

# Xiaoyong Huang

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

152  
papers

8,605  
citations

48  
h-index

88  
g-index

156  
ext. papers

9,976  
ext. citations

5.6  
avg, IF

7.36  
L-index

#	Paper	IF	Citations
152	Full-Spectrum White Light-Emitting Diodes Enabled by an Efficient Broadband Green-Emitting CaYZrScAlO:Ce Garnet Phosphor.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2022</b> ,	9.5	4
151	An energy transfer strategy for highly luminescent green-emitting Ce <sup>3+</sup> /Tb <sup>3+</sup> codoped Ca <sub>2</sub> LaHf <sub>2</sub> Al <sub>3</sub> O <sub>12</sub> garnet phosphors in white light-emitting diodes. <i>Materials Today Chemistry</i> , <b>2022</b> , 24, 100773	6.2	0
150	Blue-light-excitable broadband yellow-emitting CaGd <sub>2</sub> HfSc(AlO <sub>4</sub> ) <sub>3</sub> :Ce <sup>3+</sup> garnet phosphors for white light-emitting diode devices with improved color rendering index. <i>Materials Today Chemistry</i> , <b>2022</b> , 23, 100638	6.2	1
149	High-brightness cyan-emitting Eu <sup>2+</sup> -activated orthophosphate phosphors for near-UV-pumped white LEDs. <i>Journal of Luminescence</i> , <b>2022</b> , 243, 118640	3.8	3
148	One-step low-temperature solid-state synthesis of lead-free cesium copper halide Cs <sub>3</sub> Cu <sub>2</sub> Br <sub>5</sub> phosphors with bright blue emissions. <i>Materials Today Chemistry</i> , <b>2022</b> , 23, 100678	6.2	0
147	Full-spectrum solid-state white lighting with high color rendering index exceeding 96 based on a bright broadband green-emitting phosphor. <i>Applied Materials Today</i> , <b>2022</b> , 27, 101439	6.6	
146	Synthesis, crystal structure and photoluminescence properties of novel far-red-emitting SrLaZnSbO <sub>6</sub> :Mn <sup>4+</sup> double-perovskite phosphors for plant cultivation LEDs. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2021</b> , 410, 113166	4.7	7
145	Bright red luminescence from Mn <sup>4+</sup> ions doped Sr <sub>2</sub> LuTaO <sub>6</sub> double-perovskite phosphors. <i>Journal of Luminescence</i> , <b>2021</b> , 233, 117901	3.8	11
144	Using an excellent near-UV-excited cyan-emitting phosphor for enhancing the color rendering index of warm-white LEDs by filling the cyan gap. <i>Materials Today Chemistry</i> , <b>2021</b> , 20, 100471	6.2	8
143	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> , <b>2021</b> , 405, 126950	14.7	61
142	Synthesis, crystal structure and photoluminescence properties of high-color-purity red-emitting SrLu <sub>2</sub> O <sub>4</sub> :Eu <sup>3+</sup> phosphors with excellent thermal stability. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2021</b> , 404, 112908	4.7	7
141	Energy transfer induced color-tunable emissions from Ba <sub>2</sub> Gd <sub>5</sub> B <sub>5</sub> O <sub>17</sub> :Ce <sup>3+</sup> /Tb <sup>3+</sup> borate phosphors for white LEDs. <i>Journal of Luminescence</i> , <b>2021</b> , 229, 117685	3.8	7
140	Finding an efficient far-red-emitting CaMg <sub>2</sub> La <sub>2</sub> W <sub>2</sub> O <sub>12</sub> :Mn <sup>4+</sup> phosphor toward indoor plant cultivation LED lighting. <i>Materials Today Chemistry</i> , <b>2021</b> , 21, 100512	6.2	8
139	Novel Ba <sub>3</sub> Lu <sub>4</sub> O <sub>9</sub> :Bi <sup>3+</sup> ,Eu <sup>3+</sup> phosphors for white LEDs: Efficient energy transfer, broad near-UV excitation band and green-yellow-orange-red color tunable emissions. <i>Journal of Luminescence</i> , <b>2021</b> , 238, 118291	3.8	1
138	Utilizing energy transfer strategy to produce efficient green luminescence in CaLuHfAlO:Ce,Tb garnet phosphors for high-quality near-UV-pumped warm-white LEDs. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 601, 365-377	9.3	6
137	Emerging high-power NIR-emitting phosphor-converted LEDs. <i>Green Energy and Environment</i> , <b>2020</b> , 6, 617-617	5.7	0
136	Preparation, crystal structure, and photoluminescence properties of high-brightness red-emitting Ca <sub>2</sub> LuNbO <sub>6</sub> :Eu <sup>3+</sup> double-perovskite phosphors for high-CRI warm-white LEDs. <i>Journal of Luminescence</i> , <b>2020</b> , 225, 117373	3.8	13

