

# Xiaoyong Huang

## List of Publications by Year in descending order

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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	Blue-light-excitable broadband yellow-emitting $\text{CaGd}_2\text{HfSc}(\text{AlO}_4)_3\text{:Ce}^{3+}$ garnet phosphors for white light-emitting diode devices with improved color rendering index. <i>Materials Today Chemistry</i> , 2022, 23, 100638.	3.5	7
2	High-brightness cyan-emitting $\text{Eu}^{2+}$ -activated orthophosphate phosphors for near-UV-pumped white LEDs. <i>Journal of Luminescence</i> , 2022, 243, 118640.	3.1	27
3	One-step low-temperature solid-state synthesis of lead-free cesium copper halide $\text{Cs}_3\text{Cu}_2\text{Br}_5$ phosphors with bright blue emissions. <i>Materials Today Chemistry</i> , 2022, 23, 100678.	3.5	5
4	Full-Spectrum White Light-Emitting Diodes Enabled by an Efficient Broadband Green-Emitting $\text{CaY}_2\text{ZrScAl}_3\text{O}_{12}\text{:Ce}^{3+}$ Garnet Phosphor. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 5643-5652.	8.0	72
5	An energy transfer strategy for highly luminescent green-emitting $\text{Ce}^{3+}/\text{Tb}^{3+}$ codoped $\text{Ca}_2\text{LaHf}_2\text{Al}_3\text{O}_{12}$ garnet phosphors in white light-emitting diodes. <i>Materials Today Chemistry</i> , 2022, 24, 100773.	3.5	2
6	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> , 2022, 27, 101439.	4.3	5
7	Highly Efficient Broad-Band Green-Emitting Cerium(III)-Activated Garnet Phosphor Allows the Fabrication of Blue-Chip-Based Warm-White LED Device with a Superior Color Rendering Index. <i>Inorganic Chemistry</i> , 2022, 61, 6953-6963.	4.0	22
8	Dazzling Red-Emitting Europium(III) Ion-Doped $\text{Ca}_2\text{LaHf}_2\text{Al}_3\text{O}_{12}$ Garnet-Type Phosphor Materials with Potential Application in Solid-State White Lighting. <i>Inorganic Chemistry</i> , 2022, 61, 6898-6909.	4.0	22
9	Emerging high-power NIR-emitting phosphor-converted LEDs. <i>Green Energy and Environment</i> , 2021, 6, 617-619.	8.7	1
10	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
11	Synthesis, crystal structure and photoluminescence properties of high-color-purity red-emitting $\text{SrLu}_2\text{O}_4\text{:Eu}^{3+}$ phosphors with excellent thermal stability. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 404, 112908.	3.9	14
12	Energy transfer induced color-tunable emissions from $\text{Ba}_2\text{Gd}_5\text{B}_5\text{O}_{17}\text{:Ce}^{3+}/\text{Tb}^{3+}$ borate phosphors for white LEDs. <i>Journal of Luminescence</i> , 2021, 229, 117685.	3.1	17
13	Synthesis, crystal structure and photoluminescence properties of novel far-red-emitting $\text{SrLaZnSbO}_6\text{:Mn}^{4+}$ double-perovskite phosphors for plant cultivation LEDs. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 410, 113166.	3.9	16
14	Bright red luminescence from $\text{Mn}^{4+}$ ions doped $\text{Sr}_2\text{LuTaO}_6$ double-perovskite phosphors. <i>Journal of Luminescence</i> , 2021, 233, 117901.	3.1	29
15	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> , 2021, 20, 100471.	3.5	23
16	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.	3.5	23
17	Novel $\text{Ba}_3\text{Lu}_4\text{O}_9\text{:Bi}^{3+},\text{Eu}^{3+}$ 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> , 2021, 238, 118291.	3.1	4
18	Utilizing energy transfer strategy to produce efficient green luminescence in $\text{Ca}_2\text{LuHf}_2\text{Al}_3\text{O}_{12}\text{:Ce}^{3+},\text{Tb}^{3+}$ garnet phosphors for high-quality near-UV-pumped warm-white LEDs. <i>Journal of Colloid and Interface Science</i> , 2021, 601, 365-377.	9.4	23

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19	Full-color persistent luminescence tuning: A marriage of perovskite quantum dots and lanthanide ions. <i>Science China Materials</i> , 2020, 63, 165-166.	6.3	8
