

Xiaoyong Huang

List of Publications by Year in descending order

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Version: 2024-02-01

155
papers

11,506
citations

23567

58
h-index

30922

102
g-index

156
all docs

156
docs citations

156
times ranked

5789
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancing solar cell efficiency: the search for luminescent materials as spectral converters. <i>Chemical Society Reviews</i> , 2013, 42, 173-201.	38.1	1,446
2	Recent progress in quantum cutting phosphors. <i>Progress in Materials Science</i> , 2010, 55, 353-427.	32.8	523
3	Red phosphor converts white LEDs. <i>Nature Photonics</i> , 2014, 8, 748-749.	31.4	389
4	Facile synthesis of bifunctional Eu ³⁺ -activated NaBiF ₄ red-emitting nanoparticles for simultaneous white light-emitting diodes and field emission displays. <i>Chemical Engineering Journal</i> , 2018, 337, 91-100.	12.7	374
5	Synthesis and photoluminescence properties of novel highly thermal-stable red-emitting Na ₃ Sc ₂ (PO ₄) ₃ :Eu ³⁺ phosphors for UV-excited white-light-emitting diodes. <i>Journal of Alloys and Compounds</i> , 2018, 741, 300-306.	5.5	247
6	Molybdenum-doping-induced photoluminescence enhancement in Eu ³⁺ -activated CaWO ₄ red-emitting phosphors for white light-emitting diodes. <i>Dyes and Pigments</i> , 2017, 143, 86-94.	3.7	243
7	Finding a novel highly efficient Mn ⁴⁺ -activated Ca ₃ La ₂ W ₂ O ₁₂ far-red emitting phosphor with excellent responsiveness to phytochrome PFR: Towards indoor plant cultivation application. <i>Dyes and Pigments</i> , 2018, 152, 36-42.	3.7	231
8	Eu ³⁺ -activated Na ₂ Gd(PO ₄)(MoO ₄): A novel high-brightness red-emitting phosphor with high color purity and quantum efficiency for white light-emitting diodes. <i>Journal of Alloys and Compounds</i> , 2017, 720, 29-38.	5.5	224
9	Energy transfer and tunable photoluminescence of LaBWO ₆ :Tb ³⁺ , Eu ³⁺ phosphors for near-UV white LEDs. <i>Dyes and Pigments</i> , 2018, 150, 67-72.	3.7	201
10	Full-visible-spectrum lighting enabled by an excellent cyan-emitting garnet phosphor. <i>Journal of Materials Chemistry C</i> , 2020, 8, 4934-4943.	5.5	195
11	High-brightness and high-color purity red-emitting Ca ₃ Lu(AlO) ₃ (BO ₃) ₄ :Eu ³⁺ phosphors with internal quantum efficiency close to unity for near-ultraviolet-based white-light-emitting diodes. <i>Optics Letters</i> , 2018, 43, 1307.	3.3	190
12	A broadband cyan-emitting Ca ₂ LuZr ₂ (AlO ₄) ₃ :Ce ³⁺ garnet phosphor for near-ultraviolet-pumped warm-white light-emitting diodes with an improved color rendering index. <i>Journal of Materials Chemistry C</i> , 2020, 8, 1095-1103.	5.5	176
13	Synthesis, photoluminescence, cathodoluminescence, and thermal properties of novel Tb ³⁺ -doped BiOCl green-emitting phosphors. <i>Journal of Alloys and Compounds</i> , 2017, 695, 2773-2780.	5.5	168
14	Ultrafast synthesis of bifunctional Er ³⁺ /Yb ³⁺ -codoped NaBiF ₄ upconverting nanoparticles for nanothermometer and optical heater. <i>Journal of Colloid and Interface Science</i> , 2018, 514, 172-181.	9.4	167
15	Broadband dye-sensitized upconversion: A promising new platform for future solar upconverter design. <i>Journal of Alloys and Compounds</i> , 2017, 690, 356-359.	5.5	148
16	High-efficiency and thermally stable far-red-emitting NaLaMgWO ₆ :Mn ⁴⁺ phosphors for indoor plant growth light-emitting diodes. <i>Optics Letters</i> , 2018, 43, 3305.	3.3	148
17	Ultra-high color rendering warm-white light-emitting diodes based on an efficient green-emitting garnet phosphor for solid-state lighting. <i>Chemical Engineering Journal</i> , 2021, 405, 126950.	12.7	146
18	Novel Na ₃ Sc ₂ (PO ₄) ₃ :Ce ³⁺ , Tb ³⁺ phosphors for white LEDs: Tunable blue-green color emission, high quantum efficiency and excellent thermal stability. <i>Dyes and Pigments</i> , 2018, 151, 81-88.	3.7	142

