Jia Zhang

List of Publications by Year
in descending order

83	1,926	218677	302126
papers	citations	26 h-index	39 g-index

84	84	84	1286
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Upconversion Luminescence and Discussion of Sensitivity Improvement for Optical Temperature Sensing Application. Inorganic Chemistry, 2018, 57, 5038-5047.	4.0	138
2	Investigations on upconversion luminescence of K3Y(PO4)2:Yb3+-Er3+/Ho3+/Tm3+ phosphors for optical temperature sensing. Journal of Alloys and Compounds, 2018, 748, 438-445.	5.5	114
3	Upconversion luminescence of Ba9Y2Si6O24:Yb3+-Ln3+ (LnÂ= Er, Ho, and Tm) phosphors for temperature sensing. Materials Chemistry and Physics, 2018, 206, 40-47.	4.0	76
4	Crystal structure and up- and down-conversion properties of Yb3+, Ho3+ codoped BaGdF5 solid-solution with different morphologies. CrystEngComm, 2012, 14, 3131.	2.6	66
5	Structure, enhancement and white luminescence of multifunctional Lu6O5F8:20%Yb3+,1%Er3+(Tm3+) nanoparticles via further doping with Li+ under different excitation sources. Nanoscale, 2013, 5, 2491.	5.6	54
6	Electronic structure, upconversion luminescence and optical temperature sensing behavior of Yb3+-Er3+/Ho3+ doped NaLaMgWO6. Journal of Alloys and Compounds, 2019, 783, 84-94.	5.5	54
7	Investigation on Upconversion Luminescence and Optical Temperature Sensing Behavior for Ba₂Gd₂Si₄O₁₃:Yb³⁺-Er³⁺/Ho³⁺/Tm³⁺ Phosphors. Industrial & Engineering Chemistry Research, 2018, 57, 7507-7515.	3.7	50
8	Luminescence properties of Ca10K(PO4)7:RE3+ (RE=Ce, Tb, Dy, Tm and Sm) under vacuum ultraviolet excitation. Journal of Alloys and Compounds, 2011, 509, 4649-4652.	5.5	48
9	Optical temperature sensing using upconversion luminescence in rare-earth ions doped Ca2Gd8(SiO4)6O2 phosphors. Journal of Alloys and Compounds, 2019, 771, 838-846.	5.5	47
10	Vacuum ultraviolet and near-infrared excited luminescence properties of Ca3(PO4)2:RE3+, Na+ (RE=Tb,) Tj ETQq0 0 0 rgBT /Overlock 10	2.9	46
11	Preparation and drug-delivery properties of hollow YVO₄:Ln³⁺and mesoporous YVO₄:Ln³⁺@nSiO₂@mSiO₂(Ln = Eu, Yb,) Tj ETQq1 1 0.784314 rgBT	6.1	43
12	Up-conversion luminescence and near-infrared quantum cutting in Y6O5F8:RE3+ (RE = Yb, Er, and Ho) with controllable morphologies by hydrothermal synthesis. Dalton Transactions, 2013, 42, 3542.	3.3	42
13	Temperature-sensing luminescent materials La_{9.67}Si₆O_{26.5}:Yb³⁺â€“Er³⁺/Ho³⁺ based on pump-power-dependent upconversion luminescence. Inorganic Chemistry Frontiers, 2020, 7, 4892-4901.	6.0	42
14	Near-infrared quantum cutting in Ho3+, Yb3+-codoped BaGdF5 nanoparticles via first-and second-order energy transfers. Nanoscale Research Letters, 2012, 7, 636.	5.7	41
15	Upconversion luminescence of Ba₃La(PO₄)₃:Yb³⁺-Er³⁺/Tm³⁺ phosphors for optimal temperature sensing. Applied Optics, 2018, 57, 1345.	1.8	41
16	Effect of dopant contents on upconversion luminescence and temperature sensing behavior in Ca3La6Si6O24:Yb3+-Er3+/Ho3+ phosphors. Journal of Luminescence, 2018, 201, 217-223.	3.1	40
17	Luminescence properties of Ca 14 Mg 2 (SiO 4) 8 :Eu 2+ from various Eu 2+ sites for white-light-emitting diodes. Materials Research Bulletin, 2014, 60, 467-473.	5.2	38
18	Vacuum Ultravioletâ€“Ultraviolet, Xâ€Ray, and Nearâ€Infrared Excited Luminescence Properties of <scp><scp>SrR₂O₄</scp></scp>:<scp><scp>RE³⁺</scp></scp></scp> (<scp>R</scp>Â=Â<scp><scp>Y</scp></scp> and <scp><scp>Gd</scp></scp>;) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td (<scp>RE< American Ceramic Society, 2012, 95, 243-249.	3.8	34

