Le Zhang

List of Publications by Year
in descending order

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Version: 2024-02-01

106	2,316	186265	276875
papers	citations	28 h-index	41 g-index

108	108	108	1800
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Excavating agrarian transformation under â€˜secureâ€™ crop booms: insights from the China-Myanmar borderland. Journal of Peasant Studies, 2023, 50, 339-368.	4.5	6
2	Kinetics and mechanism of the sulfurization behavior of silver conductive material in automobile industry. Rare Metals, 2022, 41, 37-44.	7.1	12
3	The exploration of quantum dot-molecular beacon based MoS2 fluorescence probing for myeloma-related Mirnas detection. Bioactive Materials, 2022, 17, 360-368.	15.6	19
4	Cross-correlation of Planck cosmic microwave background lensing with DESI galaxy groups. Monthly Notices of the Royal Astronomical Society, 2022, 511, 3548-3560.	4.4	8
5	Sensitivity tests of cosmic velocity fields to massive neutrinos. Monthly Notices of the Royal Astronomical Society, 2022, 512, 3319-3330.	4.4	6
6	GEOCHRONOLOGY OF Sn MINERALIZATION IN MYANMAR: METALLOGENIC IMPLICATIONS. Economic Geology, 2022, 117, 1387-1403.	3.8	6
7	Optical properties and energy transfer performances in high quality Cr,Nd: YAG transparent laser ceramics for solar pumped lasers. Optics Express, 2022, 30, 8762.	3.4	12
8	Novel Fluorescent Probe Based on Rare-Earth Doped Upconversion Nanomaterials and Its Applications in Early Cancer Detection. Nanomaterials, 2022, 12, 1787.	4.1	10
9	Fabrication of heavily doped Nd:YAG transparent ceramics and their thin disc solid state laser performance. Ceramics International, 2022, 48, 27799-27806.	4.8	4
10	Highly efficient Ce: Lu(Mg,Al)₂(Si,Al)₃O₁₂ phosphor ceramics for high-power white LEDs/LDs. Optics Express, 2022, 30, 25078.	3.4	3
11	Surface energy matching to improve the wetting behaviour of aqueous slurries with carrier tapes for the production of large YAG transparent ceramic flakes. Ceramics International, 2022, 48, 30564-30573.	4.8	3
12	Improved Agâ€“Si interface performance for Si solar cells using a novel Te-based glass and recrystallization process of Ag. Rare Metals, 2021, 40, 84-89.	7.1	12
13	A novel gelcasting induction method for YAG transparent ceramic. Ceramics International, 2021, 47, 4327-4332.	4.8	8
14	A novel carbon thermal reduction approach to prepare recorded purity Î²-Ti3O5 compacts from titanium dioxide and phenolic resin. Journal of Alloys and Compounds, 2021, 853, 157360.	5.5	5
15	Dual effect synergistically triggered Ce:(Y,Tb)3(Al,Mn)5O12 transparent ceramics enabling a high color-rendering index and excellent thermal stability for white LEDs. Journal of the European Ceramic Society, 2021, 41, 2834-2846.	5.7	14
16	Fabrication, optical and luminescence properties of low pressure injection molded YAG:Ce tubular ceramics for outdoor lighting. Journal of the European Ceramic Society, 2021, 41, 1564-1571.	5.7	9
17	Defect analysis during vacuum sintering of large Nd: YAG laser ceramics by FEM. Journal of Materials Science: Materials in Electronics, 2021, 32, 2925-2935.	2.2	1
18	Research Progress of Solar Directly Pumped Solid-state Laser. Chinese Journal of Luminescence, 2021, 42, 10-27.	0.5	8

