

Zheng-Liang Wang

List of Publications by Year in descending order

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57
papers

2,222
citations

304368

22
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214527

47
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docs citations

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times ranked

1366
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Improving Quantum Efficiency and Thermal Stability in Blue-Emitting Ba ₂ X ₂ SrSiO ₄ :Ce ³⁺ Phosphor via Solid Solution. <i>Chemistry of Materials</i> , 2018, 30, 5137-5147.	3.2	194
3	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
4	The Non-Concentration-Quenching Phosphor Ca ₃ Eu ₂ B ₄ O ₁₂ for WLED Application. <i>Inorganic Chemistry</i> , 2020, 59, 3894-3904.	1.9	118
5	Composition Screening in Blue-Emitting Li ₄ Sr _{1+x} Ca _{0.97-x} (SiO ₄) ₂ :Ce ³⁺ Phosphors for High Quantum Efficiency and Thermally Stable Photoluminescence. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 30746-30754.	4.0	110
6	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.	2.7	94
7	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
8	Dopant preferential site occupation and high efficiency white emission in K ₂ BaCa(PO ₄) ₂ :Eu ²⁺ , Mn ²⁺ phosphors for high quality white LED applications. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 1289-1298.	3.0	65
9	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
10	Co-precipitation synthesis and photoluminescence properties of BaTiF ₆ :Mn ⁴⁺ : an efficient red phosphor for warm white LEDs. <i>Journal of Materials Chemistry C</i> , 2018, 6, 127-133.	2.7	60
11	Red Phosphor Rb ₂ NbOF ₅ :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
12	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
13	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
14	Synthesis of K ₂ X ₂ F 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
15	Novel red-emitting phosphors A ₂ HfF ₆ :Mn ⁴⁺ (A = Rb ⁺), Tj ETQq _{1.6} 1.0784314 rgBT (0.45)	1.6	45
16	Single-Crystal Red Phosphors: Enhanced Optical Efficiency and Improved Chemical Stability for WLEDs. <i>Advanced Optical Materials</i> , 2020, 8, 1901512.	3.6	36
17	Efficient and stable Sr ₃ Eu ₂ B ₄ O ₁₂ red phosphor benefiting from low symmetry and distorted local environment. <i>Dalton Transactions</i> , 2020, 49, 3260-3271.	1.6	36
18	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

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19	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
20	Electronic and optical properties of a novel fluoroaluminate red phosphor Cs ₂ NaAl ₃ F ₁₂ :Mn ⁴⁺ with high color purity for white light-emitting diodes. <i>Dalton Transactions</i> , 2019, 48, 12459-12465.	1.6	29
21	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
22	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
23	Double sites occupancy of Mn ⁴⁺ in Cs ₂ NaAlF ₆ with enhanced photoluminescence for white light-emitting diodes. <i>Journal of Alloys and Compounds</i> , 2020, 832, 154884.	2.8	21
24	Local structure and luminescent properties of Cs ₂ KGaF ₆ :Mn ⁴⁺ phosphor for backlight white LEDs. <i>Journal of Alloys and Compounds</i> , 2021, 881, 160624.	2.8	20
25	Mn ⁴⁺ -doped fluorotitanate phosphors: synthesis, optical properties and application in LED devices. <i>RSC Advances</i> , 2017, 7, 32094-32099.	1.7	19
26	Mn ⁴⁺ non-equivalent doped fluoride phosphors with a short fluorescence decay time for backlighting. <i>Dalton Transactions</i> , 2022, 51, 2512-2516.	1.6	17
27	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
28	Novel red phosphor of Eu ³⁺ , Bi ³⁺ coactivated double tungstates. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009, 206, 1589-1593.	0.8	15
29	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
30	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
31	Luminescent properties and application of Rb ₂ GeF ₆ :Mn ⁴⁺ red phosphor. <i>Materials Letters</i> , 2017, 207, 206-208.	1.3	13
32	Ultraintense Zero-Phonon Line from a Mn ⁴⁺ Red-Emitting Phosphor for High-Quality Backlight Display Applications. <i>Inorganic Chemistry</i> , 2021, 60, 19197-19205.	1.9	12
33	Warm White Light-Emitting Diodes Based on a Novel Orange Cationic Iridium(III) Complex. <i>Materials</i> , 2017, 10, 657.	1.3	10
34	Structural evolution of organic-inorganic hybrid crystals for high colour-rendering white LEDs. <i>Chemical Communications</i> , 2022, 58, 4596-4598.	2.2	10
35	Synthesis, structure and photoluminescence properties of a novel Rb ₂ NaAlF ₆ :Mn ⁴⁺ red phosphor for solid-state lighting. <i>Journal of Luminescence</i> , 2020, 226, 117491.	1.5	9
36	A red phosphor Cs ₂ KCrF ₆ :Mn ⁴⁺ with high thermal quenching temperature for lighting. <i>Materials Research Bulletin</i> , 2021, 144, 111502.	2.7	9