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19	Upconversion luminescence of Ca2Gd8(SiO4)6O2:Yb3+-Tm3+-Tb3+/Eu3+ phosphors for optical temperature sensing. Optics and Laser Technology, 2019, 115, 487-492.	4.6	32
20	Structure and luminescence properties of the novel multifunctional K2Y(WO4)(PO4):Ln3+ (Ln = Tb, Eu,) Tj ETQq0 0 0 rgBT /Overlock 10	3.6	31
21	Yb3+/Tm3+ and Yb3+/Ho3+ doped NaY9(SiO4)6O2 phosphors: Upconversion luminescence processes, temperature-dependent emission spectra and optical temperature-sensing properties. Journal of Alloys and Compounds, 2021, 860, 158473.	5.5	30
22	Luminescent properties of novel K3R(PO4)2:Tb3+ (R=Y and Gd) phosphors for displays and lightings. Journal of Luminescence, 2014, 150, 46-49.	3.1	29
23	Up-conversion luminescence of novel Yb^3+-Ho^3+/Er^3+ doped Sr_5(PO_4)_3Cl phosphors for optical temperature sensing. Optical Materials Express, 2017, 7, 2084.	3.0	28
24	Temperature sensing based on upconversion luminescence of Er3+/Tm3+-Yb3+ doped Ca4Y6Si4O24 phosphors. Optical Materials, 2018, 81, 122-128.	3.6	28
25	Morphologies and up-conversion luminescence of Gd4O3F6:RE3+ (RE=Yb, Er, Ho and Tm) phosphors by Hydrothermal Synthesis. Journal of Luminescence, 2016, 174, 1-5.	3.1	26
26	Emission-tunable Sr1-2Ba Mg2(PO4)2:xCe3+,yEu2+,xNa+ phosphors for optical temperature sensing. Journal of Alloys and Compounds, 2017, 725, 1055-1062.	5.5	26
27	Tunable luminescence of LiY9(SiO4)6O2:Ce3+-Tb3+-Sm3+ phosphors for LED and temperature-sensing applications. Journal of Luminescence, 2019, 214, 116581.	3.1	26
28	Highly sensitive optical temperature sensing based on upconversion luminescence in Gd_{9.33}(SiO₄)₆O₂:Yb³⁺â€“Er³⁺/Ho³⁺ phosphors. Dalton Transactions, 2020, 49, 10949-10957.	3.9	26
29	Investigations on the luminescence of emission-tunable Ca₁₀K(PO₄)₇:Eu²⁺, Sr²⁺, Mg²⁺ phosphors for white LEDs. RSC Advances, 2015, 5, 2689-2693.	3.6	24
30	Investigation on optical temperature sensing behaviour for Y₄₆₇Si₃O₁₃:Tm³⁺,Yb³⁺ phosphors based on upconversion luminescence. Optical Materials Express, 2018, 8, 1841.	3.0	22
31	Y 4.67 Si 3 O 13 â€based phosphors: Structure, morphology and upconversion luminescence for optical thermometry. Journal of the American Ceramic Society, 2019, 102, 5471-5483.	3.8	22
32	The effect of dopant concentration and pump power on sensitivities of optical thermometry in LiLa9Si6O26:Yb3+-Er3+/Ho3+ phosphors based on upconversion luminescence. Journal of Alloys and Compounds, 2020, 846, 156397.	5.5	22
33	White-emission in single-phase Ba2Gd2Si4O13:Ce3+,Eu2+,Sm3+ phosphor for white-LEDs. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 192, 194-201.	3.9	21
34	Structure, Morphology and Upconversion Luminescence of Rare Earth Ions Doped LiY₉(SiO₄)₆O₂ for Temperature Sensing. Industrial & Engineering Chemistry Research, 2019, 58, 3490-3498.	3.7	21
35	Various strategies for optical thermometry with high sensitivities based on rare earth ions doped BaY2Si3O10 phosphors. Materials Research Bulletin, 2020, 122, 110660.	5.2	21
36	Bright White Up-Conversion Emission from Ho3+/Yb3+/Tm3+ Tri-Doped Y2SiO5 Phosphors. Journal of the Electrochemical Society, 2011, 158, J225.	2.9	20

