

# Yahong Jin

## List of Publications by Citations

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68

papers

1,528

citations

24

h-index

36

g-index

71

ext. papers

1,944

ext. citations

5.1

avg, IF

4.82

L-index

#	Paper	IF	Citations
68	A deep red phosphor $\text{Li}_2\text{MgTiO}_4:\text{Mn}^{4+}$ exhibiting abnormal emission: Potential application as color converter for warm w-LEDs. <i>Chemical Engineering Journal</i> , <b>2016</b> , 288, 596-607	14.7	196
67	Multifunctional near-infrared emitting $\text{Cr}^{3+}$ -doped $\text{Mg}_4\text{Ga}_8\text{Ge}_2\text{O}_{20}$ particles with long persistent and photostimulated persistent luminescence, and photochromic properties. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 6614-6625	7.1	85
66	A spatial/temporal dual-mode optical thermometry platform based on synergetic luminescence of $\text{Ti}^{4+}$ - $\text{Eu}^{3+}$ embedded flexible 3D micro-rod arrays: High-sensitive temperature sensing and multi-dimensional high-level secure anti-counterfeiting. <i>Chemical Engineering Journal</i> , <b>2019</b> , 374, 992-1004	14.7	84
65	Trap distribution tailoring guided design of super-long-persistent phosphor $\text{Ba}_2\text{SiO}_4:\text{Eu}^{2+},\text{Ho}^{3+}$ and photostimulable luminescence for optical information storage. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 6058-6067	7.1	66
64	Luminescence Properties of Dual-Emission (UV/Visible) Long Afterglow Phosphor $\text{SrZrO}_3:\text{Pr}^{3+}$ . <i>Journal of the American Ceramic Society</i> , <b>2013</b> , 96, 3821-3827	3.8	63
63	Luminescent properties of $\text{Tb}^{3+}$ -doped $\text{Ca}_2\text{SnO}_4$ phosphor. <i>Journal of Luminescence</i> , <b>2013</b> , 138, 83-88	3.8	48
62	Luminescent properties of a red afterglow phosphor $\text{Ca}_2\text{SnO}_4:\text{Pr}^{3+}$ . <i>Optical Materials</i> , <b>2013</b> , 35, 1378-1384	3.8	47
61	Reversible colorless-cyan photochromism in $\text{Eu}^{2+}$ -doped $\text{Sr}_3\text{YNa}(\text{PO}_4)_3\text{F}$ powders. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 9435-9443	7.1	43
60	The long persistent luminescence properties of phosphors: $\text{Li}_2\text{ZnGeO}_4$ and $\text{Li}_2\text{ZnGeO}_4:\text{Mn}^{2+}$ . <i>RSC Advances</i> , <b>2014</b> , 4, 11360-11366	3.7	39
59	A high color purity deep red emitting phosphor $\text{SrGe}_4\text{O}_9:\text{Mn}^{4+}$ for warm white LEDs. <i>Powder Technology</i> , <b>2016</b> , 292, 74-79	5.2	37
58	A novel emitting color tunable phosphor $\text{Ba}_3\text{Gd}(\text{PO}_4)_3:\text{Ce}^{3+},\text{Tb}^{3+}$ based on energy transfer. <i>Physica B: Condensed Matter</i> , <b>2014</b> , 436, 105-110	2.8	33
57	Design and control of the coloration degree for photochromic $\text{Sr}_3\text{GdNa}(\text{PO}_4)_3\text{F}:\text{Eu}^{2+}$ via traps modulation by $\text{Ln}^{3+}$ ( $\text{Ln} = \text{Y}, \text{La-Sm}, \text{Tb-Lu}$ ) co-doping. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 245, 256-262	8.5	32
56	Preparation, Design, and Characterization of the Novel Long Persistent Phosphors: $\text{Na}_2\text{ZnGeO}_4$ and $\text{Na}_2\text{ZnGeO}_4:\text{Mn}^{2+}$ . <i>Journal of the American Ceramic Society</i> , <b>2015</b> , 98, 1555-1561	3.8	32
55	A single-phase full-color emitting phosphor $\text{Na}_3\text{Sc}_2(\text{PO}_4)_3:\text{Eu}^{2+}/\text{Tb}^{3+}/\text{Mn}^{2+}$ with near-zero thermal quenching and high quantum yield for near-UV converted warm w-LEDs. <i>Journal of the American Ceramic Society</i> , <b>2018</b> , 101, 5627-5639	3.8	32
54	Optically Stimulated Luminescence Phosphors: Principles, Applications, and Prospects. <i>Laser and Photonics Reviews</i> , <b>2020</b> , 14, 2000123	8.3	32
53	Tailoring Multidimensional Traps for Rewritable Multilevel Optical Data Storage. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 35023-35029	9.5	30
52	Photoluminescence, reddish orange long persistent luminescence and photostimulated luminescence properties of praseodymium doped $\text{CdGeO}_3$ phosphor. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 616, 159-165	5.7	30

