

Jian Xu

List of Publications by Year in descending order

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56
papers

2,385
citations

394421

19
h-index

197818

49
g-index

56
all docs

56
docs citations

56
times ranked

3713
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling of Nanophosphor-Coupled Porous Layers for Color Conversion in III-Nitride Micro-LED Arrays. Journal of Electronic Materials, 2022, 51, 3023-3032.	2.2	3
2	18.1: Invited Paper: Color Conversion in III-Nitride Micro-LEDs with Embedded Nanostructures. Digest of Technical Papers SID International Symposium, 2021, 52, 238-238.	0.3	0
3	Fabrication of high-breakdown GaN Schottky barrier diodes over deeply-etched crystal surfaces. Journal of Applied Physics, 2020, 128, 115703.	2.5	1
4	Electrical and optical modeling of gap-free III-nitride micro-LED arrays. AIP Advances, 2020, 10, .	1.3	4
5	Alternating Current III-Nitride Light-Emitting Diodes With On-Chip Schottky Barrier Diode Rectifiers. IEEE Transactions on Electron Devices, 2019, 66, 3881-3886.	3.0	7
6	Pa€8.9: Full€color GaN€based LED Micro€display Integrated with Dynamic Color Filter. Digest of Technical Papers SID International Symposium, 2019, 50, 852-855.	0.3	1
7	A Compact and Broadband Photonic Crystal Fiber Polarization Filter Based on a Plasmonic Resonant Thin Gold Film. IEEE Photonics Journal, 2019, 11, 1-12.	2.0	28
8	The configuration of DMD and the maximum intensity projection method for improving contrast in DMD€based confocal microscope. Microscopy Research and Technique, 2018, 81, 1017-1023.	2.2	2
9	Design of a Metal-Filled Photonic-Crystal Fiber Polarization Filter Based on Surface Plasmon Resonance at 1.31 and $1.55\mu\text{m}$. IEEE Photonics Journal, 2018, 10, 1-13.	2.0	13
10	On the design of GaN vertical MESFETs on commercial LED sapphire wafers. Solid-State Electronics, 2016, 126, 23-31.	1.4	7
11	Reduced reabsorption and enhanced propagation induced by large Stokes shift in quantum dot-filled optical fiber. Journal of Nanoparticle Research, 2016, 18, 1.	1.9	7
12	Synthesis of Nitrogen and Sulfur Co-doped Carbon Dots from Garlic for Selective Detection of Fe ³⁺ . Nanoscale Research Letters, 2016, 11, 110.	5.7	150
13	Junction temperature measurement of alternating current light-emitting-diode by threshold voltage method. Frontiers of Optoelectronics, 2016, 9, 555-559.	3.7	8
14	Bias-Enhanced Visible-Rejection of GaN Schottky Barrier Ultraviolet Photodetectors. IEEE Photonics Technology Letters, 2015, 27, 994-997.	2.5	19
15	Ultra-sensitive tandem colloidal quantum-dot photodetectors. Nanoscale, 2015, 7, 16195-16199.	5.6	13
16	Modeling the spectral responsivity of ultraviolet GaN Schottky barrier photodetectors under reverse bias. Journal of Applied Physics, 2015, 117, 134503.	2.5	5
17	Suppression of dark current through barrier engineer for solution-processed colloidal quantum-dots infrared photodetectors. Applied Physics Letters, 2015, 107, .	3.3	8
18	Monolithic integration of nitride light emitting diodes and photodetectors for bi-directional optical communication. Optics Letters, 2014, 39, 5657.	3.3	39