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37	Investigations on luminescence of Ca8MgGd(PO4)7:Eu2+, Mn2+, Yb3+, Er3+, Ho3+, Tm3+ phosphors. Materials Research Bulletin, 2016, 74, 34-40.	5.2	20
38	Photoluminescence properties, Judd-Ofelt analysis, and optical temperature sensing of Eu3+-doped Ca3La7(SiO4)5(PO4)O2 luminescent materials. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 230, 118057.	3.9	20
39	Photoluminescence of Tb3+ and Mn2+ activated Ca8MgGd(PO4)7 under vacuum ultraviolet excitation. Optical Materials, 2011, 33, 1325-1330.	3.6	19
40	KBaYSi2O7:Yb3+-Er3+/Ho3+ phosphors: Optical temperature sensing materials of high sensitivity. Journal of Luminescence, 2020, 227, 117562.	3.1	19
41	Luminescence of Sr2MgSi2O7-1.5xNx:Eu2+,Dy3+ phosphors with long-afterglow properties for white LEDs. Optical Materials, 2019, 88, 333-338.	3.6	18
42	Multicolor-emitting Ca3-x-ySry(PO4)2:xEu2+ (0â‰¤xâ‰¤0.075, 0â‰¤yâ‰¤2.2) phosphors for light-emitting diodes. Materials and Design, 2015, 87, 124-129.	7.0	16
43	A potential Eu3+-activated Ca10K(PO4)7 red phosphor for white light-emitting diodes. Materials Research Bulletin, 2011, 46, 2554-2559.	5.2	15
44	Investigations on the luminescence of Ba_2Mg(PO_4)_2:Eu^2+,Mn^2+ phosphors for LEDs. Optical Materials Express, 2016, 6, 3470.	3.0	15
45	Investigations on luminescence of CaLa4Si3O13-based phosphors for multifunctional applications. Journal of Alloys and Compounds, 2016, 682, 618-626.	5.5	15
46	Investigation of dopant concentration and excitation power on sensitivities of Y4.67(SiO4)3O:Yb3+,Er3+ upconversion phosphors for optical thermometer. Optics and Laser Technology, 2019, 120, 105747.	4.6	15
47	Photoluminescence properties of Ca9La(PO4)5SiO4F2:Ce3+/Tb3+/Mn2+ phosphors for applications in white light-emitting diodes and optical thermometers. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 229, 117886.	3.9	15
48	Investigations on morphology, photoluminescence and cathodoluminescence of SrWO4 and SrWO4:Tb3+. Optical Materials, 2014, 38, 126-130.	3.6	14
49	Warm white-light generation in Ca9MgNa(PO4)7:Sr2+, Mn2+, Ln (Ln=Eu2+, Yb3+, Er3+, Ho3+, and Tm3+) under near-ultraviolet and near-infrared excitation. Ceramics International, 2015, 41, 9910-9915.	4.8	13
50	Luminescence properties of Ce3+ and/or Mn2+ activated Ca10K(PO4)7 under ultraviolet and vacuum ultraviolet excitation. Materials Chemistry and Physics, 2011, 130, 1265-1269.	4.0	12
51	Investigations on photoluminescence and cathodoluminescence properties of Ca3La6(SiO4)6:Tb3+, Mn2+. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2016, 165, 85-89.	3.9	12
52	A long-persistent phosphor Sr3MgSi2O8-1.5xNx:Eu2+,Dy3+,Mn2+ based on white LEDs applications. Journal of Luminescence, 2019, 211, 69-75.	3.1	12
53	Investigation on luminescence of bifunctional Y4.67(SiO4)3O:Ce3+/Tb3+/Eu3+ phosphors. Journal of Luminescence, 2020, 218, 116842.	3.1	12
54	Investigation on luminescence properties of BaY2Si3O10:Er3+/Ho3+â€“Yb3+ for optical temperature sensing. Journal of Materials Science: Materials in Electronics, 2018, 29, 20033-20039.	2.2	10

