

Junfeng Lu

List of Publications by Year in descending order

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89
papers

4,230
citations

109264

35
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114418

63
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91
all docs

91
docs citations

91
times ranked

5669
citing authors

#	ARTICLE	IF	CITATIONS
1	Triple-Mode Emission of Carbon Dots: Applications for Advanced Anti-Counterfeiting. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7231-7235.	7.2	625
2	Triple-Mode Emission of Carbon Dots: Applications for Advanced Anti-Counterfeiting. <i>Angewandte Chemie</i> , 2016, 128, 7347-7351.	1.6	467
3	Improved UV photoresponse of ZnO nanorod arrays by resonant coupling with surface plasmons of Al nanoparticles. <i>Nanoscale</i> , 2015, 7, 3396-3403.	2.8	157
4	Achieving high-resolution pressure mapping via flexible GaN/ ZnO nanowire LEDs array by piezo-phototronic effect. <i>Nano Energy</i> , 2019, 58, 633-640.	8.2	120
5	Comparative investigation on temperature-dependent photoluminescence of $\text{CH}_3\text{NH}_3\text{PbBr}_3$ and $\text{CH}_2\text{NH}_2\text{PbBr}_3$ microstructures. <i>Journal of Materials Chemistry C</i> , 2016, 4, 4408-4413.	2.7	109
6	Size Effects of Raman and Photoluminescence Spectra of CdS Nanobelts. <i>Journal of Physical Chemistry C</i> , 2013, 117, 20998-21005.	1.5	105
7	Facile synthesis of highly conductive sulfur-doped reduced graphene oxide sheets. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 1125-1130.	1.3	103
8	Large and Ultrastable All-Inorganic CsPbBr_3 Monocrystalline Films: Low-Temperature Growth and Application for High-Performance Photodetectors. <i>Advanced Materials</i> , 2018, 30, e1802110.	11.1	94
9	Nanoplate-Built ZnO Hollow Microspheres Decorated with Gold Nanoparticles and Their Enhanced Photocatalytic and Gas-Sensing Properties. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 11824-11832.	4.0	89
10	Aeolian desertification and its causes in the Zoige Plateau of China's Qinghai-Tibetan Plateau. <i>Environmental Earth Sciences</i> , 2010, 59, 1731-1740.	1.3	88
11	High-Altitude Aeolian Research on the Tibetan Plateau. <i>Reviews of Geophysics</i> , 2017, 55, 864-901.	9.0	87
12	Piezoelectricity in Multilayer Black Phosphorus for Piezotronics and Nanogenerators. <i>Advanced Materials</i> , 2020, 32, e1905795.	11.1	84
13	Single Mode ZnO Whispering-Gallery Submicron Cavity and Graphene Improved Lasing Performance. <i>ACS Nano</i> , 2015, 9, 6794-6800.	7.3	78
14	Controllable Growth of Aligned Monocrystalline CsPbBr_3 Microwire Arrays for Piezoelectric-Induced Dynamic Modulation of Single-Mode Lasing. <i>Advanced Materials</i> , 2019, 31, e1900647.	11.1	76
15	Template-free synthesis of porous ZnO/Ag microspheres as recyclable and ultra-sensitive SERS substrates. <i>Applied Surface Science</i> , 2018, 427, 830-836.	3.1	74
16	Self-powered high-performance flexible GaN/ZnO heterostructure UV photodetectors with piezo-phototronic effect enhanced photoresponse. <i>Nano Energy</i> , 2022, 94, 106945.	8.2	73
17	Self-assembled ZnO/Ag hollow spheres for effective photocatalysis and bacteriostasis. <i>Materials Research Bulletin</i> , 2018, 98, 64-69.	2.7	71
18	Direct Resonant Coupling of Al Surface Plasmon for Ultraviolet Photoluminescence Enhancement of ZnO Microrods. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 18301-18305.	4.0	69

