

Ligong Zhang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

66

papers

2,567

citations

26

h-index

49

g-index

67

ext. papers

2,923

ext. citations

5

avg, IF

4.83

L-index

#	Paper	IF	Citations
66	On the luminescence of Ti ⁴⁺ and Eu ³⁺ in monoclinic ZrO ₂ : high performance optical thermometry derived from energy transfer. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 4518-4533	7.1	17
65	Efficient Super Broadband NIR Ca ₂ LuZr ₂ Al ₃ O ₁₂ :Cr ³⁺ ,Yb ³⁺ Garnet Phosphor for pc-LED Light Source toward NIR Spectroscopy Applications. <i>Advanced Optical Materials</i> , 2020 , 8, 1901684	8.1	69
64	Digestive Ripening-Mediated Growth of NaYbF ₄ : Core/Shell Nanoparticles for Bioimaging. <i>ACS Applied Nano Materials</i> , 2020 , 3, 10049-10056	5.6	3
63	Modulation of Field-Effect Passivation at the Back Electrode Interface Enabling Efficient Kesterite-Type CuZnSn(S,Se) Thin-Film Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 38163-38174	8.5	174
62	Laser-quality Tm:(Lu _{0.8} Sc _{0.2}) ₂ O ₃ mixed sesquioxide ceramics shaped by gelcasting of well-dispersed nanopowders. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 4919-4928	3.8	7
61	Influencing mechanism of cationic ratios on efficiency of Cu ₂ ZnSn(S,Se) ₄ solar cells fabricated with DMF-based solution approach. <i>Solar Energy Materials and Solar Cells</i> , 2019 , 195, 55-62	6.4	15
60	Electron transport behavior of polymer-derived amorphous silicoboron carbonitrides. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 6038-6047	3.8	7
59	Improving the Back Electrode Interface Quality of Cu ₂ ZnSn(S,Se) ₄ Thin-Film Solar Cells Using a Novel CuAlO ₂ Buffer Layer. <i>ACS Applied Energy Materials</i> , 2019 , 2, 2230-2237	6.1	16
58	Self-Organized Back Surface Field to Improve the Performance of CuZnSn(S,Se) Solar Cells by Applying P-Type MoSe:Nb to the Back Electrode Interface. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 31851-31859	9.5	12
57	Er ³⁺ /Yb ³⁺ codoped phosphor Ba ₃ Y ₄ O ₉ with intense red upconversion emission and optical temperature sensing behavior. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 3459-3467	7.1	65
56	Eu and F co-doped ZnO-based transparent electrodes for organic and quantum dot light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 5542-5551	7.1	11
55	Efficient Blue-emitting Phosphor SrLuO:Ce with High Thermal Stability for Near Ultraviolet (~400 nm) LED-Chip based White LEDs. <i>Scientific Reports</i> , 2018 , 8, 10463	4.9	19
54	Hydrothermal Synthesis and Upconversion Properties of About 19nm ScO: Er, Yb Nanoparticles with Detailed Investigation of the Energy Transfer Mechanism. <i>Nanoscale Research Letters</i> , 2018 , 13, 372	5	7
53	Microscopic View of Defect Evolution in Thermal Treated AlGaInAs Quantum Well Revealed by Spatially Resolved Cathodoluminescence. <i>Materials</i> , 2018 , 11,	3.5	2
52	Investigation of Interface Effect on the Performance of CHNHPbCl/ZnO UV Photodetectors. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 34744-34750	9.5	32
51	Cooperative Upconversion Luminescence Properties of Yb ³⁺ and Tb ³⁺ Heavily Codoped Silicate Garnet Obtained by Multiple Chemical Unit Cosubstitution. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 2998-3006	3.8	11
50	Origin of Anisotropic Photoluminescence in Heteroatom-Doped Carbon Nanodots. <i>Advanced Optical Materials</i> , 2017 , 5, 1601049	8.1	24