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55	Temperature sensing behavior in Yb3+â€“Tb3+ and Eu3+ doped Ca2Gd8(SiO4)6O2 phosphors based on upconversion and downshifting luminescence. Journal of Materials Science: Materials in Electronics, 2018, 29, 12061-12066.	2.2	10
56	Investigation on luminescence of emission-tunable Ca5Y3Na2(PO4)5SiO4F2:Eu2+,Tb3+,Mn2+ phosphors for white LEDs. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 201, 67-72.	3.9	10
57	Hydrothermal synthesis of Y(V, P)O4:Ln3+ (Ln=Eu, Yb, and Er) with shape- and size-controlled morphologies. Journal of Alloys and Compounds, 2014, 610, 409-415.	5.5	9
58	Investigation on photoluminescence of Ca2Gd8(SiO4)6O2:Ce3+,Tb3+,Mn2+ phosphors. Materials Research Bulletin, 2017, 95, 570-577.	5.2	9
59	Investigation on visible quantum cutting of Tb3+ in oxide hosts. Journal of Applied Physics, 2014, 115, 093108.	2.5	8
60	Generation of tunable-emission in Li_4Ca_1-xSr_096 + x(SiO_4)_2:004Eu^2+ phosphors for LEDs application. Optical Materials Express, 2015, 5, 1704.	3.0	8
61	Investigation on luminescence properties of emission-tunable Ba 9 Y 2 Si 6 O 24 :Tb 3+ , Mn 2+ phosphors. Ceramics International, 2016, 42, 3437-3441.	4.8	8
62	Optical temperature-sensing properties based on upconversion luminescence of La9.31Si6.24O26:Er3+,Yb3+ with different strategies. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 265, 120402.	3.9	8
63	Yb3+-concentration-dependent upconversion luminescence of Ho3+-Yb3+ codoped La9.31(Si1.04O4)6O2 for optical thermometer. Journal of Luminescence, 2022, 250, 119073.	3.1	8
64	WHITE UPCONVERSION LUMINESCENCE FROM (Yb3+/Tm3+/Ho3+) TRIDOPED GdF3 NANORODS AFTER HEAT TREATMENT. Functional Materials Letters, 2012, 05, 1250024.	1.2	7
65	Synthesis and Photoluminescence of a New Chlorogermanate Phosphor <scp><scp>Ca</scp></scp>₈<scp><scp>Mg</scp></scp>(<scp><scp>GeO</scp></scp>₄₄<sub><gc Journal of the American Ceramic Society, 2013, 96, 223-227.	3.8	7
66	Investigation of photoluminescence in Ca9Lu(PO4)7: Tb3+, Mn2+ phosphors. Journal of Luminescence, 2014, 154, 193-197.	3.1	7
67	Investigation on photoluminescence properties of multifunctional Ca9La(PO4)5SiO4F2:Eu,Mn phosphors. Journal of Luminescence, 2019, 216, 116723.	3.1	7
68	Emission-tunable Sr8.5-mMg2+m(PO4)7:Eu2+/Mn2+ phosphors for multifunctional applications. Journal of Luminescence, 2021, 230, 117750.	3.1	7
69	Optical thermometry based on upconversion luminescence of Yb³⁺-Er³⁺ and Yb³⁺-Ho³⁺ doped Y₆WO₁₂ phosphors. Applied Optics, 2019, 58, 7451.	1.8	7
70	Investigation on the upconversion luminescence of Sr3AlO4F:Yb3+, Er3+, Ho3+ phosphors. Solid State Sciences, 2015, 50, 18-22.	3.2	6
71	Ce³⁺/Mn²⁺-activated Ca₇(PO₄)₂(SiO₄)₂: efficient luminescent materials for multifunctional applications. Optics Express, 2018, 26, A904.	3.4	6
72	Luminescence and energy transfer properties of color-tunable Sr4La(PO4)3O: Ce3+, Tb3+, Mn2+ phosphors for WLEDs. Optical Materials Express, 2018, 8, 1850.	3.0	6

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73	Upconversion luminescence of Sr8MgY(PO4)7:Yb3+â€“Er3+/Ho3+ phosphors for optical thermometry. Journal of Materials Science: Materials in Electronics, 2019, 30, 17780-17786.	2.2	6
74	Ratiometric fluorescence temperature-sensing properties of Eu3+ and Tm3+ in Gd4.67Si3O13 oxide host. Optics and Laser Technology, 2021, 138, 106854.	4.6	6
75	NaGd9(SiO4)6O2:Yb3+-Er3+/Tm3+: Optical thermometric materials of high-sensitivity by using different strategies. Journal of Luminescence, 2021, 239, 118388.	3.1	6
76	Luminescence of emission-tunable NaSr1â€“y-zBayCazPO4:Eu2+,Mn2+ phosphors for white LEDs. Journal of Luminescence, 2017, 190, 200-206.	3.1	5
77	Luminescence and energy transfer in warm white-light-emitting K3Y(PO4)2:Tb,Eu phosphor for LEDs applications. Journal of Materials Science: Materials in Electronics, 2018, 29, 3120-3126.	2.2	5
78	Luminescence properties of KBaYSi₂O₇:Ce/Eu-Tb phosphors for multifunctional applications. Applied Optics, 2019, 58, 4740.	1.8	4
79	The direct identification of quantum cutting in Tm³⁺ ions and energy transfer in the Tm³⁺/Yb³⁺ system based on a Ba₂Gd₂Si₄O₁₃ oxide host. Inorganic Chemistry Frontiers, 2022, 9, 719-728.	6.0	4
80	Luminescence of long-persistent Ca2MgSi2O7â^'1.5xNx:Eu2+,Dy3+ phosphors for LEDs applications. Journal of Materials Science: Materials in Electronics, 2019, 30, 4056-4063.	2.2	3
81	Quantum cutting in Tm3+-activated Ca9Gd(PO4)7 phosphors and effect of Tm3+ concentration on emission spectra. Journal of Alloys and Compounds, 2022, 890, 161808.	5.5	3
82	Intense emissions in Ce3+/Eu2+ doped Ca5.93-mSrmBa(PO4)4O phosphors via host adjustment and energy transfer. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 251, 119431.	3.9	2
83	Photoluminescence properties of Er3+ and Eu3+ ions based on oxide host for optical temperature sensing with high sensitivity. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 253, 119602.	3.9	2