

Zhi-wei Zhang

List of Publications by Year in descending order

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72
papers

1,298
citations

346980

22
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466096

32
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all docs

72
docs citations

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times ranked

845
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	2.8	8
2	A novel blue-emitting Sr2Gd8(SiO4)6O2:Bi3+ phosphor with oxyapatite structure. <i>Inorganic Chemistry Communication</i> , 2021, 124, 108372.	1.8	14
3	High photocatalytic performance of Bi2O(OH)2SO4: Based on dual anion synergistic effect. <i>Materials Letters</i> , 2021, 284, 128899.	1.3	0
4	Realizing a Novel Red-Emitting Ca0.99MoO4:0.01Eu3+, Al3+ Phosphor: Charge Compensation, Molten Salt Synthesis. <i>Russian Journal of Physical Chemistry A</i> , 2021, 95, S149-S155.	0.1	0
5	Finding a novel Ca2M3(SiO4)2(PO4)O (M = La, Y):Eu3+ red-emitting phosphor with positive responsiveness to phytochrome: Application in plant cultivation. <i>Journal of Luminescence</i> , 2021, 237, 118151.	1.5	5
6	Construction of Fe9S10@Fe2O3@Fe3S4 conductor-semiconductor type heterojunction as photoactivator of peroxydisulfate toward the degradation of Malachite Green. <i>Chemical Physics Letters</i> , 2021, 781, 139001.	1.2	2
7	NaLa2SbO6:Mn4+ far-red phosphor: Synthesis, luminescence properties and emission enhancement by Al3+ ions. <i>Journal of Luminescence</i> , 2020, 219, 116865.	1.5	13
8	Effects of Al3+-substitution on photoluminescence properties of Sr2YNbO6:Mn4+ far-red phosphor for plant cultivation. <i>Journal of Luminescence</i> , 2020, 218, 116828.	1.5	19
9	Synthesis and luminescent properties of a novel deep-red phosphor Sr2GdNbO6:Mn4+ for indoor plant growth lighting. <i>Journal of Luminescence</i> , 2020, 220, 116968.	1.5	21
10	A novel Mn4+-activated garnet-type Li5La3Nb2O12 far red-emitting phosphor with high thermal stability for plant cultivation. <i>Journal of Luminescence</i> , 2020, 219, 116888.	1.5	23
11	A new strategy to the NaY(MoO4)2:Eu3+ phosphors modified by tetraethyl orthosilicate for LEDs: Photoluminescence properties and morphology. <i>Optik</i> , 2020, 217, 164872.	1.4	2
12	A dual-emission Ca9MgLi(PO4)7: Ce3+, Mn2+ phosphor with energy transfer for plant-lighting. <i>Optical Materials</i> , 2020, 108, 110201.	1.7	8
13	BiOBr@SBA-15 system as a novel photocatalyst with high photocatalytic performance. <i>Materials Letters</i> , 2020, 278, 128462.	1.3	3
14	Red-emitting LaO:Eu3+ phosphor modified by tetraethyl orthosilicate to boost the Luminescence intensity for LEDs. <i>Optik</i> , 2020, 223, 165574.	1.4	4
15	Synthesis and Properties of Ca2La3(SiO4)2(PO4)O:Dy3+ Single-Phase Full-Color Phosphor. <i>Russian Journal of Physical Chemistry A</i> , 2020, 94, 1230-1233.	0.1	2
16	A new strategy to the phosphors for plant growth LEDs: Far red emission from the Ca9MY0.667(PO4)7 (M = Li, Na):Eu3+ phosphors due to the Eu3+: 5D0 → 7F4 transition. <i>Journal of Luminescence</i> , 2020, 225, 117404.	1.5	22
17	Charge compensation assisted enhanced photoluminescence derived from Al3+-codoped NaLaMgWO6:Mn4+ phosphors for plant growth lighting applications. <i>Journal of Luminescence</i> , 2020, 226, 117438.	1.5	14
18	Multicolor-tunable Ca8MgBi(PO4)7: Ce3+, Tb3+, Mn2+ phosphors under dual-channel excitation. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 12880-12891.	1.1	3

