

Zhi-wei Zhang

List of Publications by Year in descending order

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72
papers

1,298
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304743

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all docs

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docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Synthesis and photoluminescence properties of novel Ca ₂ LaSbO ₆ :Mn ⁴⁺ double perovskite phosphor for plant growth LEDs. <i>Ceramics International</i> , 2019, 45, 4739-4746.	4.8	81
2	Highly efficient and thermally stable of a novel red phosphor Sr ₃ NaSbO ₆ :Mn ⁴⁺ for indoor plant growth. <i>Journal of Luminescence</i> , 2019, 208, 201-207.	3.1	63
3	Synthesis and luminescence properties of novel LiSr ₄ (BO ₃) ₃ :Dy ³⁺ phosphors. <i>Ceramics International</i> , 2013, 39, 1723-1728.	4.8	53
4	Enhanced novel orange red emission in Ca ₃ (PO ₄) ₂ :Sm ³⁺ by charge compensation. <i>Optics and Laser Technology</i> , 2014, 62, 63-68.	4.6	50
5	Preparation and investigation of CaZr ₄ (PO ₄) ₆ :Dy ³⁺ single-phase full-color phosphor. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 137, 1-6.	3.9	50
6	High-efficiency and thermally stable far-red emission of Mn ⁴⁺ in double cubic perovskite Sr ₉ Y ₂ W ₄ O ₂₄ for plant cultivation. <i>Journal of Luminescence</i> , 2019, 208, 307-312.	3.1	47
7	A novel red-emitting phosphor Ca ₉ Bi(PO ₄) ₇ :Eu ³⁺ for near ultraviolet white light-emitting diodes. <i>Current Applied Physics</i> , 2015, 15, 248-252.	2.4	43
8	Tunable luminescence and energy transfer properties of LiSrPO ₄ : Ce ³⁺ , Tb ³⁺ , Mn ²⁺ phosphors. <i>Journal of Alloys and Compounds</i> , 2016, 682, 557-564.	5.5	41
9	Synthesis and characterizations of novel Ba ₂ La ₈ (SiO ₄) ₆ O ₂ :Eu ³⁺ oxyapatite phosphors. <i>Dyes and Pigments</i> , 2017, 142, 272-276.	3.7	38
10	High-brightness Eu ³⁺ -doped Ca ₉ Gd(PO ₄) ₇ red phosphor for NUV light-emitting diodes application. <i>Materials Letters</i> , 2016, 167, 250-253.	2.6	35
11	Synthesis and photoluminescence properties of novel Sr ₃ LiSbO ₆ :Mn ⁴⁺ red phosphor for indoor plant growth. <i>Optical Materials</i> , 2019, 89, 609-614.	3.6	35
12	Highly efficient and thermally stable CaYMgSbO ₆ :Mn ⁴⁺ double perovskite red phosphor for indoor plant growth. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 3107-3113.	2.2	35
13	A novel white emission in Ba ₁₀ F ₂ (PO ₄) ₆ :Dy ³⁺ single-phase full-color phosphor. <i>Materials Chemistry and Physics</i> , 2015, 151, 345-350.	4.0	33
14	Luminescent properties of Zn ²⁺ -doped CaAl ₁₂ O ₁₉ :Mn ⁴⁺ deep-red phosphor for indoor plant cultivation. <i>Ceramics International</i> , 2019, 45, 8265-8270.	4.8	32
15	Sr ₂ LaSbO ₆ :Mn ⁴⁺ far-red phosphor for plant cultivation: Synthesis, luminescence properties and emission enhancement by Al ³⁺ ions. <i>Journal of Luminescence</i> , 2020, 221, 117091.	3.1	30
16	Enhanced novel orange red emission in LiSr ₄ ~x(BO ₃) ₃ :xSm ³⁺ by K+. <i>Journal of Materials Science</i> , 2014, 49, 2534-2541.	3.7	29
17	Enhanced novel white emission in Ca ₃ (PO ₄) ₂ :Dy ³⁺ single-phase full-color phosphor by charge compensation. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 1923-1931.	2.2	29
18	Effects of Ti ⁴⁺ - and W ⁶⁺ -substitution on photoluminescence properties of Sr ₂ GdSbO ₆ :Mn ⁴⁺ phosphor for plant cultivation. <i>Journal of Alloys and Compounds</i> , 2020, 829, 154475.	5.5	27