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19	Broadband emission Gd₃Sc₂Al₃O₁₂:Ce³⁺ transparent ceramics with a high color rendering index for high-power white LEDs/LDs. Optics Express, 2021, 29, 9474.	3.4	17
20	Effective calcination pretreatment of Lu2O3 powders for LuAG transparent ceramics. Ceramics International, 2021, 47, 6023-6029.	4.8	3
21	Chip-level Ce:GdYAG ceramic phosphors with excellent chromaticity parameters for high-brightness white LED device. Optics Express, 2021, 29, 11938.	3.4	7
22	Composite structure Cr:YAG/Ce:YAG and (Ce,Cr):YAG/Ce:YAG transparent ceramics with high color rendering index for white LEDs/LDs. Ceramics International, 2021, 47, 11415-11422.	4.8	32
23	Highly Sensitive Detection of miRNA-155 Using Molecular Beacon-Functionalized Monolayer MoS₂ Nanosheet Probes with Duplex-Specific Nuclease-Mediated Signal Amplification. Journal of Biomedical Nanotechnology, 2021, 17, 1034-1043.	1.1	4
24	A novel route to fabricate Yb:YAG ceramic fiber and its optical performance. Journal of the European Ceramic Society, 2021, 41, 4598-4608.	5.7	5
25	Efficient spectral regulation in Ce:Lu3(Al,Cr)5O12 and Ce:Lu3(Al,Cr)5O12/Ce:Y3Al5O12 transparent ceramics with high color rendering index for high-power white LEDs/LDs. Journal of Advanced Ceramics, 2021, 10, 1107-1118.	17.4	65
26	An Agent-Based Sustainability Perspective on Payment for Ecosystem Services: Analytical Framework and Empirical Application. Sustainability, 2021, 13, 253.	3.2	5
27	Fabrication, mechanical and optical performance of AM-gel casted YAG transparent ceramics. Ceramics International, 2020, 46, 2365-2372.	4.8	16
28	High quantum efficiency Ce:(Lu,Y)₃(Al,Sc)₂Al₃O₁₂ transparent ceramics with excellent thermal stability for high-power white LEDs/LDs. Journal of Materials Chemistry C, 2020, 8, 16427-16435.	5.5	23
29	HIR4: cosmology from a simulated neutral hydrogen full sky using Horizon Run 4. Monthly Notices of the Royal Astronomical Society, 2020, 495, 1788-1806.	4.4	12
30	HIR4: cosmological signatures imprinted on the cross-correlation between a 21-cm map and galaxy clustering. Monthly Notices of the Royal Astronomical Society, 2020, 499, 4613-4625.	4.4	3
31	Combined Zircon, Molybdenite, and Cassiterite Geochronology and Cassiterite Geochemistry of the Kuntabin Tin-Tungsten Deposit in Myanmar. Economic Geology, 2020, 115, 603-625.	3.8	28
32	Phenology-Based Rice Paddy Mapping Using Multi-Source Satellite Imagery and a Fusion Algorithm Applied to the Poyang Lake Plain, Southern China. Remote Sensing, 2020, 12, 1022.	4.0	35
33	Large bismuth oxide single crystal prepared by aerosol assisted chemical vapor deposition on amorphous substrates. Materials Letters, 2020, 268, 127588.	2.6	2
34	Viscoelastic behaviors and drying kinetics of different aqueous gelcasting systems for large Nd: YAG laser ceramics rods. Journal of the American Ceramic Society, 2020, 103, 3513-3527.	3.8	7
35	High recorded color rendering index in single Ce,(Pr,Mn):YAG transparent ceramics for high-power white LEDs/LDs. Journal of Materials Chemistry C, 2020, 8, 4329-4337.	5.5	50
36	Weak thermal quenching and tunable luminescence in Ce:Y3(Al,Sc)5O12 transparent ceramics for high power white LEDs/LDs. Chemical Engineering Journal, 2020, 398, 125486.	12.7	44