51	Aliovalent Doping and Surface Grafting Enable Efficient and Stable Lead-Free Blue-Emitting Perovskite Derivative. <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 2000779	8.1	30
50	A novel orange emitting long afterglow phosphor $\text{Ca}_3\text{Si}_2\text{O}_7:\text{Eu}^{2+}$ and the enhancement by $\text{R}^{3+}$ ions ( $\text{R}=\text{Tm}$ , $\text{Dy}$ and $\text{Er}$ ). <i>Materials Letters</i> , <b>2014</b> , 126, 75-77	3.3	28
49	Tunable blue-green color emission and energy transfer properties of $\text{Li}_2\text{CaGeO}_4:\text{Ce}^{3+}$ , $\text{Tb}^{3+}$ phosphors for near-UV white-light LEDs. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 610, 695-700	5.7	27
48	$\text{Cr}^{3+}$ -doped $\text{Mg}_4\text{Ga}_4\text{Ge}_3\text{O}_{16}$ near-infrared phosphor membrane for optical information storage and recording. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 777, 991-1000	5.7	27
47	Crystal field modulation-control, bandgap engineering and shallow/deep traps tailoring-guided design of a color-tunable long-persistent phosphor ( $\text{Ca}$ , $\text{Sr}$ ) $\text{GaO}:\text{Mn}, \text{Bi}$ . <i>Dalton Transactions</i> , <b>2018</b> , 48, 253-265	4.3	26
46	$\text{Ni}^{2+}$ -Doped Yttrium Aluminum Gallium Garnet Phosphors: Bandgap Engineering for Broad-Band Wavelength-Tunable Shortwave-Infrared Long-Persistent Luminescence and Photochromism. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 6543-6550	8.3	26
45	Reversible white and light gray photochromism in europium doped $\text{Zn}_2\text{GeO}_4$ . <i>Materials Letters</i> , <b>2014</b> , 134, 187-189	3.3	25
44	Tunable blue-green color emitting phosphors $\text{Sr}_3\text{YNa}(\text{PO}_4)_3\text{F}:\text{Eu}^{2+}$ , $\text{Tb}^{3+}$ based on energy transfer for near-UV white LEDs. <i>Journal of Luminescence</i> , <b>2017</b> , 185, 106-111	3.8	23
43	Synthesis and Persistent Luminescence Mechanism of a Novel Orange Emitting Persistent Phosphor $\text{Sr}_5(\text{BO}_3)_3\text{Cl}:\text{Eu}^{2+}$ . <i>Journal of the American Ceramic Society</i> , <b>2014</b> , 97, 2573-2579	3.8	22
42	Visible to NIR down-shifting and NIR to visible upconversion luminescence in $\text{Ca}_{14}\text{Zn}_6\text{Ga}_{10}\text{O}_{35}:\text{Mn}^{4+}$ , $\text{Ln}^{3+}$ ( $\text{Ln}=\text{Nd}$ , $\text{Yb}$ , $\text{Er}$ ). <i>Dyes and Pigments</i> , <b>2019</b> , 161, 137-146	4.6	22
41	Luminescent properties of a novel afterglow phosphor $\text{Sr}_3\text{Al}_2\text{O}_5\text{Cl}_2:\text{Eu}^{2+}$ , $\text{Ce}^{3+}$ . <i>Ceramics International</i> , <b>2014</b> , 40, 8229-8236	5.1	19
40	A bifunctional phosphor $\text{Sr}_3\text{Sn}_2\text{O}_7:\text{Eu}^{3+}$ : Red luminescence and photochromism properties. <i>Journal of Luminescence</i> , <b>2017</b> , 192, 337-342	3.8	19
39	Tunable whole visible region color emission, enhancing emission intensity and persistent performance of a self-activated phosphor: $\text{Na}_2\text{CaSn}_2\text{Ge}_3\text{O}_{12}$ . <i>Ceramics International</i> , <b>2018</b> , 44, 18809-18816	5.1	18
38	Synthesis and luminescence properties of a novel yellowish-pink emissive long persistent luminescence phosphor $\text{Cd}_2\text{GeO}_4:\text{Pr}^{3+}$ . <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 623, 255-260	5.7	17
37	Reversible luminescence switching and non-destructive optical readout behaviors of $\text{Sr}_3\text{SnMO}_7:\text{Eu}^{3+}$ ( $\text{M}=\text{Sn}$ , $\text{Si}$ , $\text{Ge}$ , $\text{Ti}$ , $\text{Zr}$ , and $\text{Hf}$ ) driven by photochromism and tuned by partial cation substitution. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 262, 289-297	8.5	17
36	An All-Optical Ratiometric Thermometer Based on Reverse Thermal Response from Interplay among Diverse Emission Centers and Traps with High-Temperature Sensitivity. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 21242-21251	3.9	16
35	Ratiometric optical thermometer based on thermally coupled levels and non-thermally coupled levels. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 894, 162494	5.7	14
34	$\text{LiZnGaGeO}:\text{Cr}$ , $\text{Ti}$ : A Long Persistent Phosphor Excited in a Wide Spectral Region from UV to Red Light for Reproducible Imaging through Biological Tissue. <i>Chemistry - an Asian Journal</i> , <b>2019</b> , 14, 1506-1514	4.5	13

