

Zheng-Liang Wang

List of Publications by Year in descending order

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papers

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304368

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all docs

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docs citations

58
times ranked

1366
citing authors

#	ARTICLE	IF	CITATIONS
1	Mn ⁴⁺ non-equivalent doped fluoride phosphors with a short fluorescence decay time for backlighting. Dalton Transactions, 2022, 51, 2512-2516.	1.6	17
2	Naphthyl-modified graphitic carbon nitride: Preparation and application in light-emitting diodes. Journal of Luminescence, 2022, 244, 118734.	1.5	7
3	Structural evolution of organic-inorganic hybrid crystals for high colour-rendering white LEDs. Chemical Communications, 2022, 58, 4596-4598.	2.2	10
4	A red-emitting phosphor K ₅ In ₃ F ₁₄ :Mn ⁴⁺ and its potential application in the backlighting. Optical Materials, 2022, 126, 112223.	1.7	3
5	A near-infrared phosphor doped with Cr ³⁺ towards zero-thermal-quenching for high-power LEDs. Materials Today Chemistry, 2022, 24, 100839.	1.7	9
6	A strong zero phonon line of Mn ⁴⁺ in a red-emitting phosphor BaGa ₅ :Mn ⁴⁺ . Journal of Luminescence, 2022, 247, 118881.	1.5	6
7	Synthesis and optical properties of a new double-perovskite Rb ₂ KInF ₆ :Mn ⁴⁺ red phosphor used for blue LED pumped white lighting. Optical Materials, 2022, 127, 112307.	1.7	6
8	Structure and luminescence behaviour of a novel red-emitting fluoroperovskite for display backlight application. Dalton Transactions, 2021, 50, 11221-11227.	1.6	5
9	Synthesis and photoelectric properties of Ir ^{III} complexes using fluorobenzylimidazole[2,1- <i>b</i>]thiazole derivatives as primary ligands. New Journal of Chemistry, 2021, 45, 18796-18804.	1.4	4
10	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.	0.9	1
11	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.	2.8	20
12	A red phosphor Cs ₂ KCrF ₆ :Mn ⁴⁺ with high thermal quenching temperature for lighting. Materials Research Bulletin, 2021, 144, 111502.	2.7	9
13	Ultraintense Zero-Phonon Line from a Mn ⁴⁺ Red-Emitting Phosphor for High-Quality Backlight Display Applications. Inorganic Chemistry, 2021, 60, 19197-19205.	1.9	12
14	Single-Crystal Red Phosphors: Enhanced Optical Efficiency and Improved Chemical Stability for wLEDs. Advanced Optical Materials, 2020, 8, 1901512.	3.6	36
15	Luminescence properties of Mn ⁴⁺ with high ² E _g level energy in the polyfluoride Na ₃ Li ₃ Sc ₂ F ₁₂ . Dalton Transactions, 2020, 49, 11613-11617.	1.6	4
16	A novel reddish-orange-emitting cationic iridium(III) complex containing a carbazole-triazine bipolar unit: Synthesis and application in neutral/warm white light-emitting diodes. Optical Materials, 2020, 110, 110382.	1.7	7
17	Synthesis, structure and photoluminescence properties of a novel Rb ₂ NaAlF ₆ :Mn ⁴⁺ red phosphor for solid-state lighting. Journal of Luminescence, 2020, 226, 117491.	1.5	9
18	Efficient and stable Sr ₃ Eu ₂ B ₄ O ₁₂ red phosphor benefiting from low symmetry and distorted local environment. Dalton Transactions, 2020, 49, 3260-3271.	1.6	36