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19	Far red-emitting double perovskite phosphors $\text{Ca}_2(1-x)\text{Sr}_2x\text{GdSbO}_6:\text{Mn}^{4+}$: Luminescence improvement based on composition modulation. <i>Ceramics International</i> , 2020, 46, 11379-11389.	4.8	25
20	Generation of bright white-light by energy-transfer strategy in $\text{Ca}_{19}\text{Zn}_2(\text{PO}_4)_{14}:\text{Ce}^{3+}, \text{Tb}^{3+}, \text{Mn}^{2+}$ phosphors. <i>Journal of Luminescence</i> , 2019, 206, 244-249.	3.1	24
21	A novel Mn^{4+} -activated garnet-type $\text{Li}_5\text{La}_3\text{Nb}_2\text{O}_{12}$ far red-emitting phosphor with high thermal stability for plant cultivation. <i>Journal of Luminescence</i> , 2020, 219, 116888.	3.1	23
22	A new strategy to the phosphors for plant growth LEDs: Far red emission from the $\text{Ca}_9\text{MYO}_6.667(\text{PO}_4)_7$ ($\text{M} = \text{Li}, \text{Na}$): Eu^{3+} phosphors due to the $\text{Eu}^{3+}: 5\text{D}_0 \rightarrow 7\text{F}_4$ transition. <i>Journal of Luminescence</i> , 2020, 225, 117404.	3.1	22
23	Synthesis and luminescent properties of a novel deep-red phosphor $\text{Sr}_2\text{GdNbO}_6:\text{Mn}^{4+}$ for indoor plant growth lighting. <i>Journal of Luminescence</i> , 2020, 220, 116968.	3.1	21
24	A novel Al^{3+} modified $\text{Li}_6\text{CaLa}_2\text{Sb}_2\text{O}_{12}:\text{Mn}^{4+}$ far-red-emitting phosphor with garnet structure for plant cultivation. <i>Journal of Luminescence</i> , 2020, 221, 117031.	3.1	21
25	Effects of Al^{3+} -substitution on photoluminescence properties of $\text{Sr}_2\text{YNbO}_6:\text{Mn}^{4+}$ far-red phosphor for plant cultivation. <i>Journal of Luminescence</i> , 2020, 218, 116828.	3.1	19
26	Influence of Al^{3+} ions on the enhancement of the fluorescence in the $\text{CaMoO}_4:\text{Sm}^{3+}$ phosphor. <i>Optics and Laser Technology</i> , 2014, 56, 348-353.	4.6	18
27	High-brightness Sm^{3+} -doped $\text{La}_{0.67}\text{Mg}_{0.5}\text{W}_{0.5}\text{O}_3$ red phosphor for NUV light-emitting diodes application. <i>Journal of Alloys and Compounds</i> , 2016, 654, 146-150.	5.5	18
28	Tunable luminescence and energy transfer properties of $\text{Ca}_{19}\text{Mg}_2(\text{PO}_4)_{14}:\text{Ce}^{3+}, \text{Tb}^{3+}, \text{Mn}^{2+}$ phosphors. <i>Journal of Alloys and Compounds</i> , 2017, 708, 671-677.	5.5	18
29	Luminescence properties of a novel promising red phosphor $\text{Li}_9(\text{SiO}_4)_6\text{O}_2:\text{Eu}^{3+}$. <i>Materials Letters</i> , 2017, 204, 101-103.	2.6	17
30	Photoluminescence properties of a novel red emitting $\text{Sr}_7\text{Zr}(\text{PO}_4)_6:\text{Eu}^{3+}$ phosphor. <i>Optical Materials</i> , 2014, 37, 866-869.	3.6	16
31	Preparation and investigation of $\text{Ca}_{2.96}(\text{P}_{0.99}\text{B}_{0.01}\text{O}_4)_2:0.04\text{Dy}^{3+}$ single-phase full-color phosphor. <i>Materials Letters</i> , 2014, 117, 14-16.	2.6	14
32	Photoluminescence properties of a novel red emitting $\text{Ba}_{10}\text{F}_2(\text{PO}_4)_6:\text{Eu}^{3+}$ phosphor. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 145, 194-197.	3.9	14
33	Synthesis and photoluminescence properties of a novel $\text{Ca}_2\text{LaNbO}_6:\text{Mn}^{4+}$ double perovskite phosphor for plant growth LEDs. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 15504-15511.	2.2	14
34	Charge compensation assisted enhanced photoluminescence derived from Al^{3+} -codoped $\text{NaLaMgWO}_6:\text{Mn}^{4+}$ phosphors for plant growth lighting applications. <i>Journal of Luminescence</i> , 2020, 226, 117438.	3.1	14
35	Systematic studies on $\text{Ca}_{19}\text{M}_2(\text{PO}_4)_{14}:\text{Eu}^{3+}$ ($\text{M} = \text{Mg}, \text{Zn}$) phosphors: Effects of M cation on photoluminescence. <i>Journal of Alloys and Compounds</i> , 2020, 844, 156070.	5.5	14
36	A novel blue-emitting $\text{Sr}_2\text{Gd}_8(\text{SiO}_4)_6\text{O}_2:\text{Bi}^{3+}$ phosphor with oxyapatite structure. <i>Inorganic Chemistry Communication</i> , 2021, 124, 108372.	3.9	14