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19	Yb ³⁺ -Concentration dependent upconversion luminescence and temperature sensing behavior in Yb ³⁺ /Er ³⁺ codoped Gd ₂ MoO ₆ nanocrystals prepared by a facile citric-assisted sol-gel method. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 1987-1995.	6.0	138
20	Highly efficient near-UV-excitable Ca ₂ YHfAl ₃ O ₁₂ :Ce ³⁺ ,Tb ³⁺ green-emitting garnet phosphors with potential application in high color rendering warm-white LEDs. <i>Journal of Materials Chemistry C</i> , 2020, 8, 4408-4420.	5.5	131
21	Active-core/active-shell nanostructured design: an effective strategy to enhance Nd ³⁺ /Yb ³⁺ cascade sensitized upconversion luminescence in lanthanide-doped nanoparticles. <i>Journal of Materials Chemistry C</i> , 2015, 3, 7652-7657.	5.5	114
22	Highly efficient Ce ³⁺ Tb ³⁺ energy transfer induced bright narrowband green emissions from garnet-type Ca ₂ YZr ₂ (AlO ₄) ₃ :Ce ³⁺ ,Tb ³⁺ phosphors for white LEDs with high color rendering index. <i>Journal of Materials Chemistry C</i> , 2019, 7, 10471-10480.	5.5	110
23	Highly efficient Eu ³⁺ -activated K ₂ Gd(WO ₄)(PO ₄) red-emitting phosphors with superior thermal stability for solid-state lighting. <i>Ceramics International</i> , 2017, 43, 10566-10571.	4.8	109
24	A novel highly efficient single-composition tunable white-light-emitting LiCa ₃ MgV ₃ O ₁₂ :Eu ³⁺ phosphor. <i>Dyes and Pigments</i> , 2018, 154, 82-86.	3.7	109
25	Novel Mn ⁴⁺ -activated LiLaMgWO ₆ far-red emitting phosphors: high photoluminescence efficiency, good thermal stability, and potential applications in plant cultivation LEDs. <i>RSC Advances</i> , 2018, 8, 27144-27151.	3.6	103
26	High-efficiency and thermal-stable Ca ₃ La(GaO) ₃ (BO ₃) ₄ :Eu ³⁺ red phosphors excited by near-UV light for white LEDs. <i>Dyes and Pigments</i> , 2018, 157, 40-46.	3.7	101
27	Multicolour tunable luminescence of thermal-stable Ce ³⁺ /Tb ³⁺ /Eu ³⁺ -trivalent Ca ₃ Gd(GaO) ₃ (BO ₃) ₄ phosphors via Ce ³⁺ Tb ³⁺ Eu ³⁺ energy transfer for near-UV WLEDs applications. <i>Ceramics International</i> , 2018, 44, 4915-4923.	4.8	97
28	Synthesis and photoluminescence properties of deep red-emitting CaGdAlO ₄ :Mn ⁴⁺ phosphors for plant growth LEDs. <i>Journal of Luminescence</i> , 2018, 203, 371-375.	3.1	97
29	Spectral conversion for solar cell efficiency enhancement using YVO ₄ :Bi ³⁺ ,Ln ³⁺ (Ln=Dy, Er, Ho, Eu, Sm), $\eta_{\text{EQE}} = 1.07843$	2.5	96
30	Enhanced electromagnetic absorbing performance of MOF-derived Ni/NiO/Cu@C composites. <i>Composites Part B: Engineering</i> , 2019, 164, 583-589.	12.0	96
31	Free-standing ZnO-CuO composite nanowire array films and their gas sensing properties. <i>Nanotechnology</i> , 2011, 22, 325704.	2.6	93
32	Synthesis and photoluminescence properties of novel far-red-emitting BaLaMgNbO ₆ :Mn ⁴⁺ phosphors for plant growth LEDs. <i>RSC Advances</i> , 2018, 8, 28538-28545.	3.6	93
33	LiCa ₃ MgV ₃ O ₁₂ :Sm ³⁺ : A new high-efficiency white-emitting phosphor. <i>Ceramics International</i> , 2018, 44, 10340-10344.	4.8	92
34	Broadband Downconversion of Ultraviolet Light to Near-Infrared Emission in Bi ³⁺ -Yb ³⁺ -Codoped Y ₂ O ₃ Phosphors. <i>Journal of the American Ceramic Society</i> , 2011, 94, 833-837.	3.8	89
35	Morphology evolution of Eu ³⁺ -activated NaTbF ₄ nanorods: a highly-efficient near-ultraviolet light-triggered red-emitting platform towards application in white light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2019, 7, 10802-10809.	5.5	85
36	Mn ⁴⁺ -activated KLaMgWO ₆ : A new high-efficiency far-red phosphor for indoor plant growth LEDs. <i>Ceramics International</i> , 2019, 45, 4564-4569.	4.8	85