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19	Progress in piezotronic and piezo-phototronic effect of 2D materials. <i>2D Materials</i> , 2018, 5, 042003.	2.0	62
20	Plasmon-enhanced ZnO whispering-gallery mode lasing. <i>Nano Research</i> , 2018, 11, 3050-3064.	5.8	61
21	Reversible Conversion between Schottky and Ohmic Contacts for Highly Sensitive, Multifunctional Biosensors. <i>Advanced Functional Materials</i> , 2020, 30, 1907999.	7.8	61
22	Crystal structure and electron transition underlying photoluminescence of methylammonium lead bromide perovskites. <i>Journal of Materials Chemistry C</i> , 2017, 5, 7739-7745.	2.7	58
23	Triboelectric Nanogenerator Enhanced Schottky Nanowire Sensor for Highly Sensitive Ethanol Detection. <i>Nano Letters</i> , 2020, 20, 4968-4974.	4.5	58
24	Dynamically Modulated GaN Whispering Gallery Lasing Mode for Strain Sensor. <i>Advanced Functional Materials</i> , 2019, 29, 1905051.	7.8	56
25	Plasmon-Enhanced Whispering Gallery Mode Lasing from Hexagonal Al/ZnO Microcavity. <i>ACS Photonics</i> , 2015, 2, 73-77.	3.2	54
26	Lasing mode regulation and single-mode realization in ZnO whispering gallery microcavities by the Vernier effect. <i>Nanoscale</i> , 2016, 8, 16631-16639.	2.8	54
27	Piezoelectric Effect Tuning on ZnO Microwire Whispering-Gallery Mode Lasing. <i>ACS Nano</i> , 2018, 12, 11899-11906.	7.3	51
28	Burstein-Moss Effect Behind Au Surface Plasmon Enhanced Intrinsic Emission of ZnO Microdisks. <i>Scientific Reports</i> , 2016, 6, 36194.	1.6	48
29	3D Ag/ZnO hybrids for sensitive surface-enhanced Raman scattering detection. <i>Applied Surface Science</i> , 2016, 365, 291-295.	3.1	46
30	Plasmon-enhanced Electrically Light-emitting from ZnO Nanorod Arrays/p-GaN Heterostructure Devices. <i>Scientific Reports</i> , 2016, 6, 25645.	1.6	42
31	Extra green light induced ZnO ultraviolet lasing enhancement assisted by Au surface plasmons. <i>Nanoscale</i> , 2018, 10, 623-627.	2.8	41
32	SERS-active ZnO/Ag hybrid WGM microcavity for ultrasensitive dopamine detection. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	40
33	Plasmon-Induced Accelerated Exciton Recombination Dynamics in ZnO/Ag Hybrid Nanolasers. <i>ACS Photonics</i> , 2017, 4, 2419-2424.	3.2	38
34	Synthesis and investigation of blue and green emissions of ZnS ceramics. <i>Journal of Luminescence</i> , 2013, 134, 498-503.	1.5	37
35	Plasmon coupled Fabry-Perot lasing enhancement in graphene/ZnO hybrid microcavity. <i>Scientific Reports</i> , 2015, 5, 9263.	1.6	36
36	Ultrabroadband, Large Sensitivity Position Sensitivity Detector Based on a Bi ₂ Te _{2.7} Se _{0.3} /Si Heterojunction and Its Performance Improvement by Pyro-Phototronic Effect. <i>Advanced Electronic Materials</i> , 2019, 5, 1900786.	2.6	33

