 3374-3380.	7.3	781
57	Depleted-Heterojunction Colloidal Quantum Dot Solar Cells Employing Low-Cost Metal Contacts. , 2010, , .		1
58	Localized plasmonic control of extraordinary light transmission in rectangular coaxial aperture arrays at mid-IR. , 2009, , .		0
59	Surface-modified silicon nano-channel for urea sensing. Sensors and Actuators B: Chemical, 2008, 133, 593-598.	4.0	32
60	Extraordinary midinfrared transmission of rectangular coaxial nanoaperture arrays. Applied Physics Letters, 2008, 93, .	1.5	41
61	Silicon-based nanochannel glucose sensor. Applied Physics Letters, 2008, 92, 013903.	1.5	48
62	Mid-infrared subwavelength polarization optics with plasmonic nanostructures. , 2008, , .		1
63	Nanoscale field effect transistor for biomolecular signal amplification. Applied Physics Letters, 2007, 91, 243511.	1.5	16
64	Subpicosecond Protein Backbone Changes Detected during the Green-Absorbing Proteorhodopsin Primary Photoreaction. Journal of Physical Chemistry B, 2007, 111, 11824-11831.	1.2	28
65	Silicon-based nanoelectronic field-effect pH sensor with local gate control. Applied Physics Letters, 2006, 89, 223512.	1.5	103