20	Recent progress in black phosphorus nanostructures as environmental photocatalysts. <i>Chemical Engineering Journal</i> , 2020, 379, 122297.	12.7	73
21	High-throughput DFT screening enables the discovery of a super-broadband white-emitting phosphor for high-CRI white LEDs. <i>Science China Materials</i> , 2020, 63, 325-326.	6.3	5
22	A broadband cyan-emitting $\text{Ca}_2\text{LuZr}_2(\text{AlO}_4)_3\text{Ce}_3$ 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
23	Efficient green-emitting $\text{Ca}_2\text{GdZr}_2\text{Al}_3\text{O}_{12}:\text{Ce}^{3+},\text{Tb}^{3+}$ phosphors for near-UV-pumped high-CRI warm-white LEDs. <i>Journal of Luminescence</i> , 2020, 220, 117012.	3.1	18
24	A novel efficient $\text{Mn}^{4+}$ -activated $\text{Ba}_2\text{YTao}_6$ far-red emitting phosphor for plant cultivation LEDs: Preparation and photoluminescence properties. <i>Journal of Luminescence</i> , 2020, 228, 117621.	3.1	20
25	$\text{KCa}_2\text{Mg}_2\text{V}_3\text{O}_{12}$ : A novel efficient rare-earth-free self-activated yellow-emitting phosphor. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 401, 112765.	3.9	19
26	Bright cyan-to-green color-tunable emissions from $\text{Ce}^{3+}/\text{Tb}^{3+}$ co-activated garnet phosphors for high-color-quality solid-state lighting. <i>Materials Today Energy</i> , 2020, 17, 100487.	4.7	18
27	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.	3.1	14
28	Preparation, crystal structure, and photoluminescence properties of high-brightness red-emitting $\text{Ca}_2\text{LuNbO}_6:\text{Eu}^{3+}$ double-perovskite phosphors for high-CRI warm-white LEDs. <i>Journal of Luminescence</i> , 2020, 225, 117373.	3.1	33
29	$\text{Eu}^{3+}$ -activated $\text{Ca}_2\text{YTao}_6$ 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
30	Optical properties of deep-red-emitting $\text{Ca}_2\text{YTao}_6:\text{Mn}^{4+}$ phosphors for LEDs applications. <i>Optics and Laser Technology</i> , 2020, 130, 106349.	4.6	29
31	Bright tunable white-light emissions from $\text{Bi}^{3+}/\text{Eu}^{3+}$ co-doped $\text{Ba}_2\text{Y}_5\text{B}_5\text{O}_{17}$ phosphors via energy transfer for UV-excited white light-emitting diodes. <i>Journal of Luminescence</i> , 2020, 226, 117474.	3.1	38
32	Achieving full-visible-spectrum LED lighting via employing an efficient $\text{Ce}^{3+}$ -activated cyan phosphor. <i>Materials Today Energy</i> , 2020, 17, 100448.	4.7	46
33	Novel efficient deep-red-emitting $\text{Ca}_2\text{LuTaO}_6:\text{Mn}^{4+}$ double-perovskite phosphors for plant growth LEDs. <i>Journal of Luminescence</i> , 2020, 222, 117177.	3.1	36
34	Preparation and photoluminescence properties of novel $\text{Mn}^{4+}$ doped $\text{Li}_3\text{Mg}_2\text{TaO}_6$ red-emitting phosphors. <i>Inorganic Chemistry Communication</i> , 2020, 116, 107903.	3.9	24
35	Synthesis and photoluminescence properties of a new blue-light-excitable red phosphor $\text{Ca}_2\text{LaTaO}_6:\text{Eu}^{3+}$ for white LEDs. <i>Journal of Luminescence</i> , 2020, 222, 117173.	3.1	42
36	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

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37	Realizing bright blue-red color-tunable emissions from Gd <sub>2</sub> CeO <sub>5</sub> :Bi <sup>3+</sup> ,Eu <sup>3+</sup> phosphors through energy transfer toward light-emitting diodes. <i>Journal of Luminescence</i> , 2020, 222, 117127.	3.1	22
38	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> , 2020, 8, 4408-4420.	5.5	131
39	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> , 2020, 221, 117105.	3.1	75
40	Synthesis and photoluminescence properties of novel red-emitting KBaLu(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> , 2020, 116, 107938.	3.9	10
41	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> , 2020, 836, 155469.	5.5	50