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19	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.	2.8	14
20	A novel promising red phosphor $\text{Ca}_9\text{LiBi}_{0.667}(\text{PO}_4)_7:\text{Eu}^{3+}$ with excellent responsiveness to phytochrome PFR for the indoor plant cultivation. <i>Journal of Molecular Structure</i> , 2020, 1210, 127998.	1.8	10
21	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.	1.5	21
22	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.	1.5	5
23	$\text{Sr}_2\text{LaSbO}_6:\text{Mn}^{4+}$ far-red phosphor for plant cultivation: Synthesis, luminescence properties and emission enhancement by Al^{3+} ions. <i>Journal of Luminescence</i> , 2020, 221, 117091.	1.5	30
24	Effects of Ti^{4+} - and W^{6+} -substitution on photoluminescence properties of $\text{Sr}_2\text{GdSbO}_6:\text{Mn}^{4+}$ phosphor for plant cultivation. <i>Journal of Alloys and Compounds</i> , 2020, 829, 154475.	2.8	27
25	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.	2.3	25
26	Mn^{4+} doped tetragonal $\text{Sr}_9\text{Gd}_2\text{W}_4\text{O}_{24}$ far-red phosphor: Synthesis, luminescence properties, and potential applications in indoor plant cultivation. <i>Journal of Luminescence</i> , 2020, 220, 117027.	1.5	9
27	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.	1.1	4
28	Luminescence properties and energy transfer in Ce^{3+} and Tb^{3+} co-doped $\text{Sr}_5(\text{PO}_4)_2\text{SiO}_4$ phosphor. <i>Journal of Luminescence</i> , 2020, 223, 117253.	1.5	9
29	A novel single-phased $\text{Sr}_4\text{La}_6(\text{SiO}_4)_6\text{Cl}_2:\text{Dy}^{3+}$ phosphor for white-light-emitting diodes. <i>Inorganic Chemistry Communication</i> , 2020, 117, 107948.	1.8	8
30	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.	1.1	14
31	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.	1.1	3
32	Luminescent properties of Zn^{2+} -doped $\text{CaAl}_2\text{O}_9:\text{Mn}^{4+}$ deep-red phosphor for indoor plant cultivation. <i>Ceramics International</i> , 2019, 45, 8265-8270.	2.3	32
33	A Comparative Study on the Photoluminescence Properties of $\text{Sr}_3\text{RE}_2(\text{BO}_3)_4:\text{Eu}^{3+}$ ($\text{RE} = \text{Y}, \text{Gd}$) Red Phosphors with High Quenching Concentration and Intensity of $5D_0 \rightarrow 7F_4$ Transition. <i>Journal of Electronic Materials</i> , 2019, 48, 5143-5153.	1.0	9
34	Synthesis and photoluminescence properties of novel $\text{Sr}_3\text{LiSbO}_6:\text{Mn}^{4+}$ red phosphor for indoor plant growth. <i>Optical Materials</i> , 2019, 89, 609-614.	1.7	35
35	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.	0.1	2
36	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.	1.0	2

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37	Highly efficient and thermally stable CaMgLaSbO ₆ :Mn ⁴⁺ red phosphor for indoor plant growth. <i>Inorganic Chemistry Communication</i> , 2019, 110, 107607.	1.8	12
38	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.	1.5	63
39	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.	1.1	35
40	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.	1.1	6
41	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.	2.3	81
42	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.	1.5	47
43	Generation of bright white-light by energy-transfer strategy in Ca ₁₉ Zn ₂ (PO ₄) ₁₄ :Ce ³⁺ , Tb ³⁺ , Mn ²⁺ phosphors. <i>Journal of Luminescence</i> , 2019, 206, 244-249.	1.5	24
44	Tunable luminescence and energy transfer properties of Ca ₁₉ Mg ₂ (PO ₄) ₁₄ :Ce ³⁺ , Tb ³⁺ , Mn ²⁺ phosphors. <i>Journal of Alloys and Compounds</i> , 2017, 708, 671-677.	2.8	18
45	Synthesis and luminescence properties of La _{0.67} Mg _{0.5} W _{0.5} O ₃ :Tb ³⁺ green phosphors. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 9798-9803.	1.1	2
46	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.	2.0	38
47	Photoluminescence of a novel red emitting phosphor LiLaMgWO ₆ :Eu ³⁺ . <i>Russian Journal of Physical Chemistry A</i> , 2017, 91, 785-790.	0.1	3
48	Luminescence properties of the NaLaMg _{0.92} Ca _{0.08} WO ₆ :Sm ³⁺ red phosphor. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 16755-16761.	1.1	4
49	Luminescence properties of a novel promising red phosphor LiY ₉ (SiO ₄) ₆ O ₂ :Eu ³⁺ . <i>Materials Letters</i> , 2017, 204, 101-103.	1.3	17
50	Synthesis and photoluminescence properties of AlA ₉ (SiO ₄) ₆ O ₂ :Eu ³⁺ (A = Li, Na) red phosphor. <i>Materials Research Bulletin</i> , 2017, 94, 147-153.	2.7	9
51	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.	2.8	12
52	Investigation of luminescence properties and the energy transfer mechanism of LiSrBO ₃ :Ce ³⁺ , Tb ³⁺ phosphors. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 6925-6931.	1.1	3
53	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.	2.8	41
54	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.	1.3	35

