

Zuoling Fu

List of Publications by Year in descending order

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73
papers

2,105
citations

186265

28
h-index

265206

42
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73
all docs

73
docs citations

73
times ranked

1647
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical Temperature Sensing Behavior of High-Efficiency Upconversion: Er ³⁺ -Yb ³⁺ -Co ²⁺ -Doped NaY(MoO ₄) ₂ Phosphor. Journal of the American Ceramic Society, 2015, 98, 2595-2600.	3.8	144
2	What determines the performance of lanthanide-based ratiometric nanothermometers?. Nanoscale, 2020, 12, 20776-20785.	5.6	82
3	Investigation on Two Forms of Temperature-Sensing Parameters for Fluorescence Intensity Ratio Thermometry Based on Thermal Coupled Theory. Inorganic Chemistry, 2018, 57, 1213-1219.	4.0	81
4	Fiber gas sensor-integrated smart face mask for room-temperature distinguishing of target gases. Nano Research, 2018, 11, 511-519.	10.4	75
5	Investigating the Luminescence Behaviors and Temperature Sensing Properties of Rare-Earth-Doped Ba ₂ In ₂ O ₅ Phosphors. Inorganic Chemistry, 2018, 57, 8841-8849.	4.0	74
6	Investigation for the upconversion luminescence and temperature sensing mechanism based on BiPO ₄ : Yb ³⁺ , RE ³⁺ (RE ³⁺ = Ho ³⁺ , Er ³⁺ and Tm ³⁺). Journal of Alloys and Compounds, 2019, 772, 371-380.	5.5	73
7	Multifunctional Optical Thermometry Based on the Rare-Earth-Ions-Doped Up-/Down-Conversion Ba ₂ TiGe ₂ O ₈ :Ln (Ln = Eu ³⁺ /Er ³⁺) Tj ETQq1 1 0.784314 rgrBT /Over	10.784314	71
8	Investigation into the temperature sensing behavior of Yb ³⁺ sensitized Er ³⁺ doped Y ₂ O ₃ , YAG and LaAlO ₃ phosphors. RSC Advances, 2015, 5, 51820-51827.	3.6	67
9	Facile template free synthesis of KLa(MoO ₄) ₂ :Eu ³⁺ ,Tb ³⁺ microspheres and their multicolor tunable luminescence. Dalton Transactions, 2014, 43, 5382-5392.	3.3	61
10	Ln ³⁺ (Er ³⁺ , Tm ³⁺ and Ho ³⁺)-doped NaYb(MoO ₄) ₂ upconversion phosphors as wide range temperature sensors with high sensitivity. Journal of Alloys and Compounds, 2017, 728, 476-483.	5.5	59
11	Hydrothermal synthesis, electronic structure and tunable luminescence of single-phase Ca ₅ (PO ₄) ₃ F:Tb ³⁺ ,Eu ³⁺ microrods. Dalton Transactions, 2014, 43, 2819-2827.	3.3	55
12	NIR-III Luminescence Ratiometric Nanothermometry with Phonon-Tuned Sensitivity. Advanced Optical Materials, 2020, 8, 1901173.	7.3	51
13	Constructing new thermally coupled levels based on different emitting centers for high sensitive optical thermometer. Chemical Engineering Journal, 2020, 381, 122654.	12.7	50
14	Investigation on the Fluorescence Intensity Ratio Sensing Thermometry Based on Nonthermally Coupled Levels. ACS Applied Bio Materials, 2019, 2, 1732-1739.	4.6	49
15	Nanostructured La ₂ O ₃ : Yb ³⁺ /Er ³⁺ : Temperature sensing, optical heating and bio-imaging application. Materials Research Bulletin, 2017, 92, 39-45.	5.2	48
16	Highly uniform NaLa(MoO ₄) ₂ :Ln ³⁺ (Ln = Eu, Dy) microspheres: template-free hydrothermal synthesis, growing mechanism, and luminescent properties. CrystEngComm, 2012, 14, 4618.	2.6	46
17	Sm ³⁺ -doped niobate orange-red phosphors with a double-perovskite structure for plant cultivation and temperature sensing. Journal of Alloys and Compounds, 2021, 889, 161671.	5.5	45
18	High concentration Eu ³⁺ -doped NaYb(MoO ₄) ₂ multifunctional material: Thermometer and plant growth lamp matching phytochrome PR. Journal of Alloys and Compounds, 2019, 782, 203-208.	5.5	41

