

# Xiaoyong Huang

## List of Publications by Year in descending order

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155  
papers

11,506  
citations

23544

58  
h-index

30894

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.	18.7	1,446
2	Recent progress in quantum cutting phosphors. <i>Progress in Materials Science</i> , 2010, 55, 353-427.	16.0	523
3	Red phosphor converts white LEDs. <i>Nature Photonics</i> , 2014, 8, 748-749.	15.6	389
4	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.	6.6	374
5	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.	2.8	247
6	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.	2.0	243
7	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.	2.0	231
8	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.	2.8	224
9	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.	2.0	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.	2.7	195
11	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.	1.7	190
12	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> , 2020, 8, 1095-1103.	2.7	176
13	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.	2.8	168
14	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.	5.0	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.	2.8	148
16	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.	1.7	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.	6.6	146
18	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.	2.0	142

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19	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> , 2017, 4, 1987-1995.	3.0	138
20	Highly efficient near-UV-excitable Ca <sub>2</sub> YHfAl <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.	2.7	131
21	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.	2.7	114
22	Highly efficient Ce <sup>3+</sup> 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.	2.7	110
23	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> , 2017, 43, 10566-10571.	2.3	109
24	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.	2.0	109
25	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.	1.7	103
26	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.	2.0	101
27	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.	2.3	97
28	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.	1.5	97
29	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),Tj ETQq1 1.1 0.7843 96	1.1	96
30	Enhanced electromagnetic absorbing performance of MOF-derived Ni/NiO/Cu@C composites. <i>Composites Part B: Engineering</i> , 2019, 164, 583-589.	5.9	96
31	Free-standing ZnO-CuO composite nanowire array films and their gas sensing properties. <i>Nanotechnology</i> , 2011, 22, 325704.	1.3	93
32	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.	1.7	93
33	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.	2.3	92
34	Broadband Downconversion of Ultraviolet Light to Near-Infrared Emission in Bi <sup>3+</sup> -Yb <sup>3+</sup> -Codoped Y <sub>2</sub> O <sub>3</sub> Phosphors. <i>Journal of the American Ceramic Society</i> , 2011, 94, 833-837.	1.9	89
35	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.	2.7	85
36	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> , 2019, 45, 4564-4569.	2.3	85

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37	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> , 2019, 205, 129-135.	1.5	82
38	Bio-inspired carbon doped graphitic carbon nitride with booming photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2019, 246, 61-71.	10.8	79
39	Concentration-dependent near-infrared quantum cutting in NaYF <sub>4</sub> :Pr <sup>3+</sup> , Yb <sup>3+</sup> phosphor. <i>Journal of Applied Physics</i> , 2009, 106, .	1.1	78
40	Near-infrared quantum cutting via cooperative energy transfer in Gd <sub>2</sub> O <sub>3</sub> :Bi <sup>3+</sup> , Yb <sup>3+</sup> phosphors. <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	77
41	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.	2.0	75
42	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.	1.5	75
43	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.	1.7	73
44	Novel highly efficient and thermally stable Ca <sub>2</sub> GdT <sub>2</sub> O <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.	2.8	73
45	Recent progress in black phosphorus nanostructures as environmental photocatalysts. <i>Chemical Engineering Journal</i> , 2020, 379, 122297.	6.6	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.	2.9	72
47	Full-Spectrum White Light-Emitting Diodes Enabled by an Efficient Broadband Green-Emitting CaY <sub>2</sub> ZrScAl <sub>3</sub> O <sub>12</sub> :Ce <sup>3+</sup> Garnet Phosphor. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 5643-5652.	4.0	72
48	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.	2.8	69
49	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> , 2019, 205, 115-121.	1.5	67
50	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.	1.7	66
51	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. <i>RSC Advances</i> , 2019, 9, 3429-3435.	1.7	65
52	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> , 2019, 804, 230-236.	2.8	65
53	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.	2.8	63
54	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.	1.7	63