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37	Synthesis, luminescence properties and thermal stability of Eu ³⁺ -activated Na ₂ Y ₂ B ₂ O ₇ red phosphors excited by near-UV light for pc-WLEDs. <i>Journal of Luminescence</i> , 2019, 205, 129-135.	3.1	82
38	Bio-inspired carbon doped graphitic carbon nitride with booming photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2019, 246, 61-71.	20.2	79
39	Concentration-dependent near-infrared quantum cutting in NaYF ₄ :Pr ³⁺ , Yb ³⁺ phosphor. <i>Journal of Applied Physics</i> , 2009, 106, .	2.5	78
40	Near-infrared quantum cutting via cooperative energy transfer in Gd ₂ O ₃ :Bi ³⁺ , Yb ³⁺ phosphors. <i>Journal of Applied Physics</i> , 2010, 107, .	2.5	77
41	Energy transfer and color-tunable luminescence properties of Dy ³⁺ and Eu ³⁺ co-doped Na ₃ Sc ₂ (PO ₄) ₃ phosphors for near-UV LED-based warm white LEDs. <i>Dyes and Pigments</i> , 2018, 156, 8-16.	3.7	75
42	Novel highly luminescent double-perovskite Ca ₂ GdSbO ₆ :Eu ³⁺ red phosphors with high color purity for white LEDs: Synthesis, crystal structure, and photoluminescence properties. <i>Journal of Luminescence</i> , 2020, 221, 117105.	3.1	75
43	Novel SrMg ₂ La ₂ W ₂ O ₁₂ :Mn ⁴⁺ far-red phosphors with high quantum efficiency and thermal stability towards applications in indoor plant cultivation LEDs. <i>RSC Advances</i> , 2018, 8, 30191-30200.	3.6	73
44	Novel highly efficient and thermally stable Ca ₂ GdT ₂ O ₆ :Eu ³⁺ red-emitting phosphors with high color purity for UV/blue-excited WLEDs. <i>Journal of Alloys and Compounds</i> , 2019, 804, 93-99.	5.5	73
45	Recent progress in black phosphorus nanostructures as environmental photocatalysts. <i>Chemical Engineering Journal</i> , 2020, 379, 122297.	12.7	73
46	Utilization of the internal electric field in semiconductor photocatalysis: A short review. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 72, 18-30.	5.8	72
47	Full-Spectrum White Light-Emitting Diodes Enabled by an Efficient Broadband Green-Emitting CaY ₂ ZrScAl ₃ O ₁₂ :Ce ³⁺ Garnet Phosphor. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 5643-5652.	8.0	72
48	Low-temperature solid-state synthesis and photoluminescence properties of novel high-brightness and thermal-stable Eu ³⁺ -activated Na ₂ Lu(MoO ₄)(PO ₄) red-emitting phosphors for near-UV-excited white LEDs. <i>Journal of Alloys and Compounds</i> , 2018, 764, 809-814.	5.5	69
49	High-efficiency and thermal-stable Eu ³⁺ -activated Ca ₃ Y(AlO) ₃ (BO ₃) ₄ red-emitting phosphors for near-UV-excited white LEDs. <i>Journal of Luminescence</i> , 2019, 205, 115-121.	3.1	67
50	Giant enhancement of upconversion emission in (NaYF ₄ :Nd ³⁺ /Yb ³⁺ /Ho ³⁺)/(NaYF ₄ :Nd ³⁺ /Yb ³⁺) core/shell nanoparticles excited at 808 nm. <i>Optics Letters</i> , 2015, 40, 3599.	3.3	66
51	Mn ⁴⁺ -activated Li ₃ Mg ₂ SbO ₆ as an ultrabright fluoride-free red-emitting phosphor for warm white light-emitting diodes. <i>RSC Advances</i> , 2019, 9, 3429-3435.	3.6	65
52	Double perovskite Ca ₂ LuTaO ₆ :Eu ³⁺ red-emitting phosphors: Synthesis, structure and photoluminescence characteristics. <i>Journal of Alloys and Compounds</i> , 2019, 804, 230-236.	5.5	65
53	Dual-model upconversion luminescence from NaGdF ₄ :Nd/Yb/Tm@NaGdF ₄ :Eu/Tb core-shell nanoparticles. <i>Journal of Alloys and Compounds</i> , 2015, 628, 240-244.	5.5	63
54	Far-red-emitting double-perovskite CaLaMgSbO ₆ :Mn ⁴⁺ phosphors with high photoluminescence efficiency and thermal stability for indoor plant cultivation LEDs. <i>RSC Advances</i> , 2018, 8, 31666-31672.	3.6	63