42	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> , 2020, 17, 100288.	3.5	53
43	Highly efficient Ce <sup>3+</sup> at Tb <sup>3+</sup> energy transfer induced bright narrowband green emissions from garnet-type Ca <sub>2</sub> YZr <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> , 2019, 7, 10471-10480.	5.5	110
44	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> , 2019, 7, 10802-10809.	5.5	85
45	Synthesis, Crystal Structure, and Photoluminescence Characteristics of High-Efficiency Deep-Red Emitting Ba <sub>2</sub> GdTao <sub>6</sub> :Mn <sup>4+</sup> Phosphors. <i>ACS Omega</i> , 2019, 4, 13474-13480.	3.5	40
46	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> , 2019, 215, 116623.	3.1	38
47	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> , 2019, 804, 93-99.	5.5	73
48	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> , 2019, 214, 116605.	3.1	44
49	New red phosphors enable white LEDs to show both high luminous efficacy and color rendering index. <i>Science Bulletin</i> , 2019, 64, 879-880.	9.0	55
50	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> , 2019, 804, 521-526.	5.5	46
51	Cyan phosphors for full-visible-spectrum lighting: shining new light on high-CRI white pc-LEDs. <i>Science Bulletin</i> , 2019, 64, 1649-1651.	9.0	47
52	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
53	Realizing efficient ultraviolet emission from Er <sup>3+</sup> -sensitized upconversion nanoparticles under 1550 nm excitation. <i>Science Bulletin</i> , 2019, 64, 1295-1297.	9.0	3
54	Homogeneous core-shell structure stabilizes Mn <sup>4+</sup> -doped fluoride red phosphors for high-performance warm-white LEDs. <i>Science China Materials</i> , 2019, 62, 1934-1935.	6.3	21

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55	Multifunctional Zn <sup>2+</sup> /Al layered double hydroxides for surface-enhanced Raman scattering and surface-enhanced infrared absorption. Dalton Transactions, 2019, 48, 426-434.	3.3	17
56	CaYAlO <sub>4</sub> :Mn <sup>4+</sup> ,Mg <sup>2+</sup> : An efficient far-red-emitting phosphor for indoor plant growth LEDs. Journal of Alloys and Compounds, 2019, 785, 1198-1205.	5.5	49
57	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. Journal of Luminescence, 2019, 209, 156-162.	3.1	49
58	Mn <sup>4+</sup> -activated BaLaMgSbO <sub>6</sub> double-perovskite phosphor: a novel high-efficiency far-red-emitting luminescent material for indoor plant growth lighting. RSC Advances, 2019, 9, 3303-3310.	3.6	34
59	Enhanced electromagnetic absorbing performance of MOF-derived Ni/NiO/Cu@C composites. Composites Part B: Engineering, 2019, 164, 583-589.	12.0	96
60	Mn <sup>4+</sup> -activated Li <sub>3</sub> Mg <sub>2</sub> SbO <sub>6</sub> as an ultrabright fluoride-free red-emitting phosphor for warm white light-emitting diodes. RSC Advances, 2019, 9, 3429-3435.	3.6	65
61	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. Journal of the American Ceramic Society, 2019, 102, 4730-4736.	3.8	41
62	Double perovskite Ca <sub>2</sub> LuTaO <sub>6</sub> :Eu <sup>3+</sup> red-emitting phosphors: Synthesis, structure and photoluminescence characteristics. Journal of Alloys and Compounds, 2019, 804, 230-236.	5.5	65
63	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. Journal of Luminescence, 2019, 214, 116544.	3.1	24
64	Novel Ca <sub>2</sub> GdTaO <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. Journal of Luminescence, 2019, 214, 116525.	3.1	38
65	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. Journal of Luminescence, 2019, 211, 388-393.	3.1	43
66	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. ACS Omega, 2019, 4, 4384-4389.	3.5	18
67	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. Journal of Alloys and Compounds, 2019, 787, 865-871.	5.5	51