135	Eu <sup>3+</sup> -activated Ca <sub>2</sub> YTaO <sub>6</sub> double-perovskite compound: A novel highly efficient red-emitting phosphor for near-UV-excited warm w-LEDs. <i>Journal of Luminescence</i> , <b>2020</b> , 226, 117408	3.8	14
134	Optical properties of deep-red-emitting Ca <sub>2</sub> YTaO <sub>6</sub> :Mn <sup>4+</sup> phosphors for LEDs applications. <i>Optics and Laser Technology</i> , <b>2020</b> , 130, 106349	4.2	17
133	Bright tunable white-light emissions from Bi <sup>3+</sup> /Eu <sup>3+</sup> co-doped Ba <sub>2</sub> Y <sub>5</sub> B <sub>5</sub> O <sub>17</sub> phosphors via energy transfer for UV-excited white light-emitting diodes. <i>Journal of Luminescence</i> , <b>2020</b> , 226, 117474	3.8	23
132	Achieving full-visible-spectrum LED lighting via employing an efficient Ce <sup>3+</sup> -activated cyan phosphor. <i>Materials Today Energy</i> , <b>2020</b> , 17, 100448	7	29
131	Novel efficient deep-red-emitting Ca <sub>2</sub> LuTaO <sub>6</sub> :Mn <sup>4+</sup> double-perovskite phosphors for plant growth LEDs. <i>Journal of Luminescence</i> , <b>2020</b> , 222, 117177	3.8	21
130	Preparation and photoluminescence properties of novel Mn <sup>4+</sup> doped Li <sub>3</sub> Mg <sub>2</sub> TaO <sub>6</sub> red-emitting phosphors. <i>Inorganic Chemistry Communication</i> , <b>2020</b> , 116, 107903	3.1	13
129	Synthesis and photoluminescence properties of a new blue-light-excitable red phosphor Ca <sub>2</sub> LaTaO <sub>6</sub> :Eu <sup>3+</sup> for white LEDs. <i>Journal of Luminescence</i> , <b>2020</b> , 222, 117173	3.8	21
128	Full-visible-spectrum lighting enabled by an excellent cyan-emitting garnet phosphor. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 4934-4943	7.1	95
127	Realizing bright blue-red color-tunable emissions from Gd <sub>2</sub> GeO <sub>5</sub> :Bi <sup>3+</sup> ,Eu <sup>3+</sup> phosphors through energy transfer toward light-emitting diodes. <i>Journal of Luminescence</i> , <b>2020</b> , 222, 117127	3.8	13
126	Highly efficient near-UV-excitable Ca <sub>2</sub> YHf <sub>2</sub> Al <sub>3</sub> O <sub>12</sub> :Ce <sup>3+</sup> ,Tb <sup>3+</sup> green-emitting garnet phosphors with potential application in high color rendering warm-white LEDs. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 4408-4420	7.1	74
125	Novel highly luminescent double-perovskite Ca <sub>2</sub> GdSbO <sub>6</sub> :Eu <sup>3+</sup> red phosphors with high color purity for white LEDs: Synthesis, crystal structure, and photoluminescence properties. <i>Journal of Luminescence</i> , <b>2020</b> , 221, 117105	3.8	32
124	Filling the cyan gap toward full-visible-spectrum LED lighting with Ca <sub>2</sub> LaHf <sub>2</sub> Al <sub>3</sub> O <sub>12</sub> :Ce <sup>3+</sup> broadband green phosphor. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 836, 155469	5.7	26
123	Facile low-temperature solid-state synthesis of efficient blue-emitting Cs <sub>3</sub> Cu <sub>2</sub> I <sub>5</sub> powder phosphors for solid-state lighting. <i>Materials Today Chemistry</i> , <b>2020</b> , 17, 100288	6.2	32
122	High-throughput DFT screening enables the discovery of a super-broadband white-emitting phosphor for high-CRI white LEDs. <i>Science China Materials</i> , <b>2020</b> , 63, 325-326	7.1	4
121	A broadband cyan-emitting Ca <sub>2</sub> LuZr <sub>2</sub> (AlO <sub>4</sub> ) <sub>3</sub> :Ce <sup>3+</sup> garnet phosphor for near-ultraviolet-pumped warm-white light-emitting diodes with an improved color rendering index. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 1095-1103	7.1	113
120	Efficient green-emitting Ca <sub>2</sub> GdZr <sub>2</sub> Al <sub>3</sub> O <sub>12</sub> :Ce <sup>3+</sup> ,Tb <sup>3+</sup> phosphors for near-UV-pumped high-CRI warm-white LEDs. <i>Journal of Luminescence</i> , <b>2020</b> , 220, 117012	3.8	12
119	A novel efficient Mn <sup>4+</sup> -activated Ba <sub>2</sub> YTaO <sub>6</sub> far-red emitting phosphor for plant cultivation LEDs: Preparation and photoluminescence properties. <i>Journal of Luminescence</i> , <b>2020</b> , 228, 117621	3.8	14
118	KCa <sub>2</sub> Mg <sub>2</sub> V <sub>3</sub> O <sub>12</sub> : A novel efficient rare-earth-free self-activated yellow-emitting phosphor. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2020</b> , 401, 112765	4.7	7

