

Yayun Zhou

List of Publications by Year in descending order

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60
papers

3,200
citations

147801

31
h-index

155660

55
g-index

60
all docs

60
docs citations

60
times ranked

1396
citing authors

#	ARTICLE	IF	CITATIONS
1	Emerging ultra-narrow-band cyan-emitting phosphor for white LEDs with enhanced color rendition. <i>Light: Science and Applications</i> , 2019, 8, 38.	16.6	369
2	Highly Efficient and Stable Narrow-Band Red Phosphor Cs ₂ SiF ₆ :Mn ⁴⁺ for High-Power Warm White LED Applications. <i>ACS Photonics</i> , 2017, 4, 2556-2565.	6.6	177
3	Li substituent tuning of LED phosphors with enhanced efficiency, tunable photoluminescence, and improved thermal stability. <i>Science Advances</i> , 2019, 5, eaav0363.	10.3	153
4	A new red phosphor BaGeF ₆ :Mn ⁴⁺ : hydrothermal synthesis, photo-luminescence properties, and its application in warm white LED devices. <i>Journal of Materials Chemistry C</i> , 2015, 3, 3055-3059.	5.5	144
5	Polyhedron Transformation toward Stable Narrow-Band Green Phosphors for Wide-Color-Gamut Liquid Crystal Display. <i>Advanced Functional Materials</i> , 2019, 29, 1901988.	14.9	140
6	A thermally stable narrow-band green-emitting phosphor MgAl ₂ O ₄ :Mn ²⁺ for wide color gamut backlight display application. <i>Journal of Materials Chemistry C</i> , 2019, 7, 8192-8198.	5.5	110
7	Discovery of New Narrow-Band Phosphors with the UCr ₄ C ₄ -Related Type Structure by Alkali Cation Effect. <i>Advanced Optical Materials</i> , 2019, 7, 1801631.	7.3	109
8	Giant Red-Shifted Emission in (Sr,Ba)Y ₂ O ₄ :Eu ²⁺ Phosphor Toward Broadband Near-Infrared Luminescence. <i>Advanced Functional Materials</i> , 2022, 32, 2103927.	14.9	109
9	A General Ammonium Salt Assisted Synthesis Strategy for Cr ³⁺ -Doped Hexafluorides with Highly Efficient Near Infrared Emissions. <i>Advanced Functional Materials</i> , 2021, 31, 2103743.	14.9	107
10	A new and efficient red phosphor for solid-state lighting: Cs ₂ TiF ₆ :Mn ⁴⁺ . <i>Journal of Materials Chemistry C</i> , 2015, 3, 9615-9619.	5.5	94
11	Synthesis and warm-white LED applications of an efficient narrow-band red emitting phosphor, Rb ₂ ZrF ₆ :Mn ⁴⁺ . <i>Journal of Materials Chemistry C</i> , 2017, 5, 7253-7261.	5.5	77
12	Red-emitting phosphors Na ₂ XF ₆ :Mn ⁴⁺ (X = Si, Ge, Ti) with high colour-purity for warm white-light-emitting diodes. <i>RSC Advances</i> , 2015, 5, 58136-58140.	3.6	76
13	Surface Passivation toward Highly Stable Mn ⁴⁺ -Activated Red-Emitting Fluoride Phosphors and Enhanced Photostability for White LEDs. <i>Advanced Materials Interfaces</i> , 2019, 6, 1802006.	3.7	75
14	Tailoring photoluminescence stability in double perovskite red phosphors A ₂ BAlF ₆ :Mn ⁴⁺ (A = Rb, Cs; B = K, Rb) via neighboring-cation modulation. <i>Journal of Materials Chemistry C</i> , 2017, 5, 12422-12429.	5.5	72
15	Stable narrowband red phosphor K ₃ GaF ₆ :Mn ⁴⁺ derived from hydrous K ₂ GaF ₅ (H ₂ O) and K ₂ MnF ₆ . <i>Journal of Materials Chemistry C</i> , 2017, 5, 9588-9596.	5.5	70
16	Mn ²⁺ -activated dual-wavelength emitting materials toward wearable optical fibre temperature sensor. <i>Nature Communications</i> , 2022, 13, 2166.	12.8	70
17	Lead-free Mn ⁴⁺ -based red-emitting hybrid halide (CH ₆ N ₃) ₂ MnCl ₄ toward high performance warm WLEDs. <i>Journal of Materials Chemistry C</i> , 2021, 9, 4895-4902.	5.5	63
18	Optical performance of Mn ⁴⁺ in a new hexa-coordinated fluorozirconate complex of Cs ₂ ZrF ₆ . <i>Journal of Materials Chemistry C</i> , 2016, 4, 7443-7448.	5.5	62