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55	Enhanced near-infrared quantum cutting in GdBO <sub>3</sub> :Tb <sup>3+</sup> ,Yb <sup>3+</sup> phosphors by Ce <sup>3+</sup> codoping. <i>Journal of Applied Physics</i> , 2009, 106, .	1.1	62
56	Efficient down- and up-conversion of Pr <sup>3+</sup> –Yb <sup>3+</sup> co-doped transparent oxyfluoride glass ceramics. <i>Journal of Alloys and Compounds</i> , 2012, 513, 139-144.	2.8	62
57	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.	2.0	61
58	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.	1.7	60
59	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.	1.7	59
60	Efficient first-order resonant near-infrared quantum cutting in $\hat{\Gamma}^2$ -NaYF <sub>4</sub> :Ho <sup>3+</sup> ,Yb <sup>3+</sup> . <i>Journal of Alloys and Compounds</i> , 2011, 509, 9919-9923.	2.8	58
61	New red phosphors enable white LEDs to show both high luminous efficacy and color rendering index. <i>Science Bulletin</i> , 2019, 64, 879-880.	4.3	55
62	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.	2.0	54
63	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.	2.8	53
64	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.	1.7	53
65	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> , 2019, 787, 865-871.	2.8	51
66	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.	2.8	50
67	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.	2.0	49
68	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> , 2019, 785, 1198-1205.	2.8	49
69	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> , 2019, 209, 156-162.	1.5	49
70	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.	2.0	48
71	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> , 2019, 208, 75-81.	1.5	48
72	Cyan phosphors for full-visible-spectrum lighting: shining new light on high-CRI white pc-LEDs. <i>Science Bulletin</i> , 2019, 64, 1649-1651.	4.3	47

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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.	2.8	47
74	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> , 2016, 130, 99-105.	2.0	46
75	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.	1.5	46
76	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.	2.8	46
77	Achieving full-visible-spectrum LED lighting via employing an efficient Ce <sup>3+</sup> -activated cyan phosphor. <i>Materials Today Energy</i> , 2020, 17, 100448.	2.5	46
78	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.	1.5	44
79	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.	1.7	44
80	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> , 2019, 211, 388-393.	1.5	43
81	Gd <sub>2</sub> (MoO <sub>4</sub> ) <sub>3</sub> :Er <sup>3+</sup> Nanophosphors for an Enhancement of Silicon Solar-Cell Near-Infrared Response. <i>Journal of Fluorescence</i> , 2009, 19, 285-289.	1.3	42
82	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> , 2020, 222, 117173.	1.5	42
83	Efficient near-infrared down conversion in Zn <sub>2</sub> SiO <sub>4</sub> :Tb <sup>3+</sup> , Yb <sup>3+</sup> thin-films. <i>Journal of Applied Physics</i> , 2009, 105, .	1.1	41
84	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.	1.7	41
85	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> , 2019, 102, 4730-4736.	1.9	41
86	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.	1.7	40
87	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.	1.6	40
88	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.	1.5	38
89	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.	1.5	38
90	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. <i>Journal of Luminescence</i> , 2019, 214, 116525.	1.5	38



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91	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> , 2020, 226, 117474.	1.5	38
92	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.	1.7	37
93	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.	2.0	37
94	Three-photon near-infrared quantum splitting in $\lambda^2$ -NaYF <sub>4</sub> :Ho <sup>3+</sup> . <i>Applied Physics Letters</i> , 2011, 99, .	1.5	36
95	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.	1.6	36
96	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> , 2020, 222, 117177.	1.5	36
97	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. <i>RSC Advances</i> , 2019, 9, 3303-3310.	1.7	34
98	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.	1.7	33
99	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.	1.7	33
100	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.	1.5	33
101	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> , 2020, 225, 117373.	1.5	33
102	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> , 2020, 226, 117408.	1.5	33
103	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 ETQq1,1 0.784314 rgB 29	1.7	29
104	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.	1.7	29
105	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> , 2020, 130, 106349.	2.2	29
106	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> , 2021, 233, 117901.	1.5	29
107	High-brightness cyan-emitting Eu <sup>2+</sup> -activated orthophosphate phosphors for near-UV-pumped white LEDs. <i>Journal of Luminescence</i> , 2022, 243, 118640.	1.5	27
108	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.	3.0	26