117	Bright cyan-to-green color-tunable emissions from Ce <sup>3+</sup> /Tb <sup>3+</sup> co-activated garnet phosphors for high-color-quality solid-state lighting. <i>Materials Today Energy</i> , <b>2020</b> , 17, 100487	7	14
116	Synthesis and photoluminescence properties of near-UV-excitable cyan-emitting Ca <sub>2</sub> YHf <sub>2</sub> Ga <sub>3</sub> O <sub>12</sub> :Ce <sup>3+</sup> garnet phosphors. <i>Journal of Luminescence</i> , <b>2020</b> , 227, 117544	3.8	7
115	Full-color persistent luminescence tuning: A marriage of perovskite quantum dots and lanthanide ions. <i>Science China Materials</i> , <b>2020</b> , 63, 165-166	7.1	5
114	Recent progress in black phosphorus nanostructures as environmental photocatalysts. <i>Chemical Engineering Journal</i> , <b>2020</b> , 379, 122297	14.7	45
113	Synthesis and photoluminescence properties of novel red-emitting K <sub>2</sub> BaLu(MoO <sub>4</sub> ) <sub>3</sub> :Eu <sup>3+</sup> phosphors with high thermal stability and high color purity. <i>Inorganic Chemistry Communication</i> , <b>2020</b> , 116, 107938	3.1	8
112	Utilization of the internal electric field in semiconductor photocatalysis: A short review. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2019</b> , 72, 18-30	6.3	48
111	Realizing efficient ultraviolet emission from Er <sup>3+</sup> -sensitized upconversion nanoparticles under 1550 nm excitation. <i>Science Bulletin</i> , <b>2019</b> , 64, 1295-1297	10.6	3
110	Homogeneous core-shell structure stabilizes Mn <sup>4+</sup> -doped fluoride red phosphors for high-performance warm-white LEDs. <i>Science China Materials</i> , <b>2019</b> , 62, 1934-1935	7.1	15
109	Multifunctional Zn-Al layered double hydroxides for surface-enhanced Raman scattering and surface-enhanced infrared absorption. <i>Dalton Transactions</i> , <b>2019</b> , 48, 426-434	4.3	9
108	CaYAlO <sub>4</sub> :Mn <sup>4+</sup> ,Mg <sup>2+</sup> : An efficient far-red-emitting phosphor for indoor plant growth LEDs. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 785, 1198-1205	5.7	34
107	Novel high color-purity Eu <sup>3+</sup> -activated Ba <sub>3</sub> Lu <sub>4</sub> O <sub>9</sub> red-emitting phosphors with high quantum efficiency and good thermal stability for warm white LEDs. <i>Journal of Luminescence</i> , <b>2019</b> , 209, 156-162	3.8	33
106	Mn-activated BaLaMgSbO double-perovskite phosphor: a novel high-efficiency far-red-emitting luminescent material for indoor plant growth lighting.. <i>RSC Advances</i> , <b>2019</b> , 9, 3303-3310	3.7	27
105	Enhanced electromagnetic absorbing performance of MOF-derived Ni/NiO/Cu@C composites. <i>Composites Part B: Engineering</i> , <b>2019</b> , 164, 583-589	10	63
104	Mn-activated LiMgSbO as an ultrabright fluoride-free red-emitting phosphor for warm white light-emitting diodes.. <i>RSC Advances</i> , <b>2019</b> , 9, 3429-3435	3.7	41
103	Novel Mn <sup>4+</sup> doped Ca <sub>2</sub> GdSbO <sub>6</sub> red-emitting phosphor: A potential color converter for light-emitting diodes. <i>Journal of the American Ceramic Society</i> , <b>2019</b> , 102, 4730-4736	3.8	27
102	Double perovskite Ca <sub>2</sub> LuTaO <sub>6</sub> :Eu <sup>3+</sup> red-emitting phosphors: Synthesis, structure and photoluminescence characteristics. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 804, 230-236	5.7	37
101	Novel high-efficiency violet-red dual-emitting Lu <sub>2</sub> GeO <sub>5</sub> : Bi <sup>3+</sup> , Eu <sup>3+</sup> phosphors for indoor plant growth lighting. <i>Journal of Luminescence</i> , <b>2019</b> , 214, 116544	3.8	17
100	Novel Ca <sub>2</sub> GdT <sub>2</sub> O <sub>6</sub> :Mn <sup>4+</sup> ,M (M = Li <sup>+</sup> , Na <sup>+</sup> , K <sup>+</sup> , and Mg <sup>2+</sup> ) red phosphors for plant cultivation light-emitting diodes: Synthesis and luminescence properties. <i>Journal of Luminescence</i> , <b>2019</b> , 214, 116523	3.8	24