33	Luminescence properties of a novel orange emission long persistent phosphor CaO:Sm <sup>3+</sup> . <i>Optics Communications</i> , <b>2013</b> , 311, 266-269	2	13
32	Ni-Doped Garnet Solid-Solution Phosphor-Converted Broadband Shortwave Infrared Light-Emitting Diodes toward Spectroscopy Application.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2022</b> ,	9.5	13
31	Effects of Ln <sup>3+</sup> (Ln=Ce, Pr, Tb and Lu) doping on the persistent luminescence properties BaMg <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> :Eu <sup>2+</sup> phosphor. <i>Ceramics International</i> , <b>2015</b> , 41, 14998-15004	5.1	12
30	Reversible photoluminescence switching in photochromic material Sr <sub>6</sub> Ca <sub>4</sub> (PO <sub>4</sub> ) <sub>6</sub> F <sub>2</sub> :Eu <sup>2+</sup> and the modified performance by trap engineering via Ln <sup>3+</sup> (Ln = La, Y, Gd, Lu) co-doping for erasable optical data storage. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 6403-6412	7.1	11
29	Preparation and characterization of a long persistent phosphor Na <sub>2</sub> Ca <sub>3</sub> Si <sub>2</sub> O <sub>8</sub> :Ce <sup>3+</sup> . <i>Optical Materials Express</i> , <b>2015</b> , 5, 1488	2.6	10
28	Investigation of reversible photoluminescence switching driven by colorless-purple photochromism in Sr <sub>5</sub> (PO <sub>4</sub> ) <sub>3</sub> F:Eu <sup>2+</sup> for optical storage applications. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 753, 607-614	5.7	10
27	Long persistent phosphor SrZrO <sub>3</sub> :Yb <sup>3+</sup> with dual emission in NUV and NIR region: A combined experimental and first-principles methods. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 766, 663-671	5.7	10
26	Tunable emission and efficient energy-transfer properties of Ce <sup>3+</sup> and Mn <sup>2+</sup> co-doped Ba <sub>3</sub> Gd(PO <sub>4</sub> ) <sub>3</sub> phosphors. <i>Applied Physics A: Materials Science and Processing</i> , <b>2014</b> , 117, 823-829	2.6	10
25	Hybridization of silver orthophosphate with a melilite-type phosphor for enhanced energy-harvesting photocatalysis. <i>Catalysis Science and Technology</i> , <b>2017</b> , 7, 3736-3746	5.5	10
24	Photochromism of Sm <sup>3+</sup> -doped perovskite oxide: Ultrahigh-contrast optical switching and erasable optical recording. <i>Journal of Luminescence</i> , <b>2021</b> , 233, 117922	3.8	9
23	Reversible white-purple photochromism in europium doped Sr <sub>3</sub> GdLi(PO <sub>4</sub> ) <sub>3</sub> F powders. <i>Journal of Luminescence</i> , <b>2017</b> , 186, 238-242	3.8	8
22	Sr <sub>3</sub> YLi(PO <sub>4</sub> ) <sub>3</sub> F:Eu <sup>2+</sup> ,Ln <sup>3+</sup> : colorless-magenta photochromism and coloration degree regulation through Ln <sup>3+</sup> co-doping. <i>RSC Advances</i> , <b>2017</b> , 7, 43700-43707	3.7	8
21	A novel photochromic material based on halophosphate: Remote light-controlled reversible luminescence modulation and fluorescence lifetime regulation. <i>Ceramics International</i> , <b>2019</b> , 45, 5971-5980	5.1	8
20	Sr <sub>3</sub> GdLi(PO <sub>4</sub> ) <sub>3</sub> F:Eu <sup>2+</sup> , Mn <sup>2+</sup> : A tunable blue-white color emitting phosphor via energy transfer for near-UV white LEDs. <i>Ceramics International</i> , <b>2017</b> , 43, 8824-8830	5.1	7
19	Widening the emission spectrum of Eu <sup>2+</sup> in Na <sub>3</sub> Sc <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> to full-color via controlling the multi-emission centers by equivalent substitution of Sc Al and PO <sub>4</sub> -BO <sub>3</sub> . <i>Optical Materials</i> , <b>2019</b> , 88, 635-641	3.3	7
18	Persistent luminescence in the self-activated K <sub>2</sub> Zr(BO <sub>3</sub> ) <sub>2</sub> . <i>RSC Advances</i> , <b>2017</b> , 7, 4190-4195	3.7	6
17	Tunable ultraviolet-B full-spectrum delayed luminescence of bismuth-activated phosphors for high-secure data encryption and decryption. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 902, 163776	5.7	6
16	Flux-assisted low-temperature synthesis of Mn <sup>4+</sup> -doped unusual broadband deep-red phosphors toward warm w-LEDs. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 870, 159394	5.7	6