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37	A near-infrared phosphor doped with Cr ³⁺ towards zero-thermal-quenching for high-power LEDs. <i>Materials Today Chemistry</i> , 2022, 24, 100839.	1.7	9
38	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
39	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. <i>Optical Materials</i> , 2020, 110, 110382.	1.7	7
40	Communication Highly Efficient Red-Emitting Phosphor Na ₂ SiF ₆ :Mn ⁴⁺ Prepared in H ₃ PO ₄ Environment. <i>ECS Journal of Solid State Science and Technology</i> , 2020, 9, 026004.	0.9	7
41	Naphthyl-modified graphitic carbon nitride: Preparation and application in light-emitting diodes. <i>Journal of Luminescence</i> , 2022, 244, 118734.	1.5	7
42	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
43	Communication Synthesis and Luminescent Properties of Red-Emitting Phosphor BaNbF ₅ (OH)1.5:Mn ⁴⁺ . <i>ECS Journal of Solid State Science and Technology</i> , 2017, 6, R139-R141.	0.9	6
44	Synthesis and properties of a series of iridium complexes with imidazolo[2,1-b]thiazole derivatives as primary ligands. <i>New Journal of Chemistry</i> , 2019, 43, 5849-5856.	1.4	6
45	A strong zero phonon line of Mn ⁴⁺ in a red-emitting phosphor BaGaF ₅ :Mn ⁴⁺ . <i>Journal of Luminescence</i> , 2022, 247, 118881.	1.5	6
46	Synthesis and optical properties of a new double-perovskite Rb ₂ KInF ₆ :Mn ⁴⁺ red phosphor used for blue LED pumped white lighting. <i>Optical Materials</i> , 2022, 127, 112307.	1.7	6
47	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
48	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
49	Structure and luminescence behaviour of a novel red-emitting fluoroperovskite for display backlight application. <i>Dalton Transactions</i> , 2021, 50, 11221-11227.	1.6	5
50	Communication Luminescent Properties of Mn ⁴⁺ -Activated K ₃ HfF ₇ Red Phosphor. <i>ECS Journal of Solid State Science and Technology</i> , 2018, 7, R39-R41.	0.9	4
51	Luminescence properties of Mn ⁴⁺ with high ² E _g level energy in the polyfluoride Na ₃ Li ₃ Sc ₂ F ₁₂ . <i>Dalton Transactions</i> , 2020, 49, 11613-11617.	1.6	4
52	Synthesis and photoelectric properties of Ir ^{III} complexes using fluorobenzylimidazole[2,1-b]thiazole derivatives as primary ligands. <i>New Journal of Chemistry</i> , 2021, 45, 18796-18804.	1.4	4
53	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.	1.7	3
54	Luminescent properties and energy transfer in the green phosphors LaBSiO ₅ :Tb ³⁺ , Ce ³⁺ . <i>Luminescence</i> , 2015, 30, 719-722.	1.5	2

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55	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
56	Communication—Luminescence Properties of a Novel Rb ₂ KGaF ₆ :Mn ⁴⁺ Red-Emitting Phosphor for Solid-State Lighting. ECS Journal of Solid State Science and Technology, 2020, 9, 126001.	0.9	1
57	A facile method to synthesize red phosphor K ₂ TiF ₆ :Mn ⁴⁺ with high luminescence efficiency. Journal of Materials Science: Materials in Electronics, 2019, 30, 19030-19034.	1.1	0