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19	A novel upconversion luminescent material: Li ⁺ or Mg ²⁺ -codoped Bi ³⁺ W _{0.16} O _{6.24} :Tm ³⁺ , Yb ³⁺ phosphors and their temperature sensing properties. <i>Dyes and Pigments</i> , 2018, 151, 287-295.	3.7	39
20	Temperature-induced phase transition and temperature sensing behavior in Yb ³⁺ sensitized Er ³⁺ doped YPO ₄ phosphors. <i>Optical Materials</i> , 2016, 60, 526-532.	3.6	35
21	Prediction of Thermal-Coupled Thermometric Performance of Er ³⁺ . <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5786-5790.	4.6	35
22	Simultaneous luminescence in λ_{1} , λ_{2} and III biological windows realized by using the energy transfer of Yb ³⁺ →Er ³⁺ /Ho ³⁺ →Cr ³⁺ . <i>Chemical Engineering Journal</i> , 2019, 365, 400-404.	12.7	35
23	Temperature sensing and bio-imaging applications based on polyethylenimine/CaF ₂ nanoparticles with upconversion fluorescence. <i>Talanta</i> , 2017, 169, 181-188.	5.5	34
24	Multifunctional optical thermometry based on the transition metal ions doped down-conversion Gd ₂ ZnTiO ₆ : Bi ³⁺ , Mn ⁴⁺ phosphors. <i>Journal of Luminescence</i> , 2021, 229, 117653.	3.1	33
25	High sensitivity thermometry and optical heating Bi-function of Yb ³⁺ /Tm ³⁺ Co-doped BaGd ₂ ZnO ₅ phosphors. <i>Current Applied Physics</i> , 2017, 17, 255-261.	2.4	31
26	An ultrasensitive luminescent nanothermometer in the first biological window based on phonon-assisted thermal enhancing and thermal quenching. <i>Journal of Materials Chemistry C</i> , 2020, 8, 15603-15608.	5.5	30
27	Upconversion luminescence and temperature sensing characteristics of Yb ³⁺ /Tm ³⁺ :KLa(MoO ₄) ₂ phosphors. <i>Dalton Transactions</i> , 2021, 50, 1239-1245.	3.3	29
28	Controlled synthesis and tunable luminescence of uniform YPO ₄ ·0.8H ₂ O and YPO ₄ ·0.8H ₂ O@Tb ³⁺ /Eu ³⁺ nanocrystals by a facile approach. <i>Journal of Materials Chemistry C</i> , 2014, 2, 9149-9158.	5.5	28
29	Investigation into optical heating and applicability of the thermal sensor bifunctional properties of Yb ³⁺ sensitized Tm ³⁺ doped Y ₂ O ₃ , YAG and LaAlO ₃ phosphors. <i>RSC Advances</i> , 2016, 6, 97676-97683.	3.6	28
30	High-performance disease diagnosis fluorescent probe based on new type structure YbF ₃ : Er ³⁺ @SiO ₂ @QDs. <i>Chemical Engineering Journal</i> , 2021, 406, 126755.	12.7	28
31	Novel excited-state nanothermometry combining the red-shift of charge-transfer bands and a thermal coupling effect. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 3932-3937.	6.0	26
32	A novel differential display material: K ₃ LuSi ₂ O ₇ : Tb ³⁺ /Bi ³⁺ phosphor with thermal response, time resolution and luminescence color for optical anti-counterfeiting. <i>Journal of Colloid and Interface Science</i> , 2022, 608, 758-767.	9.4	26
33	An Eu/Tb-codoped inorganic apatite Ca ₅ (PO ₄) ₃ F luminescent thermometer. <i>Ceramics International</i> , 2015, 41, 7010-7016.	4.8	25
34	Color-tunable up-conversion emission from Yb ³⁺ /Er ³⁺ /Tm ³⁺ /Ho ³⁺ codoped KY(MoO ₄) ₂ microcrystals based on energy transfer. <i>Ceramics International</i> , 2016, 42, 4642-4647.	4.8	25
35	Enhancing the Upconversion Luminescence and Sensitivity of Nanothermometry through Advanced Design of Dumbbell-Shaped Structured Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 61506-61517.	8.0	23
36	Uniform Eu ³⁺ -doped YF ₃ microcrystals: inorganic salt-controlled synthesis and their luminescent properties. <i>CrystEngComm</i> , 2012, 14, 3915.	2.6	20