99	Cyan-emitting Ba <sub>3</sub> Y <sub>2</sub> B <sub>6</sub> O <sub>15</sub> :Ce <sup>3+</sup> ,Tb <sup>3+</sup> phosphor: A potential color converter for near-UV-excited white LEDs. <i>Journal of Luminescence</i> , <b>2019</b> , 211, 388-393	3.8	31
98	Highly efficient Ce <sup>3+</sup> -Tb <sup>3+</sup> energy transfer induced bright narrowband green emissions from garnet-type Ca <sub>2</sub> Y <sub>2</sub> Zr <sub>2</sub> (AlO <sub>4</sub> ) <sub>3</sub> :Ce <sup>3+</sup> ,Tb <sup>3+</sup> phosphors for white LEDs with high color rendering index. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 10471-10480	7.1	84
97	Morphology evolution of Eu <sup>3+</sup> -activated NaTbF <sub>4</sub> 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> , <b>2019</b> , 7, 10802-10809	7.1	60
96	Synthesis, Crystal Structure, and Photoluminescence Characteristics of High-Efficiency Deep-Red Emitting BaGdTao:Mn Phosphors. <i>ACS Omega</i> , <b>2019</b> , 4, 13474-13480	3.9	21
95	Crystal structure, photoluminescence properties and thermal stability of BaLu <sub>2</sub> Si <sub>3</sub> O <sub>10</sub> :Eu <sup>3+</sup> red-emitting phosphors with high color purity for near-UV-excited white LEDs. <i>Journal of Luminescence</i> , <b>2019</b> , 215, 116623	3.8	25
94	Novel highly efficient and thermally stable Ca <sub>2</sub> GdTao <sub>6</sub> :Eu <sup>3+</sup> red-emitting phosphors with high color purity for UV/blue-excited WLEDs. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 804, 93-99	5.7	40
93	Synthesis and photoluminescence properties of a novel high-efficiency red-emitting Ca <sub>2</sub> LuSbO <sub>6</sub> :Eu <sup>3+</sup> phosphor for WLEDs. <i>Journal of Luminescence</i> , <b>2019</b> , 214, 116605	3.8	31
92	New red phosphors enable white LEDs to show both high luminous efficacy and color rendering index. <i>Science Bulletin</i> , <b>2019</b> , 64, 879-880	10.6	37
91	Deep-red-emitting Ca <sub>2</sub> LuSbO <sub>6</sub> :Mn <sup>4+</sup> phosphors for plant growth LEDs: Synthesis, crystal structure, and photoluminescence properties. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 804, 521-526	5.7	26
90	Cyan phosphors for full-visible-spectrum lighting: shining new light on high-CRI white pc-LEDs. <i>Science Bulletin</i> , <b>2019</b> , 64, 1649-1651	10.6	24
89	Tunable Luminescence and Energy Transfer in Novel Blue-Green-Emitting BaGd <sub>2</sub> Si <sub>3</sub> O <sub>10</sub> :Ce <sup>3+</sup> ,Tb <sup>3+</sup> Phosphors for Near-UV-Based White LEDs. <i>ACS Omega</i> , <b>2019</b> , 4, 4384-4389	3.9	11
88	A high-efficiency, broadband-excited cyan-emitting Ba <sub>3</sub> Lu <sub>2</sub> B <sub>6</sub> O <sub>15</sub> :Ce <sup>3+</sup> ,Tb <sup>3+</sup> phosphor for near-UV-pumped white light-emitting diodes. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 787, 865-871	5.7	41
87	High-efficiency and thermal-stable Eu <sup>3+</sup> -activated Ca <sub>3</sub> Y(AlO) <sub>3</sub> (BO <sub>3</sub> ) <sub>4</sub> red-emitting phosphors for near-UV-excited white LEDs. <i>Journal of Luminescence</i> , <b>2019</b> , 205, 115-121	3.8	48
86	Synthesis, luminescence properties and thermal stability of Eu <sup>3+</sup> -activated Na <sub>2</sub> Y <sub>2</sub> B <sub>2</sub> O <sub>7</sub> red phosphors excited by near-UV light for pc-WLEDs. <i>Journal of Luminescence</i> , <b>2019</b> , 205, 129-135	3.8	38
85	Synthesis, structural and photoluminescence properties of novel orange-red emitting Ba <sub>3</sub> Y <sub>2</sub> B <sub>6</sub> O <sub>15</sub> :Eu <sup>3+</sup> phosphors. <i>Journal of Luminescence</i> , <b>2019</b> , 208, 75-81	3.8	34
84	Mn <sup>4+</sup> -activated KLaMgWO <sub>6</sub> : A new high-efficiency far-red phosphor for indoor plant growth LEDs. <i>Ceramics International</i> , <b>2019</b> , 45, 4564-4569	5.1	54
83	Bio-inspired carbon doped graphitic carbon nitride with booming photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 246, 61-71	21.8	38
82	Simultaneously enhanced far-red luminescence and thermal stability in Ca <sub>3</sub> Al <sub>4</sub> ZnO <sub>10</sub> :Mn <sup>4+</sup> phosphor via Mg <sup>2+</sup> doping for plant growth lighting. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 785, 312-319	5.7	37

