

Xiaoyong Huang

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#	Paper	IF	Citations
152	Enhancing solar cell efficiency: the search for luminescent materials as spectral converters. <i>Chemical Society Reviews</i> , 2013 , 42, 173-201	58.5	1257
151	Recent progress in quantum cutting phosphors. <i>Progress in Materials Science</i> , 2010 , 55, 353-427	42.2	487
150	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	14.7	275
149	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	4.6	199
148	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	5.7	191
147	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	5.7	179
146	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	4.6	177
145	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	4.6	166
144	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	5.7	146
143	High-brightness and high-color purity red-emitting CaLu(AlO)(BO):Eu phosphors with internal quantum efficiency close to unity for near-ultraviolet-based white-light-emitting diodes. <i>Optics Letters</i> , 2018 , 43, 1307-1310	3	136
142	Broadband dye-sensitized upconversion: A promising new platform for future solar upconverter design. <i>Journal of Alloys and Compounds</i> , 2017 , 690, 356-359	5.7	131
141	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	4.6	123
140	Ultrafast synthesis of bifunctional Er/Yb-codoped NaBiF ₄ upconverting nanoparticles for nanothermometer and optical heater. <i>Journal of Colloid and Interface Science</i> , 2018 , 514, 172-181	9.3	122
139	High-efficiency and thermally stable far-red-emitting NaLaMgWO ₄ :Mn phosphors for indoor plant growth light-emitting diodes. <i>Optics Letters</i> , 2018 , 43, 3305-3308	3	119
138	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	7.1	113
137	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	6.8	105
136	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	7.1	99

135	Full-visible-spectrum lighting enabled by an excellent cyan-emitting garnet phosphor. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 4934-4943	7.1	95
134	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	5.1	91
133	Spectral conversion for solar cell efficiency enhancement using YVO ₄ :Bi ³⁺ ,Ln ³⁺ (Ln = Dy, Er, Ho, Eu, Sm, and Yb) phosphors. <i>Journal of Applied Physics</i> , 2011 , 109, 113526	2.5	87
132	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	7.1	84
131	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	4.6	82
130	Novel Mn-activated LiLaMgWO 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	2.7	82
129	Broadband Downconversion of Ultraviolet Light to Near-Infrared Emission in Bi ³⁺ -Tb ³⁺ -Codoped Y ₂ O ₃ Phosphors. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 833-837	3.8	82
128	Free-standing ZnO-CuO composite nanowire array films and their gas sensing properties. <i>Nanotechnology</i> , 2011 , 22, 325704	3.4	78
127	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	3.8	77
126	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	4.6	76
125	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	5.1	76
124	Highly efficient near-UV-excitable Ca ₂ YHf ₂ Al 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	7.1	74
123	Concentration-dependent near-infrared quantum cutting in NaYF ₄ :Pr ³⁺ , Yb ³⁺ phosphor. <i>Journal of Applied Physics</i> , 2009 , 106, 063518	2.5	71
122	Synthesis and photoluminescence properties of novel far-red-emitting BaLaMgNbO:Mn phosphors for plant growth LEDs.. <i>RSC Advances</i> , 2018 , 8, 28538-28545	3.7	70
121	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, 063505	2.5	70
120	Enhanced electromagnetic absorbing performance of MOF-derived Ni/NiO/Cu@C composites. <i>Composites Part B: Engineering</i> , 2019 , 164, 583-589	10	63
119	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, 3599-602	3	62
118	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	14.7	61