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55	Enhanced near-infrared quantum cutting in GdBO ₃ :Tb ³⁺ ,Yb ³⁺ phosphors by Ce ³⁺ codoping. Journal of Applied Physics, 2009, 106, .	2.5	62
56	Efficient down- and up-conversion of Pr ³⁺ ←Yb ³⁺ co-doped transparent oxyfluoride glass ceramics. Journal of Alloys and Compounds, 2012, 513, 139-144.	5.5	62
57	Novel high-brightness and thermal-stable Ca ₃ Gd(AlO) ₃ (BO ₃) ₄ :Eu ³⁺ red phosphors with high colour purity for NUV-pumped white LEDs. Dyes and Pigments, 2018, 154, 252-256.	3.7	61
58	Novel SrLaAlO ₄ :Mn ⁴⁺ deep-red emitting phosphors with excellent responsiveness to phytochrome P _{FR} for plant cultivation LEDs: synthesis, photoluminescence properties, and thermal stability. RSC Advances, 2018, 8, 30223-30229.	3.6	60
59	A novel Sm ³⁺ singly doped LiCa ₃ ZnV ₃ O ₁₂ phosphor: a potential luminescent material for multifunctional applications. RSC Advances, 2018, 8, 33403-33413.	3.6	59
60	Efficient first-order resonant near-infrared quantum cutting in β -NaYF ₄ :Ho ³⁺ ,Yb ³⁺ . Journal of Alloys and Compounds, 2011, 509, 9919-9923.	5.5	58
61	New red phosphors enable white LEDs to show both high luminous efficacy and color rendering index. Science Bulletin, 2019, 64, 879-880.	9.0	55
62	Realizing highly efficient multicolor tunable emissions from Tb ³⁺ and Eu ³⁺ co-doped CaGd ₂ (WO ₄) ₄ phosphors via energy transfer by single ultraviolet excitation for lighting and display applications. Dyes and Pigments, 2018, 151, 202-210.	3.7	54
63	ZnWO ₄ :Eu ³⁺ nanorods: A potential tunable white light-emitting phosphors. Journal of Alloys and Compounds, 2011, 509, 1355-1359.	5.5	53
64	Facile low-temperature solid-state synthesis of efficient blue-emitting Cs ₃ Cu ₂ I ₅ powder phosphors for solid-state lighting. Materials Today Chemistry, 2020, 17, 100288.	3.5	53
65	A high-efficiency, broadband-excited cyan-emitting Ba ₃ Lu ₂ B ₆ O ₁₅ :Ce ³⁺ ,Tb ³⁺ phosphor for near-UV-pumped white light-emitting diodes. Journal of Alloys and Compounds, 2019, 787, 865-871.	5.5	51
66	Filling the cyan gap toward full-visible-spectrum LED lighting with Ca ₂ LaHf ₂ Al ₃ O ₁₂ :Ce ³⁺ broadband green phosphor. Journal of Alloys and Compounds, 2020, 836, 155469.	5.5	50
67	A single-phased warm-white-emitting K ₃ Y(PO ₄) ₂ :Dy ³⁺ ,Sm ³⁺ phosphor with tuneable photoluminescence for near-UV-excited white LEDs. Dyes and Pigments, 2018, 157, 72-79.	3.7	49
68	CaYAlO ₄ :Mn ⁴⁺ ,Mg ²⁺ : An efficient far-red-emitting phosphor for indoor plant growth LEDs. Journal of Alloys and Compounds, 2019, 785, 1198-1205.	5.5	49
69	Novel high color-purity Eu ³⁺ -activated Ba ₃ Lu ₄ O ₉ red-emitting phosphors with high quantum efficiency and good thermal stability for warm white LEDs. Journal of Luminescence, 2019, 209, 156-162.	3.1	49
70	The luminescence properties of Bi ³⁺ sensitized Gd ₂ MoO ₆ :RE ³⁺ (RE = Eu or Sm) phosphors for solar spectral conversion. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 115, 767-771.	3.9	48
71	Synthesis, structural and photoluminescence properties of novel orange-red emitting Ba ₃ Y ₂ B ₆ O ₁₅ :Eu ³⁺ phosphors. Journal of Luminescence, 2019, 208, 75-81.	3.1	48
72	Cyan phosphors for full-visible-spectrum lighting: shining new light on high-CRI white pc-LEDs. Science Bulletin, 2019, 64, 1649-1651.	9.0	47