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37	Ultra-high order harmonic mode-locking of a Raman fiber laser. Applied Physics Express, 2019, 12, 092002.	2.4	5
38	Taguchi method-assisted optimization of multiple effects on the optical and luminescence performance of Ce:YAG transparent ceramics for high power white LEDs. Journal of Materials Chemistry C, 2019, 7, 11431-11440.	5.5	18
39	Tunable blue/yellow emission in high-power white LED devices packaged with Ce:(Y, Gd)AG transparent ceramics. Ceramics International, 2019, 45, 14420-14425.	4.8	17
40	How transnational labor migration affects upland land use practices in the receiving country: Findings from the China-Myanmar borderland. Land Use Policy, 2019, 84, 163-176.	5.6	13
41	Protected-annealing regulated defects to improve optical properties and luminescence performance of Ce:YAG transparent ceramics for white LEDs. Journal of Materials Chemistry C, 2019, 7, 4057-4065.	5.5	76
42	Luminescence declining behaviors in YAG:Ce transparent ceramics for high power laser lighting. Journal of Materials Chemistry C, 2019, 7, 14357-14365.	5.5	43
43	Surface texture induced light extraction of novel Ce:YAG ceramic tubes for outdoor lighting. Journal of Materials Science, 2019, 54, 159-171.	3.7	19
44	Simple mass-preparation and enhanced thermal performance of Ce: YAG transparent ceramics for high power white LEDs. Ceramics International, 2019, 45, 6356-6362.	4.8	24
45	Fabrication and optical properties of divalent Cu2+ ions incorporated Ce:YAG transparent ceramics for white LEDs. Ceramics International, 2019, 45, 4817-4823.	4.8	15
46	Defects and solarization in YAG transparent ceramics. Photonics Research, 2019, 7, 549.	7.0	32
47	One-order-higher Cr⁴⁺ conversion efficiency in Cr⁴⁺:YAG transparent ceramics for a high-frequency passively Q-switched laser. Photonics Research, 2019, 7, 933.	7.0	14
48	Gd2O3 assisted densification of high quantity (Y, Gd)AG: Ce ceramic solid solutions and their luminescence characteristics. Ceramics International, 2018, 44, 8672-8678.	4.8	19
49	Stirring speed assisted homogenization of precipitation reaction for enhanced optical performance of Y2O3 transparent ceramics. Ceramics International, 2018, 44, 4967-4972.	4.8	13
50	Sintering additives regulated Cr ion charge state in Cr doped YAG transparent ceramics. Ceramics International, 2018, 44, 13820-13826.	4.8	22
51	Weakly agglomerated Î±-Al2O3 nanopowders prepared by a novel spray precipitation method. Ceramics International, 2018, 44, 11374-11380.	4.8	6
52	Isobam assisted slurry optimization and gelcasting of transparent YAG ceramics. Ceramics International, 2018, 44, 1699-1704.	4.8	32
53	Single CaO accelerated densification and microstructure control of highly transparent <scp>YAG</scp> ceramic. Journal of the American Ceramic Society, 2018, 101, 703-712.	3.8	43
54	MgO assisted densification of highly transparent YAG ceramics and their microstructural evolution. Journal of the European Ceramic Society, 2018, 38, 687-693.	5.7	57

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55	Synthesis and luminescence properties of double perovskite Gd2MgTiO6:Eu3+ red phosphors for white light-emitting diodes. Journal of Materials Science: Materials in Electronics, 2018, 29, 4122-4127.	2.2	10
56	Reverse manipulation of intrinsic point defects in ZnO-based varistor ceramics through Zr-stabilized high ionic conducting Î²III-Bi2O3 intergranular phase. Journal of the European Ceramic Society, 2018, 38, 1614-1620.	5.7	22
57	pH-induced phase evolution and enhanced physical properties of co-precipitated WO3-CuO powders and reduced bodies for microelectronics packaging. Ceramics International, 2018, 44, 22601-22608.	4.8	4
58	A Statistical Approach for Effectively Analyzing the Grain Size Distribution Along the Thickness Direction in Commercial ZnO-Based Varistor Ceramics. , 2018, , .		2
59	Ammonium citrate assisted surface modification and gel casting of YAG transparent ceramics. Ceramics International, 2018, 44, 21921-21927.	4.8	18
60	Enhanced light extraction of single-surface textured YAG:Ce transparent ceramics for high power white LEDs. Applied Surface Science, 2018, 455, 425-432.	6.1	54
61	Ammonium sulfate and PEG composite surfactant to promote dispersibility of precursors and Y2O3 powders for transparent ceramics. Ceramics International, 2018, 44, 16859-16867.	4.8	4
62	Preparation, band-structure and luminescence of double perovskite Ba2MgMoO6:Eu3+ orange-red phosphor for white LEDs. Ceramics International, 2018, 44, 17305-17312.	4.8	37
63	Multilevel Modeling of Rural Livelihood Strategies from Peasant to Village Level in Henan Province, China. Sustainability, 2018, 10, 2967.	3.2	11
64	Progress in the construction and testing of the Tianlai radio interferometers. , 2018, , .		6
65	Enhanced conversion efficiency of Cr4+ ion in Cr: YAG transparent ceramic by optimizing the annealing process and doping concentration. Journal of Alloys and Compounds, 2017, 703, 34-39.	5.5	25
66	Luminescence properties of novel double perovskite Gd2MgTiO6:Eu3+ phosphors prepared by solid state method. Journal of Materials Science: Materials in Electronics, 2017, 28, 12239-12245.	2.2	13
67	Enhanced luminescence properties of double perovskite (Ba, Sr)LaMgSbO6:Eu3+ phosphors based on composition modulation. Journal of Alloys and Compounds, 2017, 717, 156-163.	5.5	35
68	Zinc interstitial as a universal microscopic origin for the electrical degradation of ZnO-based varistors under the combined DC and temperature condition. Journal of the European Ceramic Society, 2017, 37, 3535-3540.	5.7	29
69	Improved forming performance of Î²-TCP powders by doping silica for 3D ceramic printing. Journal of Materials Science: Materials in Electronics, 2017, 28, 5391-5397.	2.2	11
70	Annealing induced discoloration of transparent YAG ceramics using divalent additives in solid-state reaction sintering. Journal of the European Ceramic Society, 2017, 37, 4123-4128.	5.7	20
71	The evolution and role of NH4Cl flux used to synthesize double perovskite BaLaMgSbO6: a potential red phosphor for white LEDs. Journal of Materials Science: Materials in Electronics, 2017, 28, 5352-5359.	2.2	0
72	High sinterability nano-Y2O3 powders prepared via decomposition of hydroxyl-carbonate precursors for transparent ceramics. Journal of Materials Science, 2017, 52, 8556-8567.	3.7	39

