

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	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
2	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
3	Mn ⁴⁺ non-equivalent doped fluoride phosphors with a short fluorescence decay time for backlighting. <i>Dalton Transactions</i> , 2022, 51, 2512-2516.	3.3	17
4	Shining Mn ⁴⁺ in OD Organometallic Fluoride Hosts towards Highly Efficient Photoluminescence. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	24
5	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
6	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
7	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
8	Mn ²⁺ -activated dual-wavelength emitting materials toward wearable optical fibre temperature sensor. <i>Nature Communications</i> , 2022, 13, 2166.	12.8	70
9	Highly efficient and thermally stable broadband near-infrared emitting fluoride Cs ₂ KGaF ₆ :Cr ³⁺ for multiple LED applications. <i>Journal of Materials Chemistry C</i> , 2022, 10, 10292-10301.	5.5	15
10	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
11	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
12	Single-Crystal Red Phosphors and Their Core-Shell Structure for Improved Water-Resistance for Laser Diodes Applications. <i>Angewandte Chemie</i> , 2021, 133, 3986-3991.	2.0	14
13	Mn ⁴⁺ doped narrowband red phosphors with short fluorescence lifetime and high color stability for fast-response backlight display application. <i>Journal of Alloys and Compounds</i> , 2021, 855, 157347.	5.5	21
14	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
15	Lead-free Mn ^{II} -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
16	Rapid Synthesis of Red-Emitting Sr ₂ Sc _{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
17	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
18	Unveiling Mn ⁴⁺ substitution in oxyfluoride phosphor Rb ₂ MoO ₂ F ₄ :Mn ⁴⁺ applied to wide-gamut fast-response backlight displays. <i>Chemical Engineering Journal</i> , 2021, 415, 128974.	12.7	56

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19	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
20	Revealing Mn ⁴⁺ Local Symmetry in Narrowband Red-Emitting Phosphor Rb ₂ NaGaF ₆ :Mn ⁴⁺ for Wide-Color-Gamut Backlighting. ECS Journal of Solid State Science and Technology, 2021, 10, 096011.	1.8	1
21	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
22	Narrow Bandwidth Luminescence in Sr ₂ Li(Al,Ga)O ₄ :Eu ²⁺ by Selective Site Occupancy Engineering for High Definition Displays. Laser and Photonics Reviews, 2021, 15, 2100392.	8.7	31
23	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
24	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
25	Ultrafast green ion-exchange and short lifetime of efficient (NH ₄) ₃ SiF ₇ :Mn ⁴⁺ millimeter-sized single crystal for backlight displays. Journal of Alloys and Compounds, 2020, 847, 156550.	5.5	9
26	Three Birds with One Stone: K ₂ SiF ₆ :Mn ⁴⁺ Single Crystal Phosphors for High-Power and Laser-Driven Lighting. Advanced Optical Materials, 2020, 8, 2000976.	7.3	59
27	A Guanidinium-Based Mn ⁴⁺ -Doped Red-Emitting Hybrid Phosphor with High Stability. ACS Applied Electronic Materials, 2020, 2, 4134-4145.	4.3	24
28	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
29	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
30	Photon upconversion afterglow materials toward visualized information coding/decoding. Journal of Materials Chemistry C, 2020, 8, 3678-3687.	5.5	14
31	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
32	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
33	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
34	Polyhedron Transformation toward Stable Narrow-Band Green Phosphors for Wide-Color-Gamut Liquid Crystal Display. Advanced Functional Materials, 2019, 29, 1901988.	14.9	140
35	Non-equivalent Mn ⁴⁺ doping into A ₂ NaScF ₆ (A = K, Rb, Cs) hosts toward short fluorescence lifetime for backlight display application. Journal of Materials Chemistry C, 2019, 7, 9203-9210.	5.5	51
36	A thermally stable narrow-band green-emitting phosphor MgAl ₂ O ₄ :Mn ²⁺ for wide color gamut backlight display application. Journal of Materials Chemistry C, 2019, 7, 8192-8198.	5.5	110