117	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	7.1	60
116	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	5.7	59
115	Enhanced near-infrared quantum cutting in GdBO ₃ :Tb ³⁺ ,Yb ³⁺ phosphors by Ce ³⁺ codoping. <i>Journal of Applied Physics</i> , 2009 , 106, 113521	2.5	58
114	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	4.6	57
113	LiCa ₃ MgV ₃ O ₁₂ :Sm ³⁺ : A new high-efficiency white-emitting phosphor. <i>Ceramics International</i> , 2018 , 44, 10340-10344	5.1	57
112	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	5.7	57
111	Efficient down- and up-conversion of Pr ³⁺ /Yb ³⁺ co-doped transparent oxyfluoride glass ceramics. <i>Journal of Alloys and Compounds</i> , 2012 , 513, 139-144	5.7	57
110	Novel SrMgLaWO:Mn 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	3.7	56
109	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	5.1	54
108	Efficient first-order resonant near-infrared quantum cutting in NaYF ₄ :Ho ³⁺ ,Yb ³⁺ . <i>Journal of Alloys and Compounds</i> , 2011 , 509, 9919-9923	5.7	52
107	ZnWO ₄ :Eu ³⁺ nanorods: A potential tunable white light-emitting phosphors. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 1355-1359	5.7	51
106	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. <i>Dyes and Pigments</i> , 2018 , 154, 252-256	4.6	50
105	Utilization of the internal electric field in semiconductor photocatalysis: A short review. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 72, 18-30	6.3	48
104	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	3.8	48
103	Far-red-emitting double-perovskite CaLaMgSbO:Mn phosphors with high photoluminescence efficiency and thermal stability for indoor plant cultivation LEDs.. <i>RSC Advances</i> , 2018 , 8, 31666-31672	3.7	48
102	Recent progress in black phosphorus nanostructures as environmental photocatalysts. <i>Chemical Engineering Journal</i> , 2020 , 379, 122297	14.7	45
101	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	4.6	44
100	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. <i>Dyes and Pigments</i> , 2018 , 151, 202-210	4.6	42

99	Mn-activated LiMgSbO as an ultrabright fluoride-free red-emitting phosphor for warm white light-emitting diodes.. <i>RSC Advances</i> , 2019 , 9, 3429-3435	3.7	41
98	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, 285-9	2.4	41
97	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. <i>Journal of Alloys and Compounds</i> , 2019 , 787, 865-871	5.7	41
96	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	3.8	40
95	Novel highly efficient and thermally stable Ca ₂ GdTaO 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	5.7	40
94	The luminescence properties of Bi(3+) sensitized Gd ₂ MoO ₆ :RE(3+) (RE=Eu or Sm) phosphors for solar spectral conversion. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013 , 115, 767-71	4.4	39
93	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	3.8	38
92	Bio-inspired carbon doped graphitic carbon nitride with booming photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2019 , 246, 61-71	21.8	38
91	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	5.7	37
90	New red phosphors enable white LEDs to show both high luminous efficacy and color rendering index. <i>Science Bulletin</i> , 2019 , 64, 879-880	10.6	37
89	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	5.7	37
88	Efficient near-infrared down conversion in Zn ₂ SiO ₄ :Tb ³⁺ ,Yb ³⁺ thin-films. <i>Journal of Applied Physics</i> , 2009 , 105, 053521	2.5	36
87	High-efficiency cubic-phased blue-emitting BaLuBO:Ce phosphors for ultraviolet-excited white-light-emitting diodes. <i>Optics Letters</i> , 2018 , 43, 5138-5141	3	36
86	Three-photon near-infrared quantum splitting in NaYF ₄ :Ho ³⁺ . <i>Applied Physics Letters</i> , 2011 , 99, 161904	3.4	35
85	A novel Sm singly doped LiCaZnVO phosphor: a potential luminescent material for multifunctional applications.. <i>RSC Advances</i> , 2018 , 8, 33403-33413	3.7	35
84	CaYAlO ₄ :Mn ⁴⁺ ,Mg ²⁺ : An efficient far-red-emitting phosphor for indoor plant growth LEDs. <i>Journal of Alloys and Compounds</i> , 2019 , 785, 1198-1205	5.7	34
83	Novel SrLaAlO:Mn deep-red emitting phosphors with excellent responsiveness to phytochrome P for plant cultivation LEDs: synthesis, photoluminescence properties, and thermal stability.. <i>RSC Advances</i> , 2018 , 8, 30223-30229	3.7	34
82	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	3.8	34