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73	Luminescence characteristics of single-phase white-emitting phosphor Sr2CeO4:Eu3+. Journal of Materials Science: Materials in Electronics, 2017, 28, 10131-10138.	2.2	2
74	Alumina assisted grain refinement and physical performance enhancement of yttria transparent ceramics by two-step sintering. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 684, 466-469.	5.6	20
75	Improved full-color emission and switched luminescence in single Ca3(PO4)2: Dy3+, Eu3+ phosphors for white LEDs. Journal of Alloys and Compounds, 2017, 697, 215-221.	5.5	44
76	Agitator dependent homogeneity enhancement of co-precipitation reaction for improving the dispersibility of precursors and Y2O3 powders. Ceramics International, 2017, 43, 16121-16127.	4.8	6
77	High dispersibility of Î±-Al2O3 powders from coprecipitation method by step-by-step horizontal ball-milling. Journal of Materials Science: Materials in Electronics, 2017, 28, 16254-16261.	2.2	7
78	Low temperature-sintering and microstructure of highly transparent yttria ceramics. Journal of Alloys and Compounds, 2017, 695, 2580-2586.	5.5	24
79	A novel spray co-precipitation method to prepare nanocrystalline Y2O3 powders for transparent ceramics. Journal of Materials Science: Materials in Electronics, 2017, 28, 4684-4689.	2.2	10
80	Preliminary study of 3D ball-milled powder processing and SPS-accelerated densification of ZnSe ceramics. Optical Materials Express, 2017, 7, 1131.	3.0	8
81	Over 19â€‰W Single-Mode 1545â€‰nm Er,Yb Codoped All-Fiber Laser. Advances in Condensed Matter Physics, 2017, 2017, 1-5.	1.1	2
82	High quantum yield ZnO quantum dots synthesizing via an ultrasonication microreactor method. Ultrasonics Sonochemistry, 2016, 33, 106-117.	8.2	51
83	Molecular Level Study of Graphene Networks Functionalized with Phenylenediamine Monomers for Supercapacitor Electrodes. Chemistry of Materials, 2016, 28, 9110-9121.	6.7	98
84	Influence of charge compensators Li+/Na+/K+ on luminescence properties of Sr2CeO4:Eu3+. Journal of Materials Science: Materials in Electronics, 2016, 27, 10207-10212.	2.2	8
85	Dy³⁺ doped thermally stable garnet-based phosphors: luminescence improvement by changing the host-lattice composition and co-doping Bi³⁺. RSC Advances, 2016, 6, 32381-32388.	3.6	19
86	High optical quality Y2O3 transparent ceramics with fine grain size fabricated by low temperature air pre-sintering and post-HIP treatment. Ceramics International, 2016, 42, 4238-4245.	4.8	50
87	Effect of Î³-Al2O3 additives on the microstructure of Y2O3 ceramics. Journal of Materials Science: Materials in Electronics, 2016, 27, 3384-3389.	2.2	13
88	Novel layered perovskite Sr 3 Ti 2 O 7 :Eu 3+ phosphor with high-efficiency luminescence enhanced by charge compensation. Journal of Alloys and Compounds, 2016, 657, 27-31.	5.5	38
89	Application of Te-Based Glass in Silicon Solar Cells. Acta Metallurgica Sinica (English Letters), 2015, 28, 223-229.	2.9	13
90	Enhanced luminescence of Dy3+/Bi3+ co-doped Gd3Al5O12 phosphors by high-efficiency energy transfer. Journal of Materials Science: Materials in Electronics, 2015, 26, 8507-8514.	2.2	23