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19	Three Birds with One Stone: $K_2SiF_6:Mn^{4+}$ Single Crystal Phosphors for High-Power and Laser-Driven Lighting. <i>Advanced Optical Materials</i> , 2020, 8, 2000976.	7.3	59
20	Unveiling Mn^{4+} substitution in oxyfluoride phosphor $Rb_2MoO_2F_4:Mn^{4+}$ applied to wide-gamut fast-response backlight displays. <i>Chemical Engineering Journal</i> , 2021, 415, 128974.	12.7	56
21	Highly efficient red phosphor $Cs_2GeF_6:Mn^{4+}$ for warm white light-emitting diodes. <i>RSC Advances</i> , 2015, 5, 82409-82414.	3.6	55
22	Luminescence behaviour of Mn^{4+} ions in seven coordination environments of K_3ZrF_7 . <i>Dalton Transactions</i> , 2016, 45, 9654-9660.	3.3	55
23	Competitive Site Occupation toward Improved Quantum Efficiency of $SrLaScO_4:Eu$ Red Phosphors for Warm White LEDs. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	55
24	Synthesis of $K_2XF_6:Mn^{4+}$ ($X=Ti, Si$ and Ge) red phosphors for white LED applications with low-concentration of HF. <i>Optical Materials</i> , 2015, 49, 235-240.	3.6	51
25	Non-equivalent Mn^{4+} doping into A_2NaScF_6 ($A = K, Rb, Cs$) hosts toward short fluorescence lifetime for backlight display application. <i>Journal of Materials Chemistry C</i> , 2019, 7, 9203-9210.	5.5	51
26	Stable narrowband red emission in fluorotellurate $KTeF_5:Mn^{4+}$ via Mn^{4+} noncentral-site occupation. <i>Journal of Materials Chemistry C</i> , 2018, 6, 4418-4426.	5.5	47
27	Rapid Synthesis of Red-Emitting $Sr_2Sc_{0.5}Ga_{1.5}O_5:Eu^{2+}$ Phosphors and the Tunable Photoluminescence Via Sr/Ba Substitution. <i>Advanced Optical Materials</i> , 2021, 9, 2100131.	7.3	47
28	Single-Crystal Red Phosphors and Their Core-Shell Structure for Improved Water-Resistance for Laser Diodes Applications. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 3940-3945.	13.8	46
29	Hydrothermal synthesis and luminescent properties of $BaTiF_6:Mn^{4+}$ red phosphor for LED backlighting. <i>Materials Research Bulletin</i> , 2016, 73, 14-20.	5.2	40
30	An efficient and stable narrow band Mn^{4+} -activated fluorotitanate red phosphor $Rb_2TiF_6:Mn^{4+}$ for warm white LED applications. <i>Journal of Materials Chemistry C</i> , 2018, 6, 8670-8678.	5.5	40
31	Fabrication and application of non-rare earth red phosphors for warm white-light-emitting diodes. <i>RSC Advances</i> , 2015, 5, 84821-84826.	3.6	34
32	Interstitial Li^{+} Occupancy Enabling Radiative/Nonradiative Transition Control toward Highly Efficient Cr^{3+} -Based Near-Infrared Luminescence. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 31035-31043.	8.0	32
33	Narrow Bandwidth Luminescence in $Sr_2Li(Al,Ga)O_4:Eu^{2+}$ by Selective Site Occupancy Engineering for High Definition Displays. <i>Laser and Photonics Reviews</i> , 2021, 15, 2100392.	8.7	31
34	Mn^{4+} -activated $BaSiF_6$ red phosphor: Hydrothermal synthesis and dependence of its luminescent properties on reaction conditions. <i>Materials Chemistry and Physics</i> , 2016, 170, 32-37.	4.0	29
35	Implementation of high color quality, high luminous warm WLED using efficient and thermally stable $Rb_3AlF_6:Mn^{4+}$ as red color converter. <i>Journal of Alloys and Compounds</i> , 2019, 795, 453-461.	5.5	28
36	Site-Selective Occupancy of Mn^{2+} Enabling Adjustable Red/Near-Infrared Multimode Luminescence in Olivine for Dynamic Anticounterfeiting and Encryption. <i>ACS Applied Electronic Materials</i> , 2022, 4, 831-841.	4.3	28