68	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. Journal of Luminescence, 2019, 205, 115-121.	3.1	67
69	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. Journal of Luminescence, 2019, 205, 129-135.	3.1	82
70	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. Journal of Luminescence, 2019, 208, 75-81.	3.1	48
71	Mn <sup>4+</sup> -activated KLaMgWO <sub>6</sub> : A new high-efficiency far-red phosphor for indoor plant growth LEDs. Ceramics International, 2019, 45, 4564-4569.	4.8	85
72	Bio-inspired carbon doped graphitic carbon nitride with booming photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2019, 246, 61-71.	20.2	79

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73	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> , 2019, 785, 312-319.	5.5	47
74	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> , 2019, 30, 4196-4202.	2.2	11
75	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> , 2019, 206, 571-577.	3.1	33
76	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> , 2018, 154, 82-86.	3.7	109
77	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> , 2018, 154, 252-256.	3.7	61
78	Ce <sup>3+</sup> and Tb <sup>3+</sup> doped Ca <sub>3</sub> Gd(AlO) <sub>3</sub> (BO <sub>3</sub> ) <sub>4</sub> phosphors: synthesis, tunable photoluminescence, thermal stability, and potential application in white LEDs. <i>RSC Advances</i> , 2018, 8, 9879-9886.	3.6	29
79	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> , 2018, 153, 307-315.	3.7	13
80	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> , 2018, 741, 300-306.	5.5	247
81	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> , 2018, 152, 36-42.	3.7	231
82	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> , 2018, 151, 81-88.	3.7	142
83	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> , 2018, 151, 202-210.	3.7	54
84	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> , 2018, 157, 72-79.	3.7	49
85	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> , 2018, 157, 40-46.	3.7	101
86	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> , 2018, 156, 8-16.	3.7	75
87	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> , 2018, 44, 10340-10344.	4.8	92
88	Ultrafast synthesis of bifunctional Er <sup>3+</sup> /Yb <sup>3+</sup> -codoped NaBiF <sub>4</sub> upconverting nanoparticles for nanothermometer and optical heater. <i>Journal of Colloid and Interface Science</i> , 2018, 514, 172-181.	9.4	167
89	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> , 2018, 337, 91-100.	12.7	374
90	Multicolour tunable luminescence of thermal-stable Ce <sup>3+</sup> /Tb <sup>3+</sup> /Eu <sup>3+</sup> -trivalent 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> , 2018, 44, 4915-4923.	4.8	97

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91	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> , 2018, 150, 67-72.	3.7	201
92	Lu <sup>3+</sup> doping induced photoluminescence enhancement in novel high-efficiency Ba <sub>3</sub> Eu(BO <sub>3</sub> ) <sub>3</sub> red phosphors for near-UV-excited warm-white LEDs. <i>RSC Advances</i> , 2018, 8, 33710-33716.	3.6	14
93	Preparation, characterization, and luminescence properties of double perovskite SrLaMgSbO <sub>6</sub> :Mn <sup>4+</sup> far-red emitting phosphors for indoor plant growth lighting. <i>RSC Advances</i> , 2018, 8, 35187-35194.	3.6	21
94	Novel far-red-emitting SrGdAlO <sub>4</sub> :Mn <sup>4+</sup> phosphors with excellent responsiveness to phytochrome P <sub>FR</sub> for plant growth lighting. <i>RSC Advances</i> , 2018, 8, 39307-39313.	3.6	33
95	A novel Sm <sup>3+</sup> singly doped LiCa <sub>3</sub> ZnV <sub>3</sub> O <sub>12</sub> phosphor: a potential luminescent material for multifunctional applications. <i>RSC Advances</i> , 2018, 8, 33403-33413.	3.6	59