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91	Dual-channel enhanced luminescence of double perovskite NaGdMgWO6:Eu3+ phosphor based on alternative excitation and delayed quenching. Journal of Alloys and Compounds, 2015, 642, 45-52.	5.5	67
92	Effects of Sintering Aids on the Transparency and Conversion Efficiency of Cr 4+ Ions in Cr: YAG Transparent Ceramics. Journal of the American Ceramic Society, 2015, 98, 2459-2464.	3.8	41
93	Systematic optimization of spray drying for YAG transparent ceramics. Journal of the European Ceramic Society, 2015, 35, 2391-2401.	5.7	43
94	Improved conversion efficiency of Cr4+ ions in Cr: YAG transparent ceramics by optimization the particle sizes of sintering aids. Optical Materials, 2015, 50, 11-14.	3.6	28
95	Enhanced luminescence and structure evolution of double perovskite (K, Na)LaMgWO6:Eu3+ phosphor for white LEDs. Journal of Materials Science: Materials in Electronics, 2015, 26, 8083-8088.	2.2	32
96	The expansion of smallholder rubber farming in Xishuangbanna, China: A case study of two Dai villages. Land Use Policy, 2015, 42, 628-634.	5.6	29
97	The process of expansion in commercial banana cropping in tropical China: A case study at a Dai village, Mengla County. Agricultural Systems, 2014, 124, 32-38.	6.1	26
98	Probabilistic image reconstruction for radio interferometers. Monthly Notices of the Royal Astronomical Society, 2014, 438, 768-778.	4.4	25
99	Simulation of the analysis of interferometric microwave background polarization data. Proceedings of the International Astronomical Union, 2014, 10, 156-158.	0.0	0
100	Optical property of SmAlO3 applied as 1.06 Î¼m laser absorbing material. Journal of Rare Earths, 2013, 31, 1102-1105.	4.8	8
101	Co-luminescence properties of terbium ionsâ€“benzoic acidâ€“phen complexes doped with europium ions. Rare Metals, 2013, 32, 599-604.	7.1	27
102	Synthesis and photoluminescence of Eu³⁺-activated double perovskite NaGdMg(W,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 C, 2013, 1, 54-57.	5.5	111
103	The Evolution and Role of <scp><scp>NH</scp></scp>₄<scp><scp>Cl</scp></scp> Flux Used to Synthesize <scp><scp>Sr</scp></scp>₂<scp><scp>SiO</scp></scp>₄:<scp><scp>Dy</scp></scp>³⁺ Phosphor by Solidâ€State Reaction Method. Journal of the American Ceramic Society, 2012, 95, 3871-3877.	3.8	19
104	Synthesis and co-luminescence properties of Tb3+-methacrylic acid-1,10-phenanthroline complexes doped with Eu3+. Rare Metals, 2012, 31, 479-483.	7.1	8
105	Preparation of water soluble acrylic resin adhesive for fluorescent lamps and its modification. Rare Metals, 2011, 30, 657-660.	7.1	6
106	Characterization of intrinsic donor defects in ZnO ceramics by dielectric spectroscopy. Applied Physics Letters, 2008, 93, .	3.3	95