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37	Controlled fabrication, lasing behavior and excitonic recombination dynamics in single crystal CH ₃ NH ₃ PbBr ₃ perovskite cuboids. <i>Science Bulletin</i> , 2019, 64, 698-704.	4.3	33
38	In ₂ O ₃ Nanowire Field-Effect Transistors with Sub-60 mV/dec Subthreshold Swing Stemming from Negative Capacitance and Their Logic Applications. <i>ACS Nano</i> , 2018, 12, 9608-9616.	7.3	32
39	Dynamic regulating of single-mode lasing in ZnO microcavity by piezoelectric effect. <i>Materials Today</i> , 2019, 24, 33-40.	8.3	32
40	Driving forces responsible for aeolian desertification in the source region of the Yangtze River from 1975 to 2005. <i>Environmental Earth Sciences</i> , 2012, 66, 257-263.	1.3	30
41	Equations for the near-surface mass flux density profile of wind-blown sediments. <i>Earth Surface Processes and Landforms</i> , 2011, 36, 1292-1299.	1.2	29
42	Phase controlled synthesis and optical properties of ZnS thin films by pulsed laser deposition. <i>Materials Research Bulletin</i> , 2013, 48, 3843-3846.	2.7	29
43	Driving forces of aeolian desertification in the source region of the Yellow River: 1975–2005. <i>Environmental Earth Sciences</i> , 2013, 70, 3245-3254.	1.3	28
44	A ZnO micro/nanowire-based photonic synapse with piezo-phototronic modulation. <i>Nano Energy</i> , 2021, 89, 106282.	8.2	26
45	Plasmon enhancement for Vernier coupled single-mode lasing from ZnO/Pt hybrid microcavities. <i>Nano Research</i> , 2017, 10, 3447-3456.	5.8	25
46	Single-mode lasing of CsPbBr ₃ perovskite NWs enabled by the Vernier effect. <i>Nanoscale</i> , 2021, 13, 4432-4438.	2.8	25
47	The significance of Gobi desert surfaces for dust emissions in China: an experimental study. <i>Environmental Earth Sciences</i> , 2011, 64, 1039-1050.	1.3	23
48	Synergistic graphene/aluminum surface plasmon coupling for zinc oxide lasing improvement. <i>Nano Research</i> , 2017, 10, 1996-2004.	5.8	23
49	The excitonic photoluminescence mechanism and lasing action in band-gap-tunable CdS _{1-x} Se _x nanostructures. <i>Nanoscale</i> , 2016, 8, 804-811.	2.8	22
50	Improved Whispering-Gallery Mode Lasing of ZnO Microtubes Assisted by the Localized Surface Plasmon Resonance of Au Nanoparticles. <i>Science of Advanced Materials</i> , 2015, 7, 1156-1162.	0.1	22
51	Tunable blue and orange emissions of ZnS:Mn thin films deposited on GaN substrates by pulsed laser deposition. <i>Journal of Luminescence</i> , 2014, 147, 310-315.	1.5	21
52	Spatial variability of vegetation characteristics, soil properties and their relationships in and around China's Badain Jaran Desert. <i>Environmental Earth Sciences</i> , 2015, 74, 6847-6858.	1.3	21
53	Crystal-Orientation-Related Dynamic Tuning of the Lasing Spectra of CdS Nanobelts by Piezoelectric Polarization. <i>ACS Nano</i> , 2019, 13, 5049-5057.	7.3	21
54	Mean airflow patterns upwind of topographic obstacles and their implications for the formation of echo dunes: A wind tunnel simulation of the effects of windward slope. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	19

