

Enhai Song

List of Publications by Year in descending order

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74
papers

3,788
citations

117625

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1986
citing authors

#	ARTICLE	IF	CITATIONS
1	Shining Mn ⁴⁺ in OD Organometallic Fluoride Hosts towards Highly Efficient Photoluminescence. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	24
2	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
3	Efficient Visible Light Charging for Rare Earth-Free Persistent Phosphor. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	15
4	Mn ²⁺ -activated dual-wavelength emitting materials toward wearable optical fibre temperature sensor. <i>Nature Communications</i> , 2022, 13, 2166.	12.8	70
5	Eu ²⁺ doped halide perovskite KCaCl ₃ with high-efficiency blue emission and scintillation application. <i>Journal of Materials Chemistry C</i> , 2022, 10, 9636-9643.	5.5	21
6	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
7	Mn ²⁺ -Doped Metal Halide Perovskites: Structure, Photoluminescence, and Application. <i>Laser and Photonics Reviews</i> , 2021, 15, .	8.7	167
8	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
9	Distorted octahedral site occupation-induced high-efficiency broadband near-infrared emission in LiScGe ₂ O ₆ :Cr ³⁺ phosphor. <i>Journal of Materials Chemistry C</i> , 2021, 9, 13640-13646.	5.5	38
10	Glass crystallization making red phosphor for high-power warm white lighting. <i>Light: Science and Applications</i> , 2021, 10, 56.	16.6	104
11	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
12	Ultra-Broad-Band-Excitable Cu(I)-Based Organometallic Halide with Near-Unity Emission for Light-Emitting Diode Applications. <i>Chemistry of Materials</i> , 2021, 33, 4382-4389.	6.7	79
13	Fabrication of a Wide Color Gamut pc-WLED Surpassing 107% NTSC Based on a Robust Luminescent Uranyl Phosphate. <i>Chemistry of Materials</i> , 2021, 33, 6329-6337.	6.7	9
14	Sb ³⁺ -Doping in Cesium Zinc Halides Single Crystals Enabling High-Efficiency Near-Infrared Emission. <i>Advanced Functional Materials</i> , 2021, 31, 2105316.	14.9	199
15	Cr ³⁺ -Doped Sc-Based Fluoride Enabling Highly Efficient Near Infrared Luminescence: A Case Study of K ₂ NaScF ₆ :Cr ³⁺ . <i>Laser and Photonics Reviews</i> , 2021, 15, 2000410.	8.7	140
16	Luminescence Enhancement of Mn ⁴⁺ -Activated Fluorides via a Heterovalent Co-Doping Strategy for Monochromatic Multiplexing. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 51255-51265.	8.0	18
17	Isolated-Mn ²⁺ -like Luminescent Behavior in CsMnF ₃ Caused by Competing Magnetic Interactions at Cryogenic Temperature. <i>Journal of Physical Chemistry C</i> , 2021, 125, 27800-27809.	3.1	5
18	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

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19	Heavy Mn ²⁺ -doped near-infrared photon upconversion luminescence in fluoride RbZnF ₃ :Yb ³⁺ , Mn ²⁺ guided by dopant distribution simulation. Journal of Materials Chemistry C, 2020, 8, 12164-12172.	5.5	14
20	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
21	Highly flexible dual-mode anti-counterfeiting designs based on tunable multi-band emissions and afterglow from chromium-doped aluminates. Journal of Materials Chemistry C, 2020, 8, 16533-16541.	5.5	33
22	A Guanidinium-Based Mn ⁴⁺ -Doped Red-Emitting Hybrid Phosphor with High Stability. ACS Applied Electronic Materials, 2020, 2, 4134-4145.	4.3	24
23	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
24	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
25	Photon upconversion afterglow materials toward visualized information coding/decoding. Journal of Materials Chemistry C, 2020, 8, 3678-3687.	5.5	14
26	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
27	Introducing Uranium as the Activator toward Highly Stable Narrow-Band Green Emitters with Near-Unity Quantum Efficiency. Chemistry of Materials, 2019, 31, 9684-9690.	6.7	22
28	Heavy Mn ²⁺ Doped MgAl ₂ O ₄ Phosphor for High-Efficient Near-Infrared Light-Emitting Diode and the Night-Vision Application. Advanced Optical Materials, 2019, 7, 1901105.	7.3	167
29	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
30	Photoluminescence and phosphorescence of Mn ²⁺ ion activated green phosphor Na ₂ ZnSiO ₄ :Mn ²⁺ synthesized by self-reduction. Materials Research Bulletin, 2019, 113, 90-96.	5.2	31
31	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
32	Color tunable upconversion luminescent perovskite fluoride with long-/short-lived emissions toward multiple anti-counterfeiting. Journal of Materials Chemistry C, 2019, 7, 8226-8235.	5.5	42
33	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
34	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
35	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
36	Non-stoichiometric defect-controlled reduction toward mixed-valence Mn-doped hexaaluminates and their optical applications. Journal of Materials Chemistry C, 2019, 7, 5716-5723.	5.5	29