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19	The Non-Concentration-Quenching Phosphor $\text{Ca}_3\text{Eu}_2\text{B}_4\text{O}_{12}$ for WLED Application. <i>Inorganic Chemistry</i> , 2020, 59, 3894-3904.	1.9	118
20	Communication "Highly Efficient Red-Emitting Phosphor $\text{Na}_2\text{SiF}_6:\text{Mn}^{4+}$ Prepared in H_3PO_4 Environment. <i>ECS Journal of Solid State Science and Technology</i> , 2020, 9, 026004.	0.9	7
21	Double sites occupancy of Mn^{4+} in $\text{Cs}_2\text{NaAlF}_6$ with enhanced photoluminescence for white light-emitting diodes. <i>Journal of Alloys and Compounds</i> , 2020, 832, 154884.	2.8	21
22	Communication "Luminescence Properties of a Novel $\text{Rb}_2\text{KCaF}_6:\text{Mn}^{4+}$ Red-Emitting Phosphor for Solid-State Lighting. <i>ECS Journal of Solid State Science and Technology</i> , 2020, 9, 126001.	0.9	1
23	Electronic and optical properties of a novel fluoroaluminate red phosphor $\text{Cs}_2\text{NaAl}_3\text{F}_{12}:\text{Mn}^{4+}$ with high color purity for white light-emitting diodes. <i>Dalton Transactions</i> , 2019, 48, 12459-12465.	1.6	29
24	A facile method to synthesize red phosphor $\text{K}_2\text{TlF}_6:\text{Mn}^{4+}$ with high luminescence efficiency. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 19030-19034.	1.1	0
25	From Nonluminescence to Bright Blue Emission: Boron-Induced Highly Efficient Ce^{3+} -Doped Hydroxyapatite Phosphor. <i>Inorganic Chemistry</i> , 2019, 58, 13481-13491.	1.9	27
26	Dopant preferential site occupation and high efficiency white emission in $\text{K}_2\text{BaCa}(\text{PO}_4)_2:\text{Eu}^{2+}, \text{Mn}^{2+}$ phosphors for high quality white LED applications. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 1289-1298.	3.0	65
27	Synthesis and properties of a series of iridium complexes with imidazo[2,1-b]thiazole derivatives as primary ligands. <i>New Journal of Chemistry</i> , 2019, 43, 5849-5856.	1.4	6
28	A Novel Polymethyl Methacrylate Derivative Grafted with Cationic Iridium(III) Complex Units: Synthesis and Application in White Light-Emitting Diodes. <i>Polymers</i> , 2019, 11, 499.	2.0	5
29	Red Phosphor $\text{Rb}_2\text{NbOF}_5:\text{Mn}^{4+}$ for Warm White Light-Emitting Diodes with a High Color-Rendering Index. <i>Inorganic Chemistry</i> , 2019, 58, 456-461.	1.9	60
30	Communication "Luminescent Properties of Mn^{4+} -Activated K_3Hf_7 Red Phosphor. <i>ECS Journal of Solid State Science and Technology</i> , 2018, 7, R39-R41.	0.9	4
31	Mn^{2+} and Mn^{4+} red phosphors: synthesis, luminescence and applications in WLEDs. A review. <i>Journal of Materials Chemistry C</i> , 2018, 6, 2652-2671.	2.7	511
32	Co-precipitation synthesis and photoluminescence properties of $\text{BaTiF}_6:\text{Mn}^{4+}$: an efficient red phosphor for warm white LEDs. <i>Journal of Materials Chemistry C</i> , 2018, 6, 127-133.	2.7	60
33	Application of an orange "yellow emitting cationic iridium(III) complex in GaN-based warm white light-emitting diodes. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 1554-1561.	1.1	7
34	Improving Quantum Efficiency and Thermal Stability in Blue-Emitting $\text{Ba}_2\text{SrSiO}_4:\text{Ce}^{3+}$ Phosphor via Solid Solution. <i>Chemistry of Materials</i> , 2018, 30, 5137-5147.	3.2	194
35	Communication "Synthesis and Luminescent Properties of Red-Emitting Phosphor $\text{BaNbF}_5.5(\text{OH})_{1.5}:\text{Mn}^{4+}$. <i>ECS Journal of Solid State Science and Technology</i> , 2017, 6, R139-R141.	0.9	6
36	Composition Screening in Blue-Emitting $\text{Li}_4\text{Sr}_1\text{Ca}_{0.97}(\text{SiO}_4)_2:\text{Ce}^{3+}$ Phosphors for High Quantum Efficiency and Thermally Stable Photoluminescence. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 30746-30754.	4.0	110