81	Synthesis and photoluminescence properties of high-efficiency BaGd <sub>2</sub> Si <sub>3</sub> O <sub>10</sub> :Eu <sup>3+</sup> red phosphors for WLEDs and display device applications. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2019</b> , 30, 4196-4202	2.1	6
80	Ce <sup>3+</sup> -activated CaSr <sub>2</sub> Al <sub>2</sub> O <sub>6</sub> green-emitting phosphors: Potential application as color converter for warm WLEDs. <i>Journal of Luminescence</i> , <b>2019</b> , 206, 571-577	3.8	20
79	A novel highly efficient single-composition tunable white-light-emitting LiCa <sub>3</sub> MgV <sub>3</sub> O <sub>12</sub> :Eu <sup>3+</sup> phosphor. <i>Dyes and Pigments</i> , <b>2018</b> , 154, 82-86	4.6	82
78	Novel high-brightness and thermal-stable Ca <sub>3</sub> Gd(AlO) <sub>3</sub> (BO <sub>3</sub> ) <sub>4</sub> :Eu <sup>3+</sup> red phosphors with high colour purity for NUV-pumped white LEDs. <i>Dyes and Pigments</i> , <b>2018</b> , 154, 252-256	4.6	50
77	Ce and Tb doped CaGd(AlO)(BO) phosphors: synthesis, tunable photoluminescence, thermal stability, and potential application in white LEDs.. <i>RSC Advances</i> , <b>2018</b> , 8, 9879-9886	3.7	26
76	Ethylene glycol assisted rapid preparation of NaEuF <sub>4</sub> nanorods with splendid thermal stability for indoor illumination and optical displays. <i>Dyes and Pigments</i> , <b>2018</b> , 153, 307-315	4.6	10
75	Synthesis and photoluminescence properties of novel highly thermal-stable red-emitting Na <sub>3</sub> Sc <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> :Eu <sup>3+</sup> phosphors for UV-excited white-light-emitting diodes. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 741, 300-306	5.7	191
74	Finding a novel highly efficient Mn <sup>4+</sup> -activated Ca <sub>3</sub> La <sub>2</sub> W <sub>2</sub> O <sub>12</sub> far-red emitting phosphor with excellent responsiveness to phytochrome PFR: Towards indoor plant cultivation application. <i>Dyes and Pigments</i> , <b>2018</b> , 152, 36-42	4.6	177
73	Novel Na <sub>3</sub> Sc <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> :Ce <sup>3+</sup> , Tb <sup>3+</sup> phosphors for white LEDs: Tunable blue-green color emission, high quantum efficiency and excellent thermal stability. <i>Dyes and Pigments</i> , <b>2018</b> , 151, 81-88	4.6	123
72	Realizing highly efficient multicolor tunable emissions from Tb <sup>3+</sup> and Eu <sup>3+</sup> co-doped CaGd <sub>2</sub> (WO <sub>4</sub> ) <sub>4</sub> phosphors via energy transfer by single ultraviolet excitation for lighting and display applications. <i>Dyes and Pigments</i> , <b>2018</b> , 151, 202-210	4.6	42
71	A single-phased warm-white-emitting K <sub>3</sub> Y(PO <sub>4</sub> ) <sub>2</sub> :Dy <sup>3+</sup> , Sm <sup>3+</sup> phosphor with tuneable photoluminescence for near-UV-excited white LEDs. <i>Dyes and Pigments</i> , <b>2018</b> , 157, 72-79	4.6	31
70	High-efficiency and thermal-stable Ca <sub>3</sub> La(GaO) <sub>3</sub> (BO <sub>3</sub> ) <sub>4</sub> :Eu <sup>3+</sup> red phosphors excited by near-UV light for white LEDs. <i>Dyes and Pigments</i> , <b>2018</b> , 157, 40-46	4.6	76
69	Energy transfer and color-tunable luminescence properties of Dy <sup>3+</sup> and Eu <sup>3+</sup> co-doped Na <sub>3</sub> Sc <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> phosphors for near-UV LED-based warm white LEDs. <i>Dyes and Pigments</i> , <b>2018</b> , 156, 8-16	4.6	57
68	LiCa <sub>3</sub> MgV <sub>3</sub> O <sub>12</sub> :Sm <sup>3+</sup> : A new high-efficiency white-emitting phosphor. <i>Ceramics International</i> , <b>2018</b> , 44, 10340-10344	5.1	57
67	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> , <b>2018</b> , 8, 27144-27151	3.7	82
66	High-efficiency and thermally stable far-red-emitting NaLaMgWO:Mn phosphors for indoor plant growth light-emitting diodes. <i>Optics Letters</i> , <b>2018</b> , 43, 3305-3308	3	119
65	Synthesis and characterization of CaLu(GaO)(BO):Ce, Tb phosphors: tunable-color emissions, energy transfer, and thermal stability.. <i>RSC Advances</i> , <b>2018</b> , 8, 23284-23293	3.7	12
64	Synthesis and photoluminescence properties of novel yellow-emitting Ba <sub>2</sub> Gd <sub>5</sub> DyxBO <sub>17</sub> phosphors. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 15022-15028	2.1	6