96	Synthesis, structure, and luminescence characteristics of far-red emitting Mn <sup>4+</sup> -activated LaScO <sub>3</sub> perovskite phosphors for plant growth. <i>RSC Advances</i> , 2018, 8, 33035-33041.	3.6	8
97	Novel high-efficiency Eu <sup>3+</sup> -activated Na <sub>2</sub> Gd <sub>2</sub> B <sub>2</sub> O <sub>7</sub> red-emitting phosphors with high color purity. <i>RSC Advances</i> , 2018, 8, 32948-32955.	3.6	20
98	Synthesis and photoluminescence characteristics of high color purity Ba <sub>3</sub> Y <sub>4</sub> O <sub>9</sub> :Eu <sup>3+</sup> red-emitting phosphors with excellent thermal stability for warm W-LED application. <i>RSC Advances</i> , 2018, 8, 32111-32118.	3.6	41
99	Thermally stable La <sub>2</sub> LiSbO <sub>6</sub> :Mn <sup>4+</sup> ,Mg <sup>2+</sup> 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
100	Far-red-emitting double-perovskite CaLaMgSbO <sub>6</sub> :Mn <sup>4+</sup> phosphors with high photoluminescence efficiency and thermal stability for indoor plant cultivation LEDs. <i>RSC Advances</i> , 2018, 8, 31666-31672.	3.6	63
101	Novel SrMg <sub>2</sub> La <sub>2</sub> W <sub>2</sub> O <sub>12</sub> :Mn <sup>4+</sup> 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
102	Photoluminescence properties of novel Ba <sub>2</sub> Lu <sub>5</sub> B <sub>5</sub> O <sub>17</sub> :Eu <sup>3+</sup> red emitting phosphors with high color purity for near-UV excited white light emitting diodes. <i>RSC Advances</i> , 2018, 8, 30396-30403.	3.6	11
103	Novel Eu <sup>3+</sup> -activated Ba <sub>2</sub> Y <sub>5</sub> B <sub>5</sub> O <sub>17</sub> red-emitting phosphors for white LEDs: high color purity, high quantum efficiency and excellent thermal stability. <i>RSC Advances</i> , 2018, 8, 23323-23331.	3.6	25
104	Synthesis and photoluminescence properties of deep red-emitting CaGdAlO <sub>4</sub> :Mn <sup>4+</sup> phosphors for plant growth LEDs. <i>Journal of Luminescence</i> , 2018, 203, 371-375.	3.1	97
105	Novel Mn <sup>4+</sup> -activated LiLaMgWO <sub>6</sub> 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
106	High-efficiency and thermally stable far-red-emitting NaLaMgWO <sub>6</sub> :Mn <sup>4+</sup> phosphors for indoor plant growth light-emitting diodes. <i>Optics Letters</i> , 2018, 43, 3305.	3.3	148
107	Synthesis and characterization of Ca <sub>3</sub> Lu(GaO) <sub>3</sub> (BO <sub>3</sub> ) <sub>4</sub> :Ce <sup>3+</sup> ,Tb <sup>3+</sup> phosphors: tunable-color emissions, energy transfer, and thermal stability. <i>RSC Advances</i> , 2018, 8, 23284-23293.	3.6	14
108	Synthesis and photoluminescence properties of novel yellow-emitting Ba <sub>2</sub> Gd <sub>5</sub> x <sub>2</sub> Dyx <sub>5</sub> O <sub>17</sub> phosphors. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 15022-15028.	2.2	7

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110	Synthesis and photoluminescence properties of Eu <sup>3+</sup> -activated LiCa <sub>3</sub> ZnV <sub>3</sub> O <sub>12</sub> white-emitting phosphors. <i>RSC Advances</i> , 2018, 8, 17132-17138.	3.6	37
111	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> , 2018, 157, 314-320.	3.7	37
112	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> , 2018, 204, 386-393.	3.1	25
113	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> , 2018, 204, 410-418.	3.1	46
114	Synthesis and photoluminescence properties of novel far-red-emitting BaLaMgNbO <sub>6</sub> :Mn <sup>4+</sup> phosphors for plant growth LEDs. <i>RSC Advances</i> , 2018, 8, 28538-28545.	3.6	93
115	Novel SrLaAlO <sub>4</sub> :Mn <sup>4+</sup> deep-red emitting phosphors with excellent responsiveness to phytochrome P <sub>FR</sub> for plant cultivation LEDs: synthesis, photoluminescence properties, and thermal stability. <i>RSC Advances</i> , 2018, 8, 30223-30229.	3.6	60