81	Synthesis, structural and photoluminescence properties of novel orange-red emitting Ba ₃ Y ₂ B ₆ O ₁₅ :Eu ³⁺ phosphors. <i>Journal of Luminescence</i> , 2019 , 208, 75-81	3.8	34
80	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. <i>Journal of Luminescence</i> , 2019 , 209, 156-162	3.8	33
79	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	3.8	32
78	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	2.6	32
77	Facile low-temperature solid-state synthesis of efficient blue-emitting Cs ₃ Cu ₂ I ₅ powder phosphors for solid-state lighting. <i>Materials Today Chemistry</i> , 2020 , 17, 100288	6.2	32
76	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	3.8	31
75	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. <i>Dyes and Pigments</i> , 2018 , 157, 72-79	4.6	31
74	Synthesis and photoluminescence properties of Eu-activated LiCaZnVO white-emitting phosphors.. <i>RSC Advances</i> , 2018 , 8, 17132-17138	3.7	31
73	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	3.8	31
72	Achieving full-visible-spectrum LED lighting via employing an efficient Ce ³⁺ -activated cyan phosphor. <i>Materials Today Energy</i> , 2020 , 17, 100448	7	29
71	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, 5231-4	3	29
70	Mn-activated BaLaMgSbO 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	3.7	27
69	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	27
68	Ce and Tb doped CaGd(AlO)(BO) phosphors: synthesis, tunable photoluminescence, thermal stability, and potential application in white LEDs.. <i>RSC Advances</i> , 2018 , 8, 9879-9886	3.7	26
67	Synthesis, multicolour tuning, and emission enhancement of ultrasmall LaF ₃ :Yb ³⁺ /Ln ³⁺ (Ln = Er, Tm, and Ho) upconversion nanoparticles. <i>Journal of Materials Science</i> , 2016 , 51, 3490-3499	4.3	26
66	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	5.7	26
65	Filling the cyan gap toward full-visible-spectrum LED lighting with Ca ₂ LaHf ₂ Al ₃ O ₁₂ :Ce ³⁺ broadband green phosphor. <i>Journal of Alloys and Compounds</i> , 2020 , 836, 155469	5.7	26
64	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	4.6	25

63	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	3.8	25
62	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, 116523 ^{3,8}	3.8	24
61	Cyan phosphors for full-visible-spectrum lighting: shining new light on high-CRI white pc-LEDs. <i>Science Bulletin</i> , 2019 , 64, 1649-1651	10.6	24
60	Synthesis and photoluminescence characteristics of high color purity BaYO:Eu red-emitting phosphors with excellent thermal stability for warm W-LED application.. <i>RSC Advances</i> , 2018 , 8, 32111-32118 ^{3,7}	3.7	24
59	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	3.8	23
58	Thermally stable LaLiSbO:Mn,Mg far-red emitting phosphors with over 90% internal quantum efficiency for plant growth LEDs.. <i>RSC Advances</i> , 2018 , 8, 31835-31842	3.7	23
57	Efficient near-infrared quantum splitting in YVO ₄ :Ho ³⁺ for photovoltaics. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 101, 303-307	6.4	22
56	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	3.8	21
55	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	3.8	21
54	Synthesis, Crystal Structure, and Photoluminescence Characteristics of High-Efficiency Deep-Red Emitting BaGdTaO:Mn Phosphors. <i>ACS Omega</i> , 2019 , 4, 13474-13480	3.9	21
53	Synthesis, energy transfer and photoluminescence properties of thermal-stable multicolour-emitting Ca ₃ Gd(AlO) ₃ (BO ₃) ₄ :Tb ³⁺ ,Eu ³⁺ phosphors. <i>Journal of Luminescence</i> , 2018 , 204, 386-393	3.8	20
52	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	3.8	20
51	Novel far-red-emitting SrGdAlO:Mn phosphors with excellent responsiveness to phytochrome P for plant growth lighting.. <i>RSC Advances</i> , 2018 , 8, 39307-39313	3.7	20
50	Novel high-efficiency violet-red dual-emitting Lu ₂ GeO ₅ : Bi ³⁺ , Eu ³⁺ phosphors for indoor plant growth lighting. <i>Journal of Luminescence</i> , 2019 , 214, 116544	3.8	17
49	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	4.2	17
48	Enhanced three-photon near-infrared quantum splitting in ENaYF ₄ :Ho ³⁺ by codoping Yb ³⁺ . <i>AIP Advances</i> , 2012 , 2, 022124	1.5	17
47	Ultrabroadband sensitization of near infrared emission through energy transfer from Pb to Yb ions in LiYbMo ₂ O ₈ :Pb. <i>Journal of Applied Physics</i> , 2010 , 108, 083528	2.5	16
46	Homogeneous core-shell structure stabilizes Mn ⁴⁺ -doped fluoride red phosphors for high-performance warm-white LEDs. <i>Science China Materials</i> , 2019 , 62, 1934-1935	7.1	15