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37	A Guanidinium-Based Mn ⁴⁺ -Doped Red-Emitting Hybrid Phosphor with High Stability. ACS Applied Electronic Materials, 2020, 2, 4134-4145.	4.3	24
38	Shining Mn ⁴⁺ in OD Organometallic Fluoride Hosts towards Highly Efficient Photoluminescence. Advanced Optical Materials, 2022, 10, .	7.3	24
39	Long-lived Photon Upconversion Phosphorescence in RbCaF ₃ :Mn ²⁺ ,Yb ³⁺ and the Dynamic Color Separation Effect. IScience, 2019, 19, 597-606.	4.1	23
40	Facile <i>in situ</i> synthesis of zeolite-encapsulating Cs ₂ SiF ₆ :Mn ⁴⁺ for application in WLEDs. Journal of Materials Chemistry C, 2019, 7, 1345-1352.	5.5	23
41	Mn ⁴⁺ doped narrowband red phosphors with short fluorescence lifetime and high color stability for fast-response backlight display application. Journal of Alloys and Compounds, 2021, 855, 157347.	5.5	21
42	Local structure and luminescent properties of Cs ₂ KGaF ₆ :Mn ⁴⁺ phosphor for backlight white LEDs. Journal of Alloys and Compounds, 2021, 881, 160624.	5.5	20
43	Luminescence Enhancement of Mn ⁴⁺ -Activated Fluorides via a Heterovalent Co-Doping Strategy for Monochromatic Multiplexing. ACS Applied Materials & Interfaces, 2021, 13, 51255-51265.	8.0	18
44	Mn ⁴⁺ non-equivalent doped fluoride phosphors with a short fluorescence decay time for backlighting. Dalton Transactions, 2022, 51, 2512-2516.	3.3	17
45	The Photoluminescent Properties of New Cationic Iridium(III) Complexes Using Different Anions and Their Applications in White Light-Emitting Diodes. Materials, 2015, 8, 6105-6116.	2.9	16
46	Unraveling the Ultrafast Self-assembly and Photoluminescence in Zero-Dimensional Mn ²⁺ -Based Halides with Narrow-Band Green Emissions. ACS Applied Electronic Materials, 2021, 3, 4144-4150.	4.3	16
47	Novel red phosphors LaBSiO ₅ co-doped with Eu ³⁺ , Al ³⁺ for near-UV light-emitting diodes. Optical Materials, 2014, 37, 277-280.	3.6	15
48	Color-tunable upconversion luminescence and prolonged Eu ³⁺ fluorescence lifetime in fluoride KCdF ₃ :Yb ³⁺ ,Mn ²⁺ ,Eu ³⁺ via controllable and efficient energy transfer. Journal of Materials Chemistry C, 2020, 8, 9836-9844.	5.5	15
49	Highly efficient and thermally stable broadband near-infrared emitting fluoride Cs ₂ KGaF ₆ :Cr ³⁺ for multiple LED applications. Journal of Materials Chemistry C, 2022, 10, 10292-10301.	5.5	15
50	Single-Crystal Red Phosphors and Their Core-Shell Structure for Improved Water-Resistance for Laser Diodes Applications. Angewandte Chemie, 2021, 133, 3986-3991.	2.0	14
51	Photon upconversion afterglow materials toward visualized information coding/decoding. Journal of Materials Chemistry C, 2020, 8, 3678-3687.	5.5	14
52	Ammonium salt conversion towards Mn ⁴⁺ doped (NH ₄) ₂ NaScF ₆ narrow-band red-emitting phosphor. Journal of Alloys and Compounds, 2019, 811, 151945.	5.5	12
53	Ultraintense Zero-Phonon Line from a Mn ⁴⁺ Red-Emitting Phosphor for High-Quality Backlight Display Applications. Inorganic Chemistry, 2021, 60, 19197-19205.	4.0	12
54	The use of a single ammonium acidic salt towards simple green co-precipitation synthesis for Mn ⁴⁺ -activated fluorides. Dalton Transactions, 2020, 49, 5823-5831.	3.3	11

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55	Ultrafast green ion-exchange and short lifetime of efficient (NH ₄) ₃ SiF ₇ :Mn ⁴⁺ millimeter-sized single crystal for backlight displays. <i>Journal of Alloys and Compounds</i> , 2020, 847, 156550.	5.5	9
56	Defect-related luminescence behavior of a Mn ⁴⁺ non-equivalently doped fluoroantimonate red phosphor. <i>Dalton Transactions</i> , 2022, 51, 608-617.	3.3	9
57	Structure and luminescence behaviour of a novel red-emitting fluoroperovskite for display backlight application. <i>Dalton Transactions</i> , 2021, 50, 11221-11227.	3.3	5
58	A red-emitting phosphor K ₅ In ₃ F ₁₄ :Mn ⁴⁺ and its potential application in the backlighting. <i>Optical Materials</i> , 2022, 126, 112223.	3.6	3
59	Luminescent properties and energy transfer in the green phosphors LaBSiO ₅ :Tb ³⁺ ,Ce ³⁺ . <i>Luminescence</i> , 2015, 30, 719-722.	2.9	2
60	Revealing Mn ⁴⁺ Local Symmetry in Narrowband Red-Emitting Phosphor Rb ₂ NaGaF ₆ :Mn ⁴⁺ for Wide-Color-Gamut Backlighting. <i>ECS Journal of Solid State Science and Technology</i> , 2021, 10, 096011.	1.8	1