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55	Preparation and Photoluminescence of (3C-ZnS)/(2H-ZnS) Superlattice in Mn-doped ZnS Nanoribbons. <i>Journal of Physical Chemistry C</i> , 2012, 116, 23013-23018.	1.5	19
56	The effect of desertification on carbon and nitrogen status in the northeastern margin of the Qinghai-Tibetan Plateau. <i>Environmental Earth Sciences</i> , 2014, 71, 807-815.	1.3	19
57	Controlled growth and photoluminescence of one-dimensional and platelike ZnS nanostructures. <i>Applied Surface Science</i> , 2012, 258, 8538-8541.	3.1	17
58	Grain-size characteristics of linear dunes on the northern margin of Qarhan Salt Lake, northwestern China. <i>Journal of Arid Land</i> , 2015, 7, 438-449.	0.9	16
59	Functional group dominance and not productivity drives species richness. <i>Plant Ecology and Diversity</i> , 2016, 9, 141-150.	1.0	16
60	Geomorphology of star dunes in the southern Kumtagh Desert, China: control factors and formation. <i>Environmental Earth Sciences</i> , 2013, 69, 267-277.	1.3	15
61	Magnitude of Species Diversity Effect on Aboveground Plant Biomass Increases Through Successional Time of Abandoned Farmlands on the Eastern Tibetan Plateau of China. <i>Land Degradation and Development</i> , 2017, 28, 370-378.	1.8	15
62	Aeolian transport over a developing transverse dune. <i>Journal of Arid Land</i> , 2014, 6, 243-254.	0.9	14
63	Tailored Fabrication of Fe_2O_3 Nanocrystals/Reduced Graphene Oxide Nanocomposites with Excellent Electromagnetic Absorption Property. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 12590-12601.	0.9	14
64	Pattern analysis of a linear dune field on the northern margin of Qarhan Salt Lake, northwestern China. <i>Journal of Arid Land</i> , 2016, 8, 670-680.	0.9	14
65	Green emission and Ag ⁺ sensing of hydroxy double salt supported gold nanoclusters. <i>Nanoscale</i> , 2016, 8, 5120-5125.	2.8	14
66	Plasmon-mediated exciton-phonon coupling in a ZnO microtower cavity. <i>Journal of Materials Chemistry C</i> , 2016, 4, 7718-7723.	2.7	13
67	Optical performance improvement in hydrothermal ZnO/graphene structures for ultraviolet lasing. <i>Journal of Materials Chemistry C</i> , 2018, 6, 3240-3244.	2.7	13
68	Influence of the gap ratio on variations in the surface shear stress and on sand accumulation in the lee of two side-by-side obstacles. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	11
69	Dual-band Fabry-Perot lasing from single ZnO microbelt. <i>Optical Materials</i> , 2016, 60, 366-372.	1.7	11
70	Wavelength tunable single-mode lasing from cesium lead halide perovskite microwires. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	11
71	Underlying mechanism of blue emission enhancement in Au decorated p-GaN film. <i>RSC Advances</i> , 2017, 7, 15071-15076.	1.7	10
72	Triple-Mode Emission of Carbon Dots: Applications for Advanced Anti-Counterfeiting (<i>Angew. Chem.</i> 25/2016). <i>Angewandte Chemie</i> , 2016, 128, 7384-7384.	1.6	9

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73	Two Photonâ€Pumped Whisperingâ€Gallery Mode Lasing and Dynamic Regulation. <i>Advanced Science</i> , 2019, 6, 1900916.	5.6	9
74	Optical and Exciton Dynamical Properties of a Screw-Dislocation-Driven ZnO:Sn Microstructure. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 12655-12662.	4.0	8
75	Interconnected SnO ₂ Microsphere Films with Improved Ultraviolet Photodetector Properties. <i>Journal of Electronic Materials</i> , 2017, 46, 6669-6676.	1.0	8
76	Energy band modification for UV photoresponse improvement in a ZnO microrod-quantum dot structure. <i>RSC Advances</i> , 2016, 6, 687-691.	1.7	7
77	Tunable single-mode lasing in a single semiconductor microrod. <i>Optics Express</i> , 2018, 26, 30021.	1.7	6
78	Effects of Au catalysts for synthesis of ZnS microstructures on the sapphire substrate. <i>Materials Letters</i> , 2013, 93, 337-340.	1.3	5
79	Brightness improvement in a graphene inserted GaN/ZnO heterojunction light emitting diode. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 395104.	1.3	4
80	Thermal effect induced dynamically lasing mode tuning in GaN whispering gallery microcavities. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 255103.	1.3	4
81	Dynamic regulating of lasing mode in a whispering-gallery microresonator by thermo-optic effect. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	4
82	Photoelectric dual-mode strain sensing based on piezoelectric effect. <i>Journal of Luminescence</i> , 2021, 238, 118237.	1.5	4
83	Lasing behavior modulation in a layered cylindrical microcavity. <i>Applied Physics B: Lasers and Optics</i> , 2015, 118, 93-100.	1.1	3
84	Optical Field Confinement Enhanced Single ZnO Microrod UV Photodetector. <i>Chinese Physics Letters</i> , 2017, 34, 078503.	1.3	3
85	Realizing single-mode lasing in all-inorganic CsPbBr ₃ perovskite microwires using intrinsic self-absorption. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	2
86	Monitoring land use and land cover change in the source region of the Yangtze River using multi-temporal Landsat data. , 2011, , .		1
87	Strain-modulated high-quality ZnO cavity modes on different crystal orientations. <i>Nanotechnology</i> , 2020, 31, 225202.	1.3	0
88	Graphene induced lasing mode tailoring in GaN floating microring cavity. <i>Europhysics Letters</i> , 0, , .	0.7	0
89	10.1063/5.0062761.1. , 2021, , .		0