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73	Simultaneously enhanced far-red luminescence and thermal stability in Ca ₃ Al ₄ ZnO ₁₀ :Mn ⁴⁺ phosphor via Mg ²⁺ doping for plant growth lighting. <i>Journal of Alloys and Compounds</i> , 2019, 785, 312-319.	5.5	47
74	Realizing efficient upconversion and down-shifting dual-mode luminescence in lanthanide-doped NaGdF ₄ core-shell nanoparticles through gadolinium sublattice-mediated energy migration. <i>Dyes and Pigments</i> , 2016, 130, 99-105.	3.7	46
75	Single-phased white-emitting Ca ₃ Y(GaO) ₃ (BO ₃) ₄ :Ce ³⁺ ,Tb ³⁺ ,Sm ³⁺ phosphors with high-efficiency: Photoluminescence, energy transfer and application in near-UV-pumped white LEDs. <i>Journal of Luminescence</i> , 2018, 204, 410-418.	3.1	46
76	Deep-red-emitting Ca ₂ LuSbO ₆ :Mn ⁴⁺ phosphors for plant growth LEDs: Synthesis, crystal structure, and photoluminescence properties. <i>Journal of Alloys and Compounds</i> , 2019, 804, 521-526.	5.5	46
77	Achieving full-visible-spectrum LED lighting via employing an efficient Ce ³⁺ -activated cyan phosphor. <i>Materials Today Energy</i> , 2020, 17, 100448.	4.7	46
78	Synthesis and photoluminescence properties of a novel high-efficiency red-emitting Ca ₂ LuSbO ₆ :Eu ³⁺ phosphor for WLEDs. <i>Journal of Luminescence</i> , 2019, 214, 116605.	3.1	44
79	High-efficiency cubic-phased blue-emitting Ba ₃ Lu ₂ B ₆ O ₁₅ :Ce ³⁺ phosphors for ultraviolet-excited white-light-emitting diodes. <i>Optics Letters</i> , 2018, 43, 5138.	3.3	44
80	Cyan-emitting Ba ₃ Y ₂ B ₆ O ₁₅ :Ce ³⁺ ,Tb ³⁺ phosphor: A potential color converter for near-UV-excited white LEDs. <i>Journal of Luminescence</i> , 2019, 211, 388-393.	3.1	43
81	Gd ₂ (MoO ₄) ₃ :Er ³⁺ Nanophosphors for an Enhancement of Silicon Solar-Cell Near-Infrared Response. <i>Journal of Fluorescence</i> , 2009, 19, 285-289.	2.5	42
82	Synthesis and photoluminescence properties of a new blue-light-excitable red phosphor Ca ₂ LaTaO ₆ :Eu ³⁺ for white LEDs. <i>Journal of Luminescence</i> , 2020, 222, 117173.	3.1	42
83	Efficient near-infrared down conversion in Zn ₂ SiO ₄ :Tb ³⁺ ,Yb ³⁺ thin-films. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	41
84	Synthesis and photoluminescence characteristics of high color purity Ba ₃ Y ₄ O ₉ :Eu ³⁺ red-emitting phosphors with excellent thermal stability for warm W-LED application. <i>RSC Advances</i> , 2018, 8, 32111-32118.	3.6	41
85	Novel Mn ⁴⁺ doped Ca ₂ GdSbO ₆ red-emitting phosphor: A potential color converter for light-emitting diodes. <i>Journal of the American Ceramic Society</i> , 2019, 102, 4730-4736.	3.8	41
86	Thermally stable La ₂ LiSbO ₆ :Mn ⁴⁺ ,Mg ²⁺ far-red emitting phosphors with over 90% internal quantum efficiency for plant growth LEDs. <i>RSC Advances</i> , 2018, 8, 31835-31842.	3.6	40
87	Synthesis, Crystal Structure, and Photoluminescence Characteristics of High-Efficiency Deep-Red Emitting Ba ₂ GdTao ₆ :Mn ⁴⁺ Phosphors. <i>ACS Omega</i> , 2019, 4, 13474-13480.	3.5	40
88	Ca ₃ Lu(GaO) ₃ (BO ₃) ₄ :Eu ³⁺ : A novel high-brightness and thermal-stable red-emitting phosphor for white LEDs. <i>Journal of Luminescence</i> , 2018, 202, 403-408.	3.1	38
89	Crystal structure, photoluminescence properties and thermal stability of BaLu ₂ Si ₃ O ₁₀ :Eu ³⁺ red-emitting phosphors with high color purity for near-UV-excited white LEDs. <i>Journal of Luminescence</i> , 2019, 215, 116623.	3.1	38
90	Novel Ca ₂ GdTao ₆ :Mn ⁴⁺ ,M (M = Li ⁺ , Na ⁺ , K ⁺ , and Mg ²⁺) red phosphors for plant cultivation light-emitting diodes: Synthesis and luminescence properties. <i>Journal of Luminescence</i> , 2019, 214, 116525.	3.1	38