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37	NaLa ₂ SbO ₆ :Mn ⁴⁺ far-red phosphor: Synthesis, luminescence properties and emission enhancement by Al ³⁺ ions. <i>Journal of Luminescence</i> , 2020, 219, 116865.	3.1	13
38	High-brightness Eu ³⁺ -doped La _{0.67} Mg _{0.5} W _{0.5} O ₃ red phosphor for NUV light-emitting diodes application. <i>Materials Letters</i> , 2015, 160, 302-304.	2.6	12
39	High-brightness Ca ₉ NaGd _{0.667} (1-x)(PO ₄) ₇ :xEu ³⁺ red phosphor for NUV light-emitting diodes application. <i>Journal of Alloys and Compounds</i> , 2017, 695, 3220-3224.	5.5	12
40	Highly efficient and thermally stable CaMgLaSbO ₆ :Mn ⁴⁺ red phosphor for indoor plant growth. <i>Inorganic Chemistry Communication</i> , 2019, 110, 107607.	3.9	12
41	Preparation and investigation of (Sr _{0.85} Mg _{0.14}) ₃ (P _{1-x} Si _x O ₄) ₂ : Dy ³⁺ single-phase full-color phosphor. <i>Materials Letters</i> , 2013, 90, 1-3.	2.6	11
42	Preparation and luminescence properties of Sr ₇ Zr(PO ₄) ₆ :Dy ³⁺ single-phase full-color phosphor. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 4202-4206.	2.2	11
43	Tunable white light emission from single-phased Li ₂ SrSiO ₄ :Dy ³⁺ phosphors by co-doping with Eu ³⁺ . <i>Luminescence</i> , 2015, 30, 72-78.	2.9	10
44	A novel promising red phosphor Ca ₉ LiBi _{0.667} (PO ₄) ₇ :Eu ³⁺ with excellent responsiveness to phytochrome PFR for the indoor plant cultivation. <i>Journal of Molecular Structure</i> , 2020, 1210, 127998.	3.6	10
45	Synthesis and photoluminescence properties of Al ₉ (SiO ₄) ₆ O ₂ :Eu ³⁺ (A = Li, Na) red phosphor. <i>Materials Research Bulletin</i> , 2017, 94, 147-153.	5.2	9
46	A Comparative Study on the Photoluminescence Properties of Sr ₃ RE ₂ (BO ₃) ₄ :Eu ³⁺ (RE = Y, Gd) Red Phosphors with High Quenching Concentration and Intensity of 5D ₀ →7F ₄ Transition. <i>Journal of Electronic Materials</i> , 2019, 48, 5143-5153.	2.2	9
47	Mn ⁴⁺ doped tetragonal Sr ₉ Gd ₂ W ₄ O ₂₄ far-red phosphor: Synthesis, luminescence properties, and potential applications in indoor plant cultivation. <i>Journal of Luminescence</i> , 2020, 220, 117027.	3.1	9
48	Luminescence properties and energy transfer in Ce ³⁺ and Tb ³⁺ co-doped Sr ₅ (PO ₄) ₂ SiO ₄ phosphor. <i>Journal of Luminescence</i> , 2020, 223, 117253.	3.1	9
49	Synthesis and luminescence of Eu ³⁺ -doped in triple phosphate Ca ₈ MgBi(PO ₄) ₇ with whitlockite structure. <i>Luminescence</i> , 2015, 30, 1190-1194.	2.9	8
50	A dual-emission Ca ₉ MgLi(PO ₄) ₇ : Ce ³⁺ , Mn ²⁺ phosphor with energy transfer for plant-lighting. <i>Optical Materials</i> , 2020, 108, 110201.	3.6	8
51	A novel single-phased Sr ₄ La ₆ (SiO ₄) ₆ Cl ₂ :Dy ³⁺ phosphor for white-light-emitting diodes. <i>Inorganic Chemistry Communication</i> , 2020, 117, 107948.	3.9	8
52	Fabrication of ZnSn(OH) ₆ /ZnO/BiOBr with high photocatalytic efficiency in removal of various organic pollutants. <i>Journal of Alloys and Compounds</i> , 2022, 896, 162920.	5.5	8
53	Photoluminescence properties of a novel red emitting NaLaTi ₂ O ₆ :Eu ³⁺ phosphor. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 724-729.	2.2	7
54	Systematic studies on Sr ₄ La ₆ (SiO ₄) ₆ M ₂ :Eu ³⁺ (M = F/Cl) phosphors: effects of the halogen anions on photoluminescence. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 1803-1812.	2.2	6