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55	Photoluminescence properties of a novel red emitting NaLaTi ₂ O ₆ :Eu ³⁺ phosphor. Journal of Materials Science: Materials in Electronics, 2016, 27, 724-729.	1.1	7
56	High-brightness Sm ³⁺ -doped La _{0.67} Mg _{0.5} W _{0.5} O ₃ red phosphor for NUV light-emitting diodes application. Journal of Alloys and Compounds, 2016, 654, 146-150.	2.8	18
57	Photoluminescence properties of a novel red emitting Ba ₁₀ F ₂ (PO ₄) ₆ :Eu ³⁺ phosphor. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 145, 194-197.	2.0	14
58	Enhanced novel white emission in Ca ₃ (PO ₄) ₂ :Dy ³⁺ single-phase full-color phosphor by charge compensation. Journal of Materials Science: Materials in Electronics, 2015, 26, 1923-1931.	1.1	29
59	High-brightness Eu ³⁺ -doped La _{0.67} Mg _{0.5} W _{0.5} O ₃ red phosphor for NUV light-emitting diodes application. Materials Letters, 2015, 160, 302-304.	1.3	12
60	Preparation and luminescence properties of Sr ₇ Zr(PO ₄) ₆ :Dy ³⁺ single-phase full-color phosphor. Journal of Materials Science: Materials in Electronics, 2015, 26, 4202-4206.	1.1	11
61	Synthesis and luminescence of Eu ³⁺ -doped in triple phosphate Ca ₈ MgBi(PO ₄) ₇ with whitlockite structure. Luminescence, 2015, 30, 1190-1194.	1.5	8
62	A novel red-emitting phosphor Ca ₉ Bi(PO ₄) ₇ :Eu ³⁺ for near ultraviolet white light-emitting diodes. Current Applied Physics, 2015, 15, 248-252.	1.1	43
63	A novel white emission in Ba ₁₀ F ₂ (PO ₄) ₆ :Dy ³⁺ single-phase full-color phosphor. Materials Chemistry and Physics, 2015, 151, 345-350.	2.0	33
64	Tunable white light emission from single-phased Li ₂ SrSiO ₄ :Dy ³⁺ phosphors by co-doping with Eu ³⁺ . Luminescence, 2015, 30, 72-78.	1.5	10
65	Preparation and investigation of CaZr ₄ (PO ₄) ₆ :Dy ³⁺ single-phase full-color phosphor. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 137, 1-6.	2.0	50
66	Enhanced novel orange red emission in LiSr _{4-x} (BO ₃) ₃ :xSm ³⁺ by K ⁺ . Journal of Materials Science, 2014, 49, 2534-2541.	1.7	29
67	Enhanced novel orange red emission in Ca ₃ (PO ₄) ₂ :Sm ³⁺ by charge compensation. Optics and Laser Technology, 2014, 62, 63-68.	2.2	50
68	Photoluminescence properties of a novel red emitting Sr ₇ Zr(PO ₄) ₆ :Eu ³⁺ phosphor. Optical Materials, 2014, 37, 866-869.	1.7	16
69	Influence of Al ³⁺ ions on the enhancement of the fluorescence in the CaMoO ₄ :Sm ³⁺ phosphor. Optics and Laser Technology, 2014, 56, 348-353.	2.2	18
70	Preparation and investigation of Ca _{2.96} (PO ₄) ₂ :0.04Dy ³⁺ single-phase full-color phosphor. Materials Letters, 2014, 117, 14-16.	1.3	14
71	Synthesis and luminescence properties of novel LiSr ₄ (BO ₃) ₃ :Dy ³⁺ phosphors. Ceramics International, 2013, 39, 1723-1728.	2.3	53
72	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. Materials Letters, 2013, 90, 1-3.	1.3	11