49	Shallow Acceptor State in Mg-Doped CuAlO and Its Effect on Electrical and Optical Properties: An Experimental and First-Principles Study. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 12608-12616	9.5	19
48	The Inductive Effect of Neighboring Cations in Tuning Luminescence Properties of the Solid Solution Phosphors. <i>Inorganic Chemistry</i> , 2017 , 56, 9938-9945	5.1	14
47	Ratiometric fluorescent nanosensors for selective detecting cysteine with upconversion luminescence. <i>Biosensors and Bioelectronics</i> , 2016 , 77, 124-30	11.8	55
46	Constructing bulk defective perovskite SrTiO nanocubes for high performance photocatalysts. <i>Nanoscale</i> , 2016 , 8, 16963-16968	7.7	62
45	Photoluminescence and photocatalytic properties of rhombohedral CuGaO ₂ nanoplates. <i>Scientific Reports</i> , 2016 , 6, 21135	4.9	34
44	The Formation and characteristics of ZnO/AlN and ZnO/AlN/ZnO core-shell nanowires. <i>Integrated Ferroelectrics</i> , 2016 , 172, 25-31	0.8	
43	Fast Photoconductive Responses in Organometal Halide Perovskite Photodetectors. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 2840-6	9.5	81
42	Red emission generation through highly efficient energy transfer from Ce(3+) to Mn(2+) in CaO for warm white LEDs. <i>Dalton Transactions</i> , 2016 , 45, 1539-45	4.3	28
41	A nanoscaled lanthanide metal-organic framework as a colorimetric fluorescence sensor for dipicolinic acid based on modulating energy transfer. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 7294-7301	7.1	93
40	Blue-emitting K ₂ Al ₂ B ₂ O ₇ :Eu(2+) phosphor with high thermal stability and high color purity for near-UV-pumped white light-emitting diodes. <i>Inorganic Chemistry</i> , 2015 , 54, 3189-95	5.1	116
39	Influence of Exciton Localization on the Emission and Ultraviolet Photoresponse of ZnO/ZnS Core-Shell Nanowires. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 10331-6	9.5	44
38	Efficient near-infrared downconversion and energy transfer mechanism of ce(3+)/yb(3+) codoped calcium scandate phosphor. <i>Inorganic Chemistry</i> , 2015 , 54, 4806-10	5.1	38
37	Evolution in the Electronic Structure of Polymer-derived Amorphous Silicon Carbide. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 2153-2158	3.8	13
36	Synthesis of ZnO nanowires on aluminum flake by aqueous method. <i>Applied Physics A: Materials Science and Processing</i> , 2014 , 114, 1209-1213	2.6	2
35	On electronic structure of polymer-derived amorphous silicon carbide ceramics. <i>Applied Physics Letters</i> , 2014 , 104, 221902	3.4	12
34	Highly Luminescent Carbon-Nanoparticle-Based Materials: Factors Influencing Photoluminescence Quantum Yield. <i>Particle and Particle Systems Characterization</i> , 2014 , 31, 1175-1182	3.1	39
33	Formation mechanism and optimization of highly luminescent N-doped graphene quantum dots. <i>Scientific Reports</i> , 2014 , 4, 5294	4.9	639
32	The work mechanism and sub-bandgap-voltage electroluminescence in inverted quantum dot light-emitting diodes. <i>Scientific Reports</i> , 2014 , 4, 6974	4.9	58