63	Novel high color purity and thermally stable Eu <sup>3+</sup> ions activated Ba <sub>2</sub> Gd <sub>5</sub> B <sub>5</sub> O <sub>17</sub> red emitting phosphor for near-UV based WLEDs. <i>Optical Materials</i> , <b>2018</b> , 84, 312-317	3.3	15
62	Synthesis and photoluminescence properties of Eu-activated LiCaZnVO white-emitting phosphors.. <i>RSC Advances</i> , <b>2018</b> , 8, 17132-17138	3.7	31
61	High-efficiency and thermal-stable tunable blue-green-emitting Ca <sub>3</sub> Lu(AlO) <sub>3</sub> (BO <sub>3</sub> ) <sub>4</sub> :Ce <sup>3+</sup> ,Tb <sup>3+</sup> phosphors for near-UV-excited white LEDs. <i>Dyes and Pigments</i> , <b>2018</b> , 157, 314-320	4.6	25
60	Synthesis, energy transfer and photoluminescence properties of thermal-stable multicolour-emitting Ca <sub>3</sub> Gd(AlO) <sub>3</sub> (BO <sub>3</sub> ) <sub>4</sub> :Tb <sup>3+</sup> ,Eu <sup>3+</sup> phosphors. <i>Journal of Luminescence</i> , <b>2018</b> , 204, 386-393	3.8	20
59	Single-phased white-emitting Ca <sub>3</sub> Y(GaO) <sub>3</sub> (BO <sub>3</sub> ) <sub>4</sub> :Ce <sup>3+</sup> ,Tb <sup>3+</sup> ,Sm <sup>3+</sup> phosphors with high-efficiency: Photoluminescence, energy transfer and application in near-UV-pumped white LEDs. <i>Journal of Luminescence</i> , <b>2018</b> , 204, 410-418	3.8	40
58	Synthesis and photoluminescence properties of novel far-red-emitting BaLaMgNbO:Mn phosphors for plant growth LEDs.. <i>RSC Advances</i> , <b>2018</b> , 8, 28538-28545	3.7	70
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56	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> , <b>2018</b> , 43, 1307-1310	3	136
55	Photoluminescence properties of a novel rare-earth-free red-emitting Ca <sub>3</sub> Y(AlO) <sub>3</sub> (BO <sub>3</sub> ) <sub>4</sub> :Mn <sup>4+</sup> phosphor for white LEDs application. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 12972-12977	2.1	15
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53	Low-temperature solid-state synthesis and photoluminescence properties of novel high-brightness and thermal-stable Eu <sup>3+</sup> -activated Na <sub>2</sub> Lu(MoO <sub>4</sub> )(PO <sub>4</sub> ) red-emitting phosphors for near-UV-excited white LEDs. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 764, 809-814	5.7	57
52	High-efficiency cubic-phased blue-emitting BaLuBO:Ce phosphors for ultraviolet-excited white-light-emitting diodes. <i>Optics Letters</i> , <b>2018</b> , 43, 5138-5141	3	36
51	Ultrafast synthesis of bifunctional Er/Yb-codoped NaBiF upconverting nanoparticles for nanothermometer and optical heater. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 514, 172-181	9.3	122
50	Facile synthesis of bifunctional Eu <sup>3+</sup> -activated NaBiF <sub>4</sub> red-emitting nanoparticles for simultaneous white light-emitting diodes and field emission displays. <i>Chemical Engineering Journal</i> , <b>2018</b> , 337, 91-100	14.7	275
49	Multicolour tunable luminescence of thermal-stable Ce <sup>3+</sup> /Tb <sup>3+</sup> /Eu <sup>3+</sup> -trivalent activated Ca <sub>3</sub> Gd(GaO) <sub>3</sub> (BO <sub>3</sub> ) <sub>4</sub> phosphors via Ce <sup>3+</sup> → Tb <sup>3+</sup> → Eu <sup>3+</sup> energy transfer for near-UV WLEDs applications. <i>Ceramics International</i> , <b>2018</b> , 44, 4915-4923	5.1	76
48	Energy transfer and tunable photoluminescence of LaBWO <sub>6</sub> :Tb <sup>3+</sup> ,Eu <sup>3+</sup> phosphors for near-UV white LEDs. <i>Dyes and Pigments</i> , <b>2018</b> , 150, 67-72	4.6	166
47	Lu doping induced photoluminescence enhancement in novel high-efficiency BaEu(BO) red phosphors for near-UV-excited warm-white LEDs.. <i>RSC Advances</i> , <b>2018</b> , 8, 33710-33716	3.7	7
46	Preparation, characterization, and luminescence properties of double perovskite SrLaMgSbO:Mn far-red emitting phosphors for indoor plant growth lighting.. <i>RSC Advances</i> , <b>2018</b> , 8, 35187-35194	3.7	15