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55	Comparative study of the luminescence properties of $\text{Ca}_{2+x}\text{La}_{8-x}(\text{SiO}_4)_6-x(\text{PO}_4)_x\text{O}_2:\text{Eu}^{3+}$ ($x = 0, 2$) red phosphors. <i>Journal of Luminescence</i> , 2020, 221, 117043.	3.1	5
56	Finding a novel $\text{Ca}_2\text{M}_3(\text{SiO}_4)_2(\text{PO}_4)\text{O}$ ($\text{M} = \text{La}, \text{Y}$): Eu^{3+} red-emitting phosphor with positive responsiveness to phytochrome: Application in plant cultivation. <i>Journal of Luminescence</i> , 2021, 237, 118151.	3.1	5
57	Luminescence properties of the $\text{NaLaMg}_{0.92}\text{Ca}_{0.08}\text{WO}_6:\text{Sm}^{3+}$ red phosphor. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 16755-16761.	2.2	4
58	Red-emitting $\text{LaOF}:\text{Eu}^{3+}$ phosphor modified by tetraethyl orthosilicate to boost the Luminescence intensity for LEDs. <i>Optik</i> , 2020, 223, 165574.	2.9	4
59	Synthesis and photoluminescence properties of high thermal stability Mn^{4+} in orthorhombic $\text{SrLa}_2\text{Mg}_2\text{W}_2\text{O}_{12}$ red phosphor for warm w-LEDs. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 4677-4686.	2.2	4
60	Investigation of luminescence properties and the energy transfer mechanism of $\text{LiSrBO}_3:\text{Ce}^{3+}, \text{Tb}^{3+}$ phosphors. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 6925-6931.	2.2	3
61	Photoluminescence of a novel red emitting phosphor $\text{LiLaMgWO}_6:\text{Eu}^{3+}$. <i>Russian Journal of Physical Chemistry A</i> , 2017, 91, 785-790.	0.6	3
62	Comparative study of the Eu^{3+} luminescence in the $\text{AGd}_9(\text{SiO}_4)_6\text{O}_2$ ($\text{A} = \text{Li}, \text{Na}$) red phosphor with high color purity and brightness. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 19561-19568.	2.2	3
63	$\text{BiOBr}@ \text{SBA-15}$ system as a novel photocatalyst with high photocatalytic performance. <i>Materials Letters</i> , 2020, 278, 128462.	2.6	3
64	Multicolor-tunable $\text{Ca}_8\text{MgBi}(\text{PO}_4)_7:\text{Ce}^{3+}, \text{Tb}^{3+}, \text{Mn}^{2+}$ phosphors under dual-channel excitation. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 12880-12891.	2.2	3
65	Synthesis and luminescence properties of $\text{La}_{0.67}\text{Mg}_{0.5}\text{W}_{0.5}\text{O}_3:\text{Tb}^{3+}$ green phosphors. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 9798-9803.	2.2	2
66	Photoluminescence Properties of Novel Far-Red Emission $\text{Ca}_3\text{Gd}_2\text{W}_2\text{O}_{12}:\text{Mn}^{4+}$ Phosphor. <i>Russian Journal of Physical Chemistry A</i> , 2019, 93, 2306-2313.	0.6	2
67	Synthesis and luminescence properties of $\text{CaLaMgNbO}_6:\text{Mn}^{4+}$ red phosphor for UV-based w-LEDs. <i>Modern Physics Letters B</i> , 2019, 33, 1950426.	1.9	2
68	A new strategy to the $\text{NaY}(\text{MoO}_4)_2:\text{Eu}^{3+}$ phosphors modified by tetraethyl orthosilicate for LEDs: Photoluminescence properties and morphology. <i>Optik</i> , 2020, 217, 164872.	2.9	2
69	Synthesis and Properties of $\text{Ca}_2\text{La}_3(\text{SiO}_4)_2(\text{PO}_4)\text{O}:\text{Dy}^{3+}$ Single-Phase Full-Color Phosphor. <i>Russian Journal of Physical Chemistry A</i> , 2020, 94, 1230-1233.	0.6	2
70	Construction of $\text{Fe}_9\text{S}_{10}@ \text{Fe}_2\text{O}_3@ \text{Fe}_3\text{S}_4$ conductor-semiconductor type heterojunction as photoactivator of peroxymonosulfate toward the degradation of Malachite Green. <i>Chemical Physics Letters</i> , 2021, 781, 139001.	2.6	2
71	High photocatalytic performance of $\text{Bi}_2\text{O}(\text{OH})_2\text{SO}_4$: Based on dual anion synergistic effect. <i>Materials Letters</i> , 2021, 284, 128899.	2.6	0
72	Realizing a Novel Red-Emitting $\text{Ca}_{0.99}\text{MoO}_4:0.01\text{Eu}^{3+}, \text{Al}^{3+}$ Phosphor: Charge Compensation, Molten Salt Synthesis. <i>Russian Journal of Physical Chemistry A</i> , 2021, 95, S149-S155.	0.6	0