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37	Luminescent properties and application of Rb ₂ CeF ₆ :Mn ⁴⁺ red phosphor. <i>Materials Letters</i> , 2017, 207, 206-208.	1.3	13
38	Luminescent properties of novel red-emitting phosphor Na ₃ TaF ₈ with non-equivalent doping of Mn ⁴⁺ for LED backlighting. <i>Journal of Luminescence</i> , 2017, 192, 690-694.	1.5	33
39	Mn ⁴⁺ -doped fluorotitanate phosphors: synthesis, optical properties and application in LED devices. <i>RSC Advances</i> , 2017, 7, 32094-32099.	1.7	19
40	Novel red-emitting phosphors A ₂ HfF ₆ :Mn ⁴⁺ (A = Rb ⁺), Tj ETQq _{0,0} rgBT ₄₅ /Overlock	1.6	45
41	Warm White Light-Emitting Diodes Based on a Novel Orange Cationic Iridium(III) Complex. <i>Materials</i> , 2017, 10, 657.	1.3	10
42	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.	2.7	62
43	Luminescence behaviour of Mn ⁴⁺ ions in seven coordination environments of K ₃ ZrF ₇ . <i>Dalton Transactions</i> , 2016, 45, 9654-9660.	1.6	55
44	Luminescent properties of the white long afterglow phosphors: Sr ₃ Al ₂ O ₅ Cl ₂ : Eu ²⁺ , Dy ³⁺ . <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 13093-13098.	1.1	15
45	A highly-efficient blue-light excitable red phosphor: intramolecular π -stacking interactions in one dinuclear europium(III) complex. <i>Dalton Transactions</i> , 2016, 45, 2839-2844.	1.6	15
46	Luminescent properties of Ca ₃ SiO ₄ Cl ₂ doped with Ce ³⁺ and Eu ²⁺ for near-ultraviolet light-emitting diodes. <i>Luminescence</i> , 2015, 30, 1409-1412.	1.5	6
47	The Photoluminescent Properties of New Cationic Iridium(III) Complexes Using Different Anions and Their Applications in White Light-Emitting Diodes. <i>Materials</i> , 2015, 8, 6105-6116.	1.3	16
48	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.	2.7	144
49	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.	1.7	76
50	A new cationic iridium(III) complex applied as the luminescence conversion material in InGaN-based light-emitting diodes. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 2824-2829.	1.1	5
51	Fabrication and application of non-rare earth red phosphors for warm white-light-emitting diodes. <i>RSC Advances</i> , 2015, 5, 84821-84826.	1.7	34
52	Highly efficient red phosphor Cs ₂ GeF ₆ :Mn ⁴⁺ for warm white light-emitting diodes. <i>RSC Advances</i> , 2015, 5, 82409-82414.	1.7	55
53	Application of a novel cationic iridium(III) complex as a red phosphor in warm white light-emitting diodes. <i>New Journal of Chemistry</i> , 2015, 39, 9535-9542.	1.4	25
54	Synthesis of K ₂ XF 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.	1.7	51

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55	A new and efficient red phosphor for solid-state lighting: $\text{Cs}_2\text{TiF}_6:\text{Mn}^{4+}$. <i>Journal of Materials Chemistry C</i> , 2015, 3, 9615-9619.	2.7	94
56	Luminescent properties and energy transfer in the green phosphors $\text{LaBSiO}_5:\text{Tb}^{3+},\text{Ce}^{3+}$. <i>Luminescence</i> , 2015, 30, 719-722.	1.5	2
57	Novel red phosphor of $\text{Eu}^{3+}, \text{Bi}^{3+}$ coactivated double tungstates. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009, 206, 1589-1593.	0.8	15