#	ARTICLE	IF	CITATIONS
109	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. RSC Advances, 2018, 8, 23323-23331.	1.7	25
110	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. Journal of Luminescence, 2018, 204, 386-393.	1.5	25
111	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.	1.5	24
112	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. Inorganic Chemistry Communication, 2020, 116, 107903.	1.8	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.	1.7	23
114	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. Materials Today Chemistry, 2021, 21, 100512.	1.7	23
115	Utilizing energy transfer strategy to produce efficient green luminescence in Ca <sub>2</sub> LuHf <sub>2</sub> Al <sub>3</sub> O <sub>12</sub> :Ce <sup>3+</sup> ,Tb <sup>3+</sup> garnet phosphors for high-quality near-UV-pumped warm-white LEDs. Journal of Colloid and Interface Science, 2021, 601, 365-377.	5.0	23
116	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. Journal of Luminescence, 2020, 222, 117127.	1.5	22
117	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. Inorganic Chemistry, 2022, 61, 6953-6963.	1.9	22
118	Dazzling Red-Emitting Europium(III) Ion-Doped Ca <sub>2</sub> LaHf <sub>2</sub> Al <sub>3</sub> O <sub>12</sub> Garnet-Type Phosphor Materials with Potential Application in Solid-State White Lighting. Inorganic Chemistry, 2022, 61, 6898-6909.	1.9	22
119	Enhanced three-photon near-infrared quantum splitting in $\text{NaYF}_4:\text{Ho}^{3+}$ by codoping Yb <sup>3+</sup> . AIP Advances, 2012, 2, .	0.6	21
120	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. RSC Advances, 2018, 8, 35187-35194.	1.7	21
121	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. Journal of Materials Science: Materials in Electronics, 2018, 29, 12972-12977.	1.1	21
122	Homogeneous core-shell structure stabilizes Mn <sup>4+</sup> -doped fluoride red phosphors for high-performance warm-white LEDs. Science China Materials, 2019, 62, 1934-1935.	3.5	21
123	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. RSC Advances, 2018, 8, 32948-32955.	1.7	20
124	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. Journal of Luminescence, 2020, 228, 117621.	1.5	20
125	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. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 401, 112765.	2.0	19
126	A sequential two-step near-infrared quantum splitting in Ho <sup>3+</sup> singly doped NaYF <sub>4</sub> . AIP Advances, 2011, 1, .	0.6	18



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127	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> , 2018, 84, 312-317.	1.7	18
128	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> , 2019, 4, 4384-4389.	1.6	18
129	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> , 2020, 220, 117012.	1.5	18
130	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> , 2020, 17, 100487.	2.5	18
131	Multifunctional Zn-Al layered double hydroxides for surface-enhanced Raman scattering and surface-enhanced infrared absorption. <i>Dalton Transactions</i> , 2019, 48, 426-434.	1.6	17
132	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> , 2021, 229, 117685.	1.5	17
133	Ultrabroadband sensitization of near infrared emission through energy transfer from Pb to Yb ions in LiYbMo <sub>2</sub> O <sub>8</sub> :Pb. <i>Journal of Applied Physics</i> , 2010, 108, 083528.	1.1	16
134	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> , 2021, 410, 113166.	2.0	16
135	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.	1.7	14
136	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.	1.7	14
137	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> , 2020, 227, 117544.	1.5	14
138	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> , 2021, 404, 112908.	2.0	14
139	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.	2.0	13
140	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.	1.3	12
141	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.	1.7	11
142	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.	1.1	11
143	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.	1.8	10
144	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.	1.7	8

#	ARTICLE	IF	CITATIONS
145	Full-color persistent luminescence tuning: A marriage of perovskite quantum dots and lanthanide ions. <i>Science China Materials</i> , 2020, 63, 165-166.	3.5	8
146	Synthesis and photoluminescence properties of novel yellow-emitting $\text{Ba}_2\text{Gd}_5\text{Dy}_x\text{B}_5\text{O}_{17}$ phosphors. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 15022-15028.	1.1	7
147	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.	1.7	7
148	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.	3.5	5
149	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.	1.7	5
150	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.	2.3	5
151	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.	1.5	4
152	Realizing efficient ultraviolet emission from $\text{Er}^{3+}$ -sensitized upconversion nanoparticles under 1550 nm excitation. <i>Science Bulletin</i> , 2019, 64, 1295-1297.	4.3	3
153	Finding a Single Lanthanide Ion through Upconversion. <i>ChemPhysChem</i> , 2012, 13, 4095-4097.	1.0	2
154	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.	1.7	2
155	Emerging high-power NIR-emitting phosphor-converted LEDs. <i>Green Energy and Environment</i> , 2021, 6, 617-619.	4.7	1