45	Novel high color purity and thermally stable Eu ³⁺ ions activated Ba ₂ Gd ₅ B ₅ O ₁₇ red emitting phosphor for near-UV based WLEDs. <i>Optical Materials</i> , 2018 , 84, 312-317	3.3	15
44	Photoluminescence properties of a novel rare-earth-free red-emitting Ca ₃ Y(AlO) ₃ (BO ₃) ₄ :Mn ⁴⁺ phosphor for white LEDs application. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 12972-12977	3.7	15
43	A sequential two-step near-infrared quantum splitting in Ho ³⁺ singly doped NaYF ₄ . <i>AIP Advances</i> , 2011 , 1, 042161	1.5	15
42	Preparation, characterization, and luminescence properties of double perovskite SrLaMgSbO:Mn far-red emitting phosphors for indoor plant growth lighting.. <i>RSC Advances</i> , 2018 , 8, 35187-35194	3.7	15
41	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	3.8	14
40	A novel efficient Mn ⁴⁺ -activated Ba ₂ YTaO ₆ far-red emitting phosphor for plant cultivation LEDs: Preparation and photoluminescence properties. <i>Journal of Luminescence</i> , 2020 , 228, 117621	3.8	14
39	Bright cyan-to-green color-tunable emissions from Ce ³⁺ /Tb ³⁺ co-activated garnet phosphors for high-color-quality solid-state lighting. <i>Materials Today Energy</i> , 2020 , 17, 100487	7	14
38	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	3.8	13
37	Preparation and photoluminescence properties of novel Mn ⁴⁺ doped Li ₃ Mg ₂ TaO ₆ red-emitting phosphors. <i>Inorganic Chemistry Communication</i> , 2020 , 116, 107903	3.1	13
36	Realizing bright blue-red color-tunable emissions from Gd ₂ GeO ₅ :Bi ³⁺ ,Eu ³⁺ phosphors through energy transfer toward light-emitting diodes. <i>Journal of Luminescence</i> , 2020 , 222, 117127	3.8	13
35	Novel Eu-activated BaYBO red-emitting phosphors for white LEDs: high color purity, high quantum efficiency and excellent thermal stability.. <i>RSC Advances</i> , 2018 , 8, 23323-23331	3.7	13
34	Synthesis and characterization of CaLu(GaO)(BO):Ce,Tb phosphors: tunable-color emissions, energy transfer, and thermal stability.. <i>RSC Advances</i> , 2018 , 8, 23284-23293	3.7	12
33	Efficient green-emitting Ca ₂ GdZr ₂ Al ₃ O ₁₂ :Ce ³⁺ ,Tb ³⁺ phosphors for near-UV-pumped high-CRI warm-white LEDs. <i>Journal of Luminescence</i> , 2020 , 220, 117012	3.8	12
32	Bright red luminescence from Mn ⁴⁺ ions doped Sr ₂ LuTaO ₆ double-perovskite phosphors. <i>Journal of Luminescence</i> , 2021 , 233, 117901	3.8	11
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30	KF-mediated controlled-synthesis of potassium ytterbium fluorides (doped with Er ³⁺) with phase-dependent upconversion luminescence. <i>CrystEngComm</i> , 2015 , 17, 7182-7190	3.3	10
29	Ethylene glycol assisted rapid preparation of NaEuF ₄ nanorods with splendid thermal stability for indoor illumination and optical displays. <i>Dyes and Pigments</i> , 2018 , 153, 307-315	4.6	10
28	Novel high-efficiency Eu-activated NaGdBO red-emitting phosphors with high color purity.. <i>RSC Advances</i> , 2018 , 8, 32948-32955	3.7	10

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24	Finding an efficient far-red-emitting $\text{CaMg}_2\text{La}_2\text{W}_2\text{O}_{12}\text{:Mn}^{4+}$ phosphor toward indoor plant cultivation LED lighting. <i>Materials Today Chemistry</i> , 2021 , 21, 100512	6.2	8
23	$\text{KCa}_2\text{Mg}_2\text{V}_3\text{O}_{12}$: A novel efficient rare-earth-free self-activated yellow-emitting phosphor. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020 , 401, 112765	4.7	7
22	Synthesis and photoluminescence properties of near-UV-excitable cyan-emitting $\text{Ca}_2\text{YHf}_2\text{Ga}_3\text{O}_{12}\text{:Ce}^{3+}$ garnet phosphors. <i>Journal of Luminescence</i> , 2020 , 227, 117544	3.8	7
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11	Full-Spectrum White Light-Emitting Diodes Enabled by an Efficient Broadband Green-Emitting CaYZrScAlO:Ce Garnet Phosphor. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	4
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7	Finding a single lanthanide ion through upconversion. <i>ChemPhysChem</i> , 2012 , 13, 4095-7	3.2	2
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