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37	An efficient synthetic strategy for uniform perovskite core-shell nanocubes NaMgF ₃ :Mn ²⁺ ,Yb ³⁺ @NaMgF ₃ :Yb ³⁺ with enhanced near infrared upconversion luminescence. Journal of Materials Chemistry C, 2018, 6, 2342-2350.	5.5	6
38	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
39	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
40	Highly Efficient and Thermally Stable K ₃ AlF ₆ :Mn ⁴⁺ as a Red Phosphor for Ultra-High-Performance Warm White Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2017, 9, 8805-8812.	8.0	245
41	Anomalous spontaneous-reduction of Mn ⁷⁺ /Mn ⁴⁺ to Mn ²⁺ and luminescence properties in Zn ₂ GeO ₄ :Mn. Journal of Materials Chemistry C, 2017, 5, 3343-3351.	5.5	55
42	The design and preparation of the thermally stable, Mn ⁴⁺ ion activated, narrow band, red emitting fluoride Na ₃ GaF ₆ :Mn ⁴⁺ for warm WLED applications. Journal of Materials Chemistry C, 2017, 5, 2910-2918.	5.5	138
43	Wavelength-tunability and Multiband Emission from Single-Site Mn ²⁺ Doped CaO Through Antiferromagnetic Coupling and Tailored Superexchange Reactions. Advanced Optical Materials, 2017, 5, 1700070.	7.3	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	Tunable multiple emissions in manganese-concentrated sulfide through simultaneous tailoring of Mn-site coordination and Mn-Mn pair geometry. Journal of Applied Physics, 2017, 122, .	2.5	9
47	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
48	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
49	Room-temperature Wavelength-tunable Single-Band Upconversion Luminescence from Yb ³⁺ /Mn ²⁺ Codoped Fluoride Perovskites ABF ₃ . Advanced Optical Materials, 2016, 4, 798-806.	7.3	55
50	Exchange coupled Mn-Mn pair: An approach for super-broadband 1380-nm emission in \pm -MnS. Applied Physics Letters, 2016, 109, .	3.3	15
51	Room-temperature synthesis and warm-white LED applications of Mn ⁴⁺ ion doped fluoroaluminate red phosphor Na ₃ AlF ₆ :Mn ⁴⁺ . Journal of Materials Chemistry C, 2016, 4, 2480-2487.	5.5	129
52	Red phosphor Li ₂ Mg ₂ (WO ₄) ₃ :Eu ³⁺ with lyonsite structure for near ultraviolet light-emitting diodes. Displays, 2016, 43, 18-22.	3.7	10
53	Room-temperature green to orange color-tunable upconversion luminescence from Yb ³⁺ /Mn ²⁺ co-doped CaO. Journal of Materials Chemistry C, 2016, 4, 10154-10160.	5.5	22
54	Upconversion: Room-temperature Wavelength-tunable Single-Band Upconversion Luminescence from Yb ³⁺ /Mn ²⁺ Codoped Fluoride Perovskites ABF ₃ (Advanced Optical) Tj ETQqB0 0 rgB0 /Overlock	7.3	55