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91	Bright tunable white-light emissions from Bi ³⁺ /Eu ³⁺ co-doped Ba ₂ Y ₅ B ₅ O ₁₇ phosphors via energy transfer for UV-excited white light-emitting diodes. <i>Journal of Luminescence</i> , 2020, 226, 117474.	3.1	38
92	Synthesis and photoluminescence properties of Eu ³⁺ -activated LiCa ₃ ZnV ₃ O ₁₂ white-emitting phosphors. <i>RSC Advances</i> , 2018, 8, 17132-17138.	3.6	37
93	High-efficiency and thermal-stable tunable blue-green-emitting Ca ₃ Lu(AlO) ₃ (BO ₃) ₄ :Ce ³⁺ ,Tb ³⁺ phosphors for near-UV-excited white LEDs. <i>Dyes and Pigments</i> , 2018, 157, 314-320.	3.7	37
94	Three-photon near-infrared quantum splitting in λ^2 -NaYF ₄ :Ho ³⁺ . <i>Applied Physics Letters</i> , 2011, 99, .	3.3	36
95	Tuning the size and upconversion luminescence of NaYbF ₄ :Er ³⁺ /Tm ³⁺ nanoparticles through Y ³⁺ or Gd ³⁺ doping. <i>Optical Materials Express</i> , 2016, 6, 2165.	3.0	36
96	Novel efficient deep-red-emitting Ca ₂ LuTaO ₆ :Mn ⁴⁺ double-perovskite phosphors for plant growth LEDs. <i>Journal of Luminescence</i> , 2020, 222, 117177.	3.1	36
97	Mn ⁴⁺ -activated BaLaMgSbO ₆ double-perovskite phosphor: a novel high-efficiency far-red-emitting luminescent material for indoor plant growth lighting. <i>RSC Advances</i> , 2019, 9, 3303-3310.	3.6	34
98	Enhancement of near-infrared to near-infrared upconversion luminescence in sub-10-nm ultra-small LaF ₃ :Yb ³⁺ /Tm ³⁺ nanoparticles through lanthanide doping. <i>Optics Letters</i> , 2015, 40, 5231.	3.3	33
99	Novel far-red-emitting SrGdAlO ₄ :Mn ⁴⁺ phosphors with excellent responsiveness to phytochrome P _{FR} for plant growth lighting. <i>RSC Advances</i> , 2018, 8, 39307-39313.	3.6	33
100	Ce ³⁺ -activated CaSr ₂ Al ₂ O ₆ green-emitting phosphors: Potential application as color converter for warm WLEDs. <i>Journal of Luminescence</i> , 2019, 206, 571-577.	3.1	33
101	Preparation, crystal structure, and photoluminescence properties of high-brightness red-emitting Ca ₂ LuNbO ₆ :Eu ³⁺ double-perovskite phosphors for high-CRI warm-white LEDs. <i>Journal of Luminescence</i> , 2020, 225, 117373.	3.1	33