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44	A novel Sm singly doped LiCaZnVO phosphor: a potential luminescent material for multifunctional applications.. <i>RSC Advances</i> , <b>2018</b> , 8, 33403-33413	3.7	35
43	Synthesis, structure, and luminescence characteristics of far-red emitting Mn-activated LaScO perovskite phosphors for plant growth.. <i>RSC Advances</i> , <b>2018</b> , 8, 33035-33041	3.7	7
42	Novel high-efficiency Eu-activated NaGdBO red-emitting phosphors with high color purity.. <i>RSC Advances</i> , <b>2018</b> , 8, 32948-32955	3.7	10
41	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> , <b>2018</b> , 8, 32111-32118	3.7	24
40	Thermally stable LaLiSbO:Mn,Mg far-red emitting phosphors with over 90% internal quantum efficiency for plant growth LEDs.. <i>RSC Advances</i> , <b>2018</b> , 8, 31835-31842	3.7	23
39	Far-red-emitting double-perovskite CaLaMgSbO:Mn phosphors with high photoluminescence efficiency and thermal stability for indoor plant cultivation LEDs.. <i>RSC Advances</i> , <b>2018</b> , 8, 31666-31672	3.7	48
38	Novel SrMgLaWO:Mn far-red phosphors with high quantum efficiency and thermal stability towards applications in indoor plant cultivation LEDs.. <i>RSC Advances</i> , <b>2018</b> , 8, 30191-30200	3.7	56
37	Photoluminescence properties of novel BaLuBO:Eu red emitting phosphors with high color purity for near-UV excited white light emitting diodes.. <i>RSC Advances</i> , <b>2018</b> , 8, 30396-30403	3.7	7
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34	Molybdenum-doping-induced photoluminescence enhancement in Eu <sup>3+</sup> -activated CaWO <sub>4</sub> red-emitting phosphors for white light-emitting diodes. <i>Dyes and Pigments</i> , <b>2017</b> , 143, 86-94	4.6	199
33	Highly efficient Eu <sup>3+</sup> -activated K <sub>2</sub> Gd(WO <sub>4</sub> )(PO <sub>4</sub> ) red-emitting phosphors with superior thermal stability for solid-state lighting. <i>Ceramics International</i> , <b>2017</b> , 43, 10566-10571	5.1	91
32	Eu <sup>3+</sup> -activated Na <sub>2</sub> Gd(PO <sub>4</sub> )(MoO <sub>4</sub> ): 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> , <b>2017</b> , 720, 29-38	5.7	179
31	Yb <sup>3+</sup> -Concentration dependent upconversion luminescence and temperature sensing behavior in Yb <sup>3+</sup> /Er <sup>3+</sup> codoped Gd <sub>2</sub> MoO <sub>6</sub> nanocrystals prepared by a facile citric-assisted sol-gel method. <i>Inorganic Chemistry Frontiers</i> , <b>2017</b> , 4, 1987-1995	6.8	105
30	Synthesis, photoluminescence, cathodoluminescence, and thermal properties of novel Tb <sup>3+</sup> -doped BiOCl green-emitting phosphors. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 695, 2773-2780	5.7	146
29	Broadband dye-sensitized upconversion: A promising new platform for future solar upconverter design. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 690, 356-359	5.7	131
28	Tuning the size and upconversion luminescence of NaYbF <sub>4</sub> :Er <sup>3+</sup> /Tm <sup>3+</sup> nanoparticles through Y <sup>3+</sup> or Gd <sup>3+</sup> doping. <i>Optical Materials Express</i> , <b>2016</b> , 6, 2165	2.6	32