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37	Controlled morphology and EDTA-induced pure green upconversion luminescence of Er ³⁺ /Ho ³⁺ -Yb ³⁺ -co-doped NaCe(MoO ₄) ₂ phosphor. RSC Advances, 2015, 5, 70220-70228.	3.6	20
38	Study for optimizing the design of optical temperature sensor. Applied Physics Letters, 2017, 111, .	3.3	19
39	Highly sensitive self-referencing thermometry probe and advanced anti-counterfeiting based on the CDs/YVO ₄ :Eu ³⁺ composite materials. Scripta Materialia, 2020, 186, 298-303.	5.2	19
40	Trimodal Ratiometric Luminescent Thermometer Covering Three Near-Infrared Transparency Windows. Inorganic Chemistry, 2021, 60, 14944-14951.	4.0	19
41	Investigation on the up-conversion luminescence and temperature sensing properties based on non-thermally coupled levels of rare earth ions doped Ba ₂ In ₂ O ₅ phosphor. Journal of Luminescence, 2019, 206, 273-277.	3.1	18
42	A novel and tunable upconversion luminescent material GdPO ₄ : Yb ³⁺ , Ln ³⁺ (Ln=Er, Tm, Ho). Materials Research Bulletin, 2014, 56, 138-142.	5.2	17
43	Superior temperature sensing of small-sized upconversion nanocrystals for simultaneous bioimaging and enhanced synergetic therapy. Nanomedicine: Nanotechnology, Biology, and Medicine, 2020, 24, 102135.	3.3	17
44	Up-conversion luminescent properties and optical thermometry of LaMgAl ₁₁ O ₁₉ : Yb ³⁺ /Er ³⁺ phosphors. Ceramics International, 2015, 41, 14064-14069.	4.8	15
45	The Charge Transfer Band as a Key to Study the Site Selection Preference of Eu ³⁺ in Inorganic Crystals. Inorganic Chemistry, 2021, 60, 19440-19447.	4.0	15
46	Hydrothermal synthesis and luminescence properties of Ca ₅ (PO ₄) ₃ F: Eu ³⁺ microrods. Journal of Luminescence, 2014, 152, 226-229.	3.1	14
47	Hydrothermal synthesis and tunable luminescence of CaSiO ₃ :RE ³⁺ (RE ³⁺ =Eu ³⁺ , Sm ³⁺ , Tb ³⁺ , Dy ³⁺) nanocrystals. Materials Research Bulletin, 2015, 65, 315-319.	5.2	14
48	NaLa(MoO ₄) ₂ : RE ³⁺ (RE ³⁺ =Eu ³⁺ , Sm ³⁺ , Er ³⁺ /Yb ³⁺) microspheres: the synthesis and optical properties. Materials Research Bulletin, 2015, 70, 779-783.	5.2	14
49	One-pot synthesis of SiO ₂ -coated Gd ₂ (WO ₄) ₃ :Yb ³⁺ /Ho ³⁺ nanoparticles for simultaneous multi-imaging, temperature sensing and tumor inhibition. Dalton Transactions, 2019, 48, 10537-10546.	3.3	14
50	Designing down- and up-conversion dual-mode luminescence of lanthanide-doped phosphors for temperature sensing. Journal of Luminescence, 2019, 206, 176-184.	3.1	14
51	One pot synthesis and optimized luminescent intensity of Gd ₂ (WO ₄) ₃ : Yb ³⁺ /Ho ³⁺ @SiO ₂ nanoparticles for biological application. Journal of Luminescence, 2019, 206, 1-5.	3.1	14
52	Solvothermal synthesis and luminescence properties of BaCeF ₅ , and BaCeF ₅ :Tb ³⁺ nanocrystals. RSC Advances, 2012, 2, 4697.	3.6	13
53	Core-shell mutual enhanced luminescence based on space isolation strategy for anti-counterfeiting applications. Journal of Luminescence, 2020, 218, 116862.	3.1	13
54	Optical properties of the CaEuAl ₃ O ₇ phosphor with dual-activator Eu ²⁺ /Eu ³⁺ for multifunctional applications. Journal of the American Ceramic Society, 2020, 103, 5721-5730.	3.8	13