31	Amplified Spontaneous Green Emission and Lasing Emission From Carbon Nanoparticles. <i>Advanced Functional Materials</i> , 2014 , 24, 2689-2695	15.6	171
30	An intense blue-emitting phosphor for near-ultraviolet pumped white-light-emitting diodes: Ce ³⁺ -activated β -Ca ₂ SiO ₄ . <i>Journal of Luminescence</i> , 2014 , 152, 40-43	3.8	28
29	Monochromatic visible light-driven photocatalysis realized on 2D ZnO shell arrays. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 9132	13	10
28	Photoinduced Charge Separation and Recombination Processes in CdSe Quantum Dot and Graphene Oxide Composites with Methylene Blue as Linker. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 2919-2925	6.4	11
27	Conversion mechanism of conductivity of phosphorus-doped ZnO films induced by post-annealing. <i>Journal of Applied Physics</i> , 2013 , 113, 193105	2.5	11
26	Size-controllable Synthesis of Hierarchically Structured Mesoporous Anatase TiO ₂ Microspheres Covered With {001} Facet. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1578, 1		
25	Hybrid dandelion-like YH(O ₃ PC ₆ H ₅) ₂ :Ln (Ln = Eu ³⁺ , Tb ³⁺) particles: formation mechanism, thermal and photoluminescence properties. <i>CrystEngComm</i> , 2011 , 13, 5226	3.3	6
24	A facile template-free route to fabricate highly luminescent mesoporous gadolinium oxides. <i>CrystEngComm</i> , 2011 , 13, 4831	3.3	18
23	Structure and Optical Property of Polymer-Derived Amorphous Silicon Oxycarbides Obtained at Different Temperatures. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 3359-3363	3.8	8
22	Electrospinning preparation and photoluminescence properties of SrAl ₂ O ₄ :Ce ³⁺ nanowires. <i>Journal of Materials Science</i> , 2011 , 46, 7517-7524	4.3	12
21	Efficient energy transfer from hole transporting materials to CdSe-core CdS/ZnCdS/ZnS-multishell quantum dots in type II aligned blend films. <i>Applied Physics Letters</i> , 2011 , 99, 093106	3.4	19
20	Aluminum nanocomposites having wear resistance better than stainless steel. <i>Journal of Materials Research</i> , 2011 , 26, 2479-2483	2.5	12
19	Emission evolution of alpha-silicon nitride nanowires with temperature. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 9795-8	1.3	1
18	Optical Properties of Heavily Al-Doped Single-Crystal Si ₃ N ₄ Nanobelts. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 1364	3.8	29
17	Synthesis and characterization of multifunctional CdTe/Fe ₂ O ₃ @SiO ₂ core/shell nanosensors for Hg ²⁺ ions detection. <i>New Journal of Chemistry</i> , 2010 , 34, 2996	3.6	11
16	Oxygen diffusion through Al-doped amorphous SiO ₂ . <i>Journal of Phase Equilibria and Diffusion</i> , 2006 , 27, 671-675	1	21
15	Silicoaluminum carbonitride ceramic resist to oxidation/corrosion in water vapor. <i>Journal of Materials Research</i> , 2006 , 21, 1625-1628	2.5	60
14	Synthesis of Nd/Si Codoped YAG Powders via a Solvothermal Method. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 3570-3572	3.8	18

13	Comparison of computed tomographic and standard radiographic determination of tibial torsion in the dog. <i>Veterinary Surgery</i> , 2005 , 34, 457-62	1.7	44
12	Synthesis, Characterization, and Optical Properties of Pristine and Doped Yttrium Aluminum Garnet Nanopowders. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 284-286	3.8	25
11	Polygonal Single-Crystal Aluminum Borate Microtubes. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 485-487	3.8	16
10	Ultra-Long Single-Crystalline β -Si ₃ N ₄ Nanowires: Derived from a Polymeric Precursor. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 1647-1650	3.8	68
9	Phase Transformation of Mechanically Milled Nano-Sized α -Alumina. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 2559-2563	3.8	31
8	Polymer-Ceramic Conversion of Liquid Polyaluminasilazanes for SiAlCN Ceramics. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 2415-2419	3.8	64
7	Oxidation of Polymer-Derived SiAlCN Ceramics. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 3075-3080	3.8	59
6	Oxidation Behavior of a Fully Dense Polymer-Derived Amorphous Silicon Carbonitride Ceramic. <i>Journal of the American Ceramic Society</i> , 2004 , 87, 483-486	3.8	83
5	Synthesis and size control of monodisperse manganese-doped ZnS nanoparticles by methacrylate polymer. <i>Colloid and Polymer Science</i> , 2003 , 281, 178-181	2.4	1
4	Structure and strong ultraviolet emission characteristics of amorphous ZnO films grown by electrophoretic deposition. <i>Journal of Materials Research</i> , 2003 , 18, 151-155	2.5	24
3	Structure and photoluminescence properties of ZnO microrods. <i>Journal of Applied Physics</i> , 2003 , 94, 5605-5608	2.8	28
2	Chemical synthesis and characterization of Cu doped ZnS nano-powder. <i>Journal of Materials Science Letters</i> , 2002 , 21, 1031-1033		6
1	23.4: A Liquid Crystal Fresnel Zone Device and Its Light Focusing Properties. <i>Digest of Technical Papers SID International Symposium</i> , 2001 , 32, 366	0.5	1