27	Synthesis, multicolour tuning, and emission enhancement of ultrasmall LaF <sub>3</sub> :Yb <sup>3+</sup> /Ln <sup>3+</sup> (Ln = Er, Tm, and Ho) upconversion nanoparticles. <i>Journal of Materials Science</i> , <b>2016</b> , 51, 3490-3499	4.3	26
26	Realizing efficient upconversion and down-shifting dual-mode luminescence in lanthanide-doped NaGdF <sub>4</sub> core-shell nanoparticles through gadolinium sublattice-mediated energy migration. <i>Dyes and Pigments</i> , <b>2016</b> , 130, 99-105	4.6	44
25	Active-core/active-shell nanostructured design: an effective strategy to enhance Nd <sup>3+</sup> /Yb <sup>3+</sup> cascade sensitized upconversion luminescence in lanthanide-doped nanoparticles. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 7652-7657	7.1	99
24	Giant enhancement of upconversion emission in (NaYF <sub>4</sub> :Nd <sup>3+</sup> /Yb <sup>3+</sup> /Ho <sup>3+</sup> )/(NaYF <sub>4</sub> :Nd <sup>3+</sup> /Yb <sup>3+</sup> ) core/shell nanoparticles excited at 808 nm. <i>Optics Letters</i> , <b>2015</b> , 40, 3599-602	3	62
23	KF-mediated controlled-synthesis of potassium ytterbium fluorides (doped with Er <sup>3+</sup> ) with phase-dependent upconversion luminescence. <i>CrystEngComm</i> , <b>2015</b> , 17, 7182-7190	3.3	10
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