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55	Investigation of structural and luminescent properties of Ce ³⁺ /Mn ²⁺ ions-doped Ca ₅ (PO ₄) ₃ F. <i>Materials Research Bulletin</i> , 2014, 56, 65-70.	5.2	12
56	Solvothermal synthesis of CeF ₃ : Tm ³⁺ , Yb ³⁺ microcrystals with visible upconversion luminescence by 980nm excitation. <i>Journal of Alloys and Compounds</i> , 2013, 549, 362-365.	5.5	11
57	EDTA-mediated morphology and tunable optical properties of Eu ³⁺ -doped NaY(MoO ₄) ₂ phosphor. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 6659-6666.	2.2	11
58	Investigation of photoluminescence properties of Eu ³⁺ -doped GdAlO ₃ and LaAlO ₃ by site-selective laser spectroscopy. <i>Materials Letters</i> , 2012, 74, 140-142.	2.6	10
59	Synthesis and investigation of luminescence properties of Eu ³⁺ -doped cubic perovskite Ba ₃ Y ₂ WO ₉ . <i>Optical Materials</i> , 2013, 35, 1577-1581.	3.6	10
60	Optically Pumped Monolayer MoSe ₂ Excitonic Lasers from Whispering Gallery Mode Microcavities. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 541-547.	4.6	8
61	A self-luminous CaEuAl ₃ O ₇ phosphor: Structural and optical characteristics. <i>Ceramics International</i> , 2014, 40, 10573-10576.	4.8	7
62	Thermal sensor and optical heater of upconversion phosphor: Yb ³⁺ /Er ³⁺ co-doped KY(MoO ₄) ₂ . <i>Physica B: Condensed Matter</i> , 2017, 525, 149-153.	2.7	7
63	Self-calibrated ratiometric thermometers and multi-mode anti-counterfeiting based on Ca ₂ LaNbO ₆ :Pr ³⁺ optical material. <i>Scripta Materialia</i> , 2022, 211, 114515.	5.2	7
64	Sema6A-plexin-A2 axis stimulates RANKL-induced osteoclastogenesis through PLC β -mediated NFATc1 activation. <i>Life Sciences</i> , 2019, 222, 29-35.	4.3	6
65	Tunable KLa(MoO ₄) ₂ :Eu ³⁺ @CDs composite materials for white LED and multi-mode information encryption technology. <i>Journal of Alloys and Compounds</i> , 2022, 894, 162298.	5.5	5
66	Multifunctional lanthanide ions-doped Ba ₂ TiGe ₂ O ₈ phosphor for near-infrared ratiometric thermometer and information security. <i>Journal of Luminescence</i> , 2022, 243, 118652.	3.1	5
67	Dual-mode multicolor luminescence based on lanthanide-doped Na ₂ CaGe ₂ O ₆ phosphor for anticounterfeiting application. <i>Journal of Luminescence</i> , 2022, 249, 118937.	3.1	5
68	Optical thermometry and heating based on the upconversion fluorescence from Yb ³⁺ /Er ³⁺ co-doped NaLa(MoO ₄) ₂ phosphor. <i>Journal of Materials Research</i> , 2016, 31, 3482-3488.	2.6	4
69	Inhomogeneous-Broadening-Induced Intense Upconversion Luminescence in Tm ³⁺ and Yb ³⁺ Codoped Lu ₂ O ₃ •ZrO ₂ Disordered Crystals. <i>Inorganic Chemistry</i> , 2017, 56, 12291-12296.	4.0	4
70	A Thermometer Based on Er ³⁺ -Sensitized Phosphors Gd ₂ (WO ₄) ₃ :Er,Yb@SiO ₂ in Near-Infrared and Visible Regions. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 1900773.	1.5	4
71	Choice of low thermal quenching phosphors based on high lattice energy for light-emitting application. <i>Journal of Luminescence</i> , 2020, 222, 117098.	3.1	4
72	Investigation of high-concentration doping performance based on Er ³⁺ -ion-doped Ba ₆ Gd ₂ Ti ₄ O ₁₇ . <i>Dalton Transactions</i> , 2021, 50, 9483-9490.	3.3	1

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73	Solvothermal synthesis of CeF ₃ : Er ³⁺ , Yb ³⁺ nanoplates with visible upconversion luminescence by 980nm excitation. Materials Research Bulletin, 2013, 48, 884-888.	5.2	0