15	Reversible multiplexing optical information storage and photoluminescence switching in Eu <sup>2+</sup> -doped fluorophosphate-based tunable photochromic materials. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 5930-5944	7.1	6
14	Intrinsic defects and spectral characteristics of SrZrO <sub>3</sub> perovskite. <i>Physica B: Condensed Matter</i> , <b>2018</b> , 534, 105-112	2.8	5
13	The exploration and characterization of an orange emitting long persistent luminescence phosphor LiSr <sub>4</sub> (BO <sub>3</sub> ) <sub>3</sub> :Eu <sup>2+</sup> . <i>Journal of Luminescence</i> , <b>2016</b> , 172, 53-60	3.8	5
12	Strontium substitution enhancing a novel Sm <sup>3+</sup> -doped barium gallate phosphor with bright and red long persistent luminescence. <i>Journal of Luminescence</i> , <b>2020</b> , 218, 116820	3.8	5
11	Persistent luminescence in BaGd <sub>2</sub> O <sub>4</sub> :Dy <sup>3+</sup> : from blue to infrared. <i>Applied Physics A: Materials Science and Processing</i> , <b>2018</b> , 124, 1	2.6	5
10	A Novel Orange Emitting Long Persistent Phosphor CdGeO <sub>3</sub> :Sm <sup>3+</sup> . <i>Science of Advanced Materials</i> , <b>2017</b> , 9, 386-391	2.3	3
9	Photoluminescence and long persistent luminescence properties of a novel green emitting phosphor Sr <sub>3</sub> TaAl <sub>3</sub> Si <sub>2</sub> O <sub>14</sub> :Tb <sup>3+</sup> . <i>Applied Physics A: Materials Science and Processing</i> , <b>2016</b> , 122, 1	2.6	3
8	Multi-site occupation of Cr <sup>3+</sup> toward developing broadband near-infrared phosphors. <i>Ceramics International</i> , <b>2021</b> , 47, 23558-23563	5.1	3
7	Novel yellow color-emitting BaY <sub>2</sub> O <sub>4</sub> :Dy <sup>3+</sup> phosphors: persistent luminescence from blue to red. <i>Applied Physics A: Materials Science and Processing</i> , <b>2020</b> , 126, 1	2.6	2
6	Highly efficient and stable broadband near-infrared-emitting lead-free metal halide double perovskites. <i>Journal of Materials Chemistry C</i> ,	7.1	2
5	Phosphor SrZrO <sub>3</sub> :Sm <sup>3+</sup> with fluorescence modulation and photochromic characteristics for erasable optical storage. <i>Ceramics International</i> , <b>2021</b> ,	5.1	2
4	Luminescence of divalent europium activated spinels synthesized by combustion and the enhanced afterglow by dysprosium incorporation. <i>Physica B: Condensed Matter</i> , <b>2016</b> , 488, 8-12	2.8	1
3	A novel tunable color emitting phosphor Sr <sub>3</sub> YLi(PO <sub>4</sub> ) <sub>3</sub> F:Eu <sup>2+</sup> , Mn <sup>2+</sup> for near-UV white LEDs based on the energy transfer from Eu <sup>2+</sup> to Mn <sup>2+</sup> . <i>Journal of Materials Science: Materials in Electronics</i> , <b>2017</b> , 28, 19139-19147	2.1	1
2	Regulating electron traps of Eu <sup>2+</sup> -doped Ba <sub>1.6</sub> Ca <sub>0.4</sub> SiO <sub>4</sub> persistent and optically stimulated luminescence phosphor toward optical data storage. <i>Journal of Luminescence</i> , <b>2022</b> , 241, 118518	3.8	1
1	A high efficient and anti-thermal dual-emission blue-green phosphors for warm white LEDs. <i>Applied Physics A: Materials Science and Processing</i> , <b>2020</b> , 126, 1	2.6	1