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19	Sidewall passivation for InGaN/GaN nanopillar light emitting diodes. Journal of Applied Physics, 2014, 116, .	2.5	30
20	Modeling the back gate effects of AlGaN/GaN HEMTs. Journal of Computational Electronics, 2014, 13, 872-876.	2.5	7
21	Solution-processed high-performance colloidal quantum dot tandem photodetectors on flexible substrates. Journal of Applied Physics, 2014, 116, 084303.	2.5	10
22	Oxygen and seizure dynamics: I. Experiments. Journal of Neurophysiology, 2014, 112, 205-212.	1.8	35
23	Nonradiative Energy Transfer Between Colloidal Quantum-Dot Phosphors and Silicon Carbide Diodes. Journal of Electronic Materials, 2013, 42, 805-808.	2.2	1
24	Time-resolved fluorescence up-conversion study of radiative recombination dynamics in III-nitride light emitting diodes over a wide bias range. Applied Physics Letters, 2013, 103, 121109.	3.3	3
25	Nonradiative energy transfer between colloidal quantum dot-phosphors and nanopillar nitride LEDs. Optics Express, 2012, 20, A333.	3.4	30
26	Near-infrared quantum dot light emitting diodes employing electron transport nanocrystals in a layered architecture. Nanotechnology, 2012, 23, 375202.	2.6	36
27	Time-resolved photoluminescence properties of CuInS ₂ /ZnS nanocrystals: Influence of intrinsic defects and external impurities. Journal of Applied Physics, 2012, 111, 124314.	2.5	69
28	The Impact of Carrier Transport Confinement on the Energy Transfer Between InGaN/GaN Quantum-Well Nanorods and Colloidal Nanocrystals. Advanced Functional Materials, 2012, 22, 3146-3152.	14.9	17
29	Near-Band-Edge Electroluminescence from Heavy-Metal-Free Colloidal Quantum Dots. Advanced Materials, 2011, 23, 3553-3558.	21.0	180
30	High-speed optical humidity sensors based on chiral sculptured thin films. Sensors and Actuators B: Chemical, 2011, 156, 593-598.	7.8	45
31	Room temperature mid-infrared surface-emitting photonic crystal laser on silicon. Applied Physics Letters, 2011, 99, .	3.3	20
32	Degradation Studies of Colloidal Quantum Dot Light-Emitting Diodes. Materials Research Society Symposia Proceedings, 2011, 1286, 55.	0.1	1
33	Employing Photo-Assisted Ligand Exchange Technique in Layered Quantum Dot LEDs. Materials Research Society Symposia Proceedings, 2011, 1286, 54.	0.1	0
34	Stability Investigation of CuInS ₂ based heavy-metal free nanocrystals. Materials Research Society Symposia Proceedings, 2011, 1316, 1.	0.1	1
35	Elimination of threading dislocations in as-grown PbSe film on patterned Si(111) substrate using molecular beam epitaxy. Applied Physics Letters, 2010, 96, 251911.	3.3	14
36	Mid-infrared surface-emitting photonic crystal microcavity light emitter on silicon. Applied Physics Letters, 2010, 97, 231103.	3.3	9

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37	Colloidal quantum dot absorption enhancement in flexible Fano filters. Applied Physics Letters, 2010, 96, .	3.3	15
38	Integration of planar and bulk heterojunctions in polymer/nanocrystal hybrid photovoltaic cells. Applied Physics Letters, 2009, 95, 063510.	3.3	35
39	Surface-enhanced fluorescence from metal sculptured thin films with application to biosensing in water. Applied Physics Letters, 2009, 94, 063106.	3.3	65
40	Colloidal nanocrystal-based light-emitting diodes fabricated on plastic toward flexible quantum dot optoelectronics. Journal of Applied Physics, 2009, 105, .	2.5	43
41	Colloidal nanocrystal-based light-emitting diodes fabricated on plastic - Towards flexible quantum dot optoelectronics. , 2009, , .		0
42	Frequency upconverted lasing of nanocrystal quantum dots in microbeads. Applied Physics Letters, 2009, 95, 183109.	3.3	15
43	Six Emerging Directions in Sculptured-Thin-Film Research. , 2008, , 295-307.		19
44	Composition-limited spectral response of hybrid photovoltaic cells containing infrared PbSe nanocrystals. Journal of Applied Physics, 2008, 104, 044306.	2.5	19
45	Stable Binary Complementary White Light-Emitting Diodes Based on Quantum-Dot/Polymer-Bilayer Structures. IEEE Photonics Technology Letters, 2008, 20, 1998-2000.	2.5	32
46	Developing bright and color-saturated quantum dot light emitting diodes towards next generation displays and solid state lighting. , 2008, , .		0
47	Multiphoton absorption induced amplified spontaneous emission from biocatalyst-synthesized ZnO nanorods. Applied Physics Letters, 2008, 92, 233116.	3.3	25
48	Developing PbSe/PbS core-shell nanocrystals quantum dots toward their potential heterojunction applications. Journal of Experimental Nanoscience, 2007, 2, 13-21.	2.4	2
49	Bright and Color-Saturated Emission from Blue Light-Emitting Diodes Based on Solution-Processed Colloidal Nanocrystal Quantum Dots. Nano Letters, 2007, 7, 3803-3807.	9.1	197
50	Bright, multicoloured light-emitting diodes based on quantum dots. Nature Photonics, 2007, 1, 717-722.	31.4	1,042
51	Circularly polarized fluorescence from light-emitting microcavities with sculptured-thin-film chiral reflectors. Optics Communications, 2006, 264, 235-239.	2.1	21
52	Microcavity Light Emitting Devices Based on Colloidal Semiconductor Nanocrystal Quantum Dots. , 2006, , .		0
53	Efficient harvest of near infrared light in nanocrystal-polymer hybrid photovoltaic composites. , 2006, , .		0
54	Feasibility study for thermal-field directed self-assembly of heteroepitaxial quantum dots. Applied Physics Letters, 2006, 88, 093105.	3.3	4

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55	An essential difference between dielectric mirrors and chiral mirrors. Microwave and Optical Technology Letters, 2005, 47, 63-64.	1.4	9
56	Microcavity light-emitting devices based on colloidal semiconductor nanocrystal quantum dots. IEEE Photonics Technology Letters, 2005, 17, 2008-2010.	2.5	19