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55	Tailoring the upconversion of $\text{ABF}_3\text{:Yb}^{3+}/\text{Er}^{3+}$ through Mn^{2+} doping. <i>Journal of Materials Chemistry C</i> , 2016, 4, 9598-9607.	5.5	22
56	$\text{K}(\text{Mn,Zn})\text{F}_3$ mesoporous microspheres: one-pot synthesis via the nanoscale Kirkendall effect. <i>CrystEngComm</i> , 2016, 18, 1384-1392.	2.6	2
57	Single-band red upconversion luminescence of $\text{Yb}^{3+}\text{Er}^{3+}$ via nonequivalent substitution in perovskite KMgF_3 nanocrystals. <i>Journal of Materials Chemistry C</i> , 2016, 4, 1675-1684.	5.5	58
58	Mesoporous nanoparticles $\text{Gd}_2\text{O}_3@ \text{mSiO}_2/\text{ZnGa}_2\text{O}_4\text{:Cr}^{3+}, \text{Bi}^{3+}$ as multifunctional probes for bioimaging. <i>Journal of Materials Chemistry B</i> , 2016, 4, 1842-1852.		
59	Adjustable valence states of europium in CaAlBO_4 phosphor by means of enlarging the activator site and its luminescent properties. <i>CrystEngComm</i> , 2016, 18, 2679-2689.	2.6	5
60	Tailored Near-Infrared Photoemission in Fluoride Perovskites through Activator Aggregation and Super-Exchange between Divalent Manganese Ions. <i>Advanced Science</i> , 2015, 2, 1500089.	11.2	86
61	Multifunctionalities of near-infrared upconversion luminescence, optical temperature sensing and long persistent luminescence in $\text{La}_3\text{Ga}_5\text{GeO}_{14}\text{:Cr}^{3+}, \text{Yb}^{3+}, \text{Er}^{3+}$ and their potential coupling. <i>RSC Advances</i> , 2015, 5, 49680-49687.	3.6	39
62	Regulation of red to near-infrared emission in Mn^{2+} single doped magnesium zinc phosphate solid-solution phosphors by modification of the crystal field. <i>Journal of Materials Chemistry C</i> , 2015, 3, 12443-12449.	5.5	22
63	Tunable white upconversion luminescence from $\text{Yb}^{3+}\text{-Tm}^{3+}\text{-Mn}^{2+}$ tri-doped perovskite nanocrystals. <i>Optical Materials Express</i> , 2014, 4, 1186.	3.0	33
64	Anomalous NIR Luminescence in Mn^{2+} -Doped Fluoride Perovskite Nanocrystals. <i>Advanced Optical Materials</i> , 2014, 2, 670-678.	7.3	80
65	Luminescence properties and dynamical processes of energy transfer in $\text{BiPO}_4\text{:Tb}^{3+}, \text{Eu}^{3+}$ phosphor. <i>Journal of Luminescence</i> , 2014, 154, 204-210.	3.1	32
66	Anomalous tunable visible to near infrared emission in the Mn^{2+} -doped spinel MgGa_2O_4 and room-temperature upconversion in the Mn^{2+} and Yb^{3+} -codoped spinel. <i>Journal of Materials Chemistry C</i> , 2014, 2, 8811-8816.	5.5	39
67	Broadband Cr^{3+} -sensitized upconversion luminescence in $\text{La}_3\text{Ga}_5\text{GeO}_{14}\text{:Cr}^{3+}, \text{Yb}^{3+}, \text{Er}^{3+}$. <i>Optical Materials Express</i> , 2014, 4, 638.	3.0	41
68	A yellow-emitting phosphor of Mn^{2+} -doped $\text{Na}_2\text{CaP}_2\text{O}_7$. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 122, 343-347.	3.9	24
69	High Efficiency Mn^{4+} -Doped $\text{Sr}_2\text{MgAl}_{22}\text{O}_{36}$ Red Emitting Phosphor for White LED. <i>ECS Journal of Solid State Science and Technology</i> , 2012, 1, R123-R126.	1.8	87
70	Photoluminescence characterization and energy transfer of $\text{NaBa}_1\text{PO}_4\text{:xCe}^{3+}, \text{yTb}^{3+}$ phosphors. <i>Journal of Rare Earths</i> , 2012, 30, 739-743.	4.8	14
71	Nonradiative energy transfer from Mn^{2+} to Eu^{3+} in $\text{K}_2\text{CaP}_2\text{O}_7\text{:Mn}^{2+}, \text{Eu}^{3+}$ phosphor. <i>Journal of Luminescence</i> , 2012, 132, 1462-1467.	3.1	25
72	White light emitting from single phased $\text{K}_2\text{Ca}_1\text{P}_2\text{O}_7\text{:xEu}^{2+}, \text{yMn}^{2+}$ phosphors under UV excitation. <i>Current Applied Physics</i> , 2011, 11, 1374-1378.	2.4	22

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73	Luminescence properties of red phosphors $\text{Ca}_{10}\text{Li}(\text{PO}_4)_7:\text{Eu}^{3+}$. Journal of Rare Earths, 2011, 29, 440-443.	4.8	44
74	Fluorescence emission spectrum and energy transfer in Eu and Mn co-doped $\text{Ba}_2\text{Ca}(\text{BO}_3)_2$ phosphors. Journal of Luminescence, 2010, 130, 2495-2499.	3.1	25