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37	Implementation of high color quality, high luminous warm WLED using efficient and thermally stable Rb ₃ AlF ₆ :Mn ⁴⁺ as red color converter. Journal of Alloys and Compounds, 2019, 795, 453-461.	5.5	28
38	Surface Passivation toward Highly Stable Mn ⁴⁺ -Activated Red-Emitting Fluoride Phosphors and Enhanced Photostability for White LEDs. Advanced Materials Interfaces, 2019, 6, 1802006.	3.7	75
39	Emerging ultra-narrow-band cyan-emitting phosphor for white LEDs with enhanced color rendition. Light: Science and Applications, 2019, 8, 38.	16.6	369
40	Discovery of New Narrow-Band Phosphors with the UCr ₄ C ₄ -Related Type Structure by Alkali Cation Effect. Advanced Optical Materials, 2019, 7, 1801631.	7.3	109
41	Li substituent tuning of LED phosphors with enhanced efficiency, tunable photoluminescence, and improved thermal stability. Science Advances, 2019, 5, eaav0363.	10.3	153
42	Stable narrowband red emission in fluorotellurate KTeF ₅ :Mn ⁴⁺ via Mn ⁴⁺ noncentral-site occupation. Journal of Materials Chemistry C, 2018, 6, 4418-4426.	5.5	47
43	An efficient and stable narrow band Mn ⁴⁺ -activated fluorotitanate red phosphor Rb ₂ TiF ₆ :Mn ⁴⁺ for warm white LED applications. Journal of Materials Chemistry C, 2018, 6, 8670-8678.	5.5	40
44	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 . Journal of Materials Chemistry C, 2017, 5, 9588-9596.	5.5	70
45	Highly Efficient and Stable Narrow-Band Red Phosphor Cs ₂ SiF ₆ :Mn ⁴⁺ for High-Power Warm White LED Applications. ACS Photonics, 2017, 4, 2556-2565.	6.6	177
46	Tailoring photoluminescence stability in double perovskite red phosphors A ₂ BAlF ₆ :Mn ⁴⁺ (A = Rb, Cs; B = K, Rb) via neighboring-cation modulation. Journal of Materials Chemistry C, 2017, 5, 12422-12429.	5.5	72
47	Synthesis and warm-white LED applications of an efficient narrow-band red emitting phosphor, Rb ₂ ZrF ₆ :Mn ⁴⁺ . Journal of Materials Chemistry C, 2017, 5, 7253-7261.	5.5	77
48	Optical performance of Mn ⁴⁺ in a new hexa-coordinated fluorozirconate complex of Cs ₂ ZrF ₆ . Journal of Materials Chemistry C, 2016, 4, 7443-7448.	5.5	62
49	Luminescence behaviour of Mn ⁴⁺ ions in seven coordination environments of K ₃ ZrF ₇ . Dalton Transactions, 2016, 45, 9654-9660.	3.3	55
50	Mn ⁴⁺ -activated BaSiF ₆ red phosphor: Hydrothermal synthesis and dependence of its luminescent properties on reaction conditions. Materials Chemistry and Physics, 2016, 170, 32-37.	4.0	29
51	Hydrothermal synthesis and luminescent properties of BaTiF ₆ :Mn ⁴⁺ red phosphor for LED backlighting. Materials Research Bulletin, 2016, 73, 14-20.	5.2	40
52	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
53	A new red phosphor BaGeF ₆ :Mn ⁴⁺ : hydrothermal synthesis, photo-luminescence properties, and its application in warm white LED devices. Journal of Materials Chemistry C, 2015, 3, 3055-3059.	5.5	144
54	Red-emitting phosphors Na ₂ XF ₆ :Mn ⁴⁺ (X = Si, Ge, Ti) with high colour-purity for warm white-light-emitting diodes. RSC Advances, 2015, 5, 58136-58140.	3.6	76

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55	Fabrication and application of non-rare earth red phosphors for warm white-light-emitting diodes. RSC Advances, 2015, 5, 84821-84826.	3.6	34
56	Highly efficient red phosphor Cs ₂ GeF ₆ :Mn ⁴⁺ for warm white light-emitting diodes. RSC Advances, 2015, 5, 82409-82414.	3.6	55
57	Synthesis of K ₂ XF ₆ :Mn ⁴⁺ (X=Ti, Si and Ge) red phosphors for white LED applications with low-concentration of HF. Optical Materials, 2015, 49, 235-240.	3.6	51
58	A new and efficient red phosphor for solid-state lighting: Cs ₂ TiF ₆ :Mn ⁴⁺ . Journal of Materials Chemistry C, 2015, 3, 9615-9619.	5.5	94
59	Luminescent properties and energy transfer in the green phosphors LaBSiO ₅ :Tb ³⁺ ,Ce ³⁺ . Luminescence, 2015, 30, 719-722.	2.9	2
60	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