116	High-brightness and high-color purity red-emitting Ca <sub>3</sub> Lu(AlO) <sub>3</sub> (BO <sub>3</sub> ) <sub>4</sub> :Eu <sup>3+</sup> 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
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118	Ca <sub>3</sub> Lu(GaO) <sub>3</sub> (BO <sub>3</sub> ) <sub>4</sub> :Eu <sup>3+</sup> : 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
119	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> , 2018, 764, 809-814.	5.5	69
120	High-efficiency cubic-phased blue-emitting Ba <sub>3</sub> Lu <sub>2</sub> B <sub>6</sub> O <sub>15</sub> :Ce <sup>3+</sup> phosphors for ultraviolet-excited white-light-emitting diodes. <i>Optics Letters</i> , 2018, 43, 5138.	3.3	44
121	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> , 2017, 143, 86-94.	3.7	243
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123	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> , 2017, 720, 29-38.	5.5	224
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125	Synthesis, photoluminescence, cathodoluminescence, and thermal properties of novel Tb <sup>3+</sup> -doped BiOCl green-emitting phosphors. <i>Journal of Alloys and Compounds</i> , 2017, 695, 2773-2780.	5.5	168
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128	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> , 2016, 6, 2165.	3.0	36
129	Synthesis, multicolour tuning, and emission enhancement of ultrasmall LaF <sub>3</sub> :Yb <sup>3+</sup> /Ln <sup>3+</sup> (Ln = Er, Tm, and Tj) nanoparticles. <i>Journal of Materials Chemistry C</i> , 2016, 4, 10743-10751.	3.7	143
130	Enhancement of near-infrared to near-infrared upconversion luminescence in sub-10-nm ultra-small LaF <sub>3</sub> :Yb <sup>3+</sup> /Tm <sup>3+</sup> nanoparticles through lanthanide doping. <i>Optics Letters</i> , 2015, 40, 5231.	3.3	33
131	Dual-model upconversion luminescence from NaGdF <sub>4</sub> :Nd/Yb/Tm@NaGdF <sub>4</sub> :Eu/Tb core-shell nanoparticles. <i>Journal of Alloys and Compounds</i> , 2015, 628, 240-244.	5.5	63
132	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> , 2015, 3, 7652-7657.	5.5	114
133	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> , 2015, 40, 3599.	3.3	66
134	KF-mediated controlled-synthesis of potassium ytterbium fluorides (doped with Er <sup>3+</sup> ) with phase-dependent upconversion luminescence. <i>CrystEngComm</i> , 2015, 17, 7182-7190.	2.6	12
135	Red phosphor converts white LEDs. <i>Nature Photonics</i> , 2014, 8, 748-749.	31.4	389
136	The luminescence properties of Bi <sup>3+</sup> sensitized Gd <sub>2</sub> MoO <sub>6</sub> :RE <sup>3+</sup> (RE = Eu or Sm) phosphors for solar spectral conversion. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 115, 767-771.	3.9	48
137	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
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141	Efficient near-infrared quantum splitting in YVO <sub>4</sub> :Ho <sup>3+</sup> for photovoltaics. <i>Solar Energy Materials and Solar Cells</i> , 2012, 101, 303-307.	6.2	26
142	Spectral conversion for solar cell efficiency enhancement using YVO <sub>4</sub> :Bi <sup>3+</sup> ,Ln <sup>3+</sup> (Ln = Dy, Er, Ho, Eu, Sm) nanoparticles. <i>Journal of Materials Chemistry C</i> , 2012, 4, 10743-10751.	2.5	96
143	ZnWO <sub>4</sub> :Eu <sup>3+</sup> nanorods: A potential tunable white light-emitting phosphors. <i>Journal of Alloys and Compounds</i> , 2011, 509, 1355-1359.	5.5	53
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147	Three-photon near-infrared quantum splitting in <i>i</i> <sup>2</sup> -NaYF <sub>4</sub> :Ho <sup>3+</sup> . Applied Physics Letters, 2011, 99, .	3.3	36
148	Free-standing ZnO–CuO composite nanowire array films and their gas sensing properties. Nanotechnology, 2011, 22, 325704.	2.6	93
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