102	Eu ³⁺ -activated Ca ₂ YTaO ₆ double-perovskite compound: A novel highly efficient red-emitting phosphor for near-UV-excited warm w-LEDs. <i>Journal of Luminescence</i> , 2020, 226, 117408.	3.1	33
103	Synthesis, multicolour tuning, and emission enhancement of ultrasmall LaF ₃ :Yb ³⁺ /Ln ³⁺ (Ln=Er, Tm, and) Tj ETQq1,1 0.784314 rgB	3.7	29
104	Ce ³⁺ and Tb ³⁺ doped Ca ₃ Gd(AlO) ₃ (BO ₃) ₄ phosphors: synthesis, tunable photoluminescence, thermal stability, and potential application in white LEDs. <i>RSC Advances</i> , 2018, 8, 9879-9886.	3.6	29
105	Optical properties of deep-red-emitting Ca ₂ YTaO ₆ :Mn ⁴⁺ phosphors for LEDs applications. <i>Optics and Laser Technology</i> , 2020, 130, 106349.	4.6	29
106	Bright red luminescence from Mn ⁴⁺ ions doped Sr ₂ LuTaO ₆ double-perovskite phosphors. <i>Journal of Luminescence</i> , 2021, 233, 117901.	3.1	29
107	High-brightness cyan-emitting Eu ²⁺ -activated orthophosphate phosphors for near-UV-pumped white LEDs. <i>Journal of Luminescence</i> , 2022, 243, 118640.	3.1	27
108	Efficient near-infrared quantum splitting in YVO ₄ :Ho ³⁺ for photovoltaics. <i>Solar Energy Materials and Solar Cells</i> , 2012, 101, 303-307.	6.2	26

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109	Novel Eu ³⁺ -activated Ba ₂ Y ₅ B ₅ O ₁₇ red-emitting phosphors for white LEDs: high color purity, high quantum efficiency and excellent thermal stability. RSC Advances, 2018, 8, 23323-23331.	3.6	25
110	Synthesis, energy transfer and photoluminescence properties of thermal-stable multicolour-emitting Ca ₃ Gd(AlO) ₃ (BO ₃) ₄ :Tb ³⁺ ,Eu ³⁺ phosphors. Journal of Luminescence, 2018, 204, 386-393.	3.1	25
111	Novel high-efficiency violet-red dual-emitting Lu ₂ GeO ₅ : Bi ³⁺ , Eu ³⁺ phosphors for indoor plant growth lighting. Journal of Luminescence, 2019, 214, 116544.	3.1	24
112	Preparation and photoluminescence properties of novel Mn ⁴⁺ doped Li ₃ Mg ₂ TaO ₆ red-emitting phosphors. Inorganic Chemistry Communication, 2020, 116, 107903.	3.9	24
113	Using an excellent near-UV-excited cyan-emitting phosphor for enhancing the color rendering index of warm-white LEDs by filling the cyan gap. Materials Today Chemistry, 2021, 20, 100471.	3.5	23
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