

Yahong Jin

List of Publications by Year in descending order

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papers

2,392
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times ranked

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#	ARTICLE	IF	CITATIONS
1	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> , 2016, 288, 596-607.	6.6	251
2	A spatial/temporal dual-mode optical thermometry platform based on synergetic luminescence of Ti^{4+} - 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> , 2019, 374, 992-1004.	6.6	142
3	Multifunctional near-infrared emitting 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> , 2016, 4, 6614-6625.	2.7	120
4	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> , 2018, 6, 6058-6067.	2.7	100
5	A review and outlook of ratiometric optical thermometer based on thermally coupled levels and non-thermally coupled levels. <i>Journal of Alloys and Compounds</i> , 2022, 894, 162494.	2.8	84
6	Luminescence Properties of Dual-Emission (UV/Visible) Long Afterglow Phosphor $\text{SrZrO}_3:\text{Pr}^{3+}$. <i>Journal of the American Ceramic Society</i> , 2013, 96, 3821-3827.	1.9	75
7	Optically Stimulated Luminescence Phosphors: Principles, Applications, and Prospects. <i>Laser and Photonics Reviews</i> , 2020, 14, 2000123.	4.4	73
8	Aliovalent Doping and Surface Grafting Enable Efficient and Stable Lead-Free Blue-Emitting Perovskite Derivative. <i>Advanced Optical Materials</i> , 2020, 8, 2000779.	3.6	68
9	Ni^{2+} -Doped Garnet Solid-Solution Phosphor-Converted Broadband Shortwave Infrared Light-Emitting Diodes toward Spectroscopy Application. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 4265-4275.	4.0	68
10	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> , 2020, 8, 6543-6550.	3.2	64
11	Luminescent properties of a red afterglow phosphor $\text{Ca}_2\text{SnO}_4:\text{Pr}^{3+}$. <i>Optical Materials</i> , 2013, 35, 1378-1384.	1.7	59
12	Tailoring Multidimensional Traps for Rewritable Multilevel Optical Data Storage. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 35023-35029.	4.0	56
13	Reversible colorless-cyan photochromism in Eu^{2+} -doped $\text{Sr}_3\text{YNa}(\text{PO}_4)_3\text{F}$ powders. <i>Journal of Materials Chemistry C</i> , 2015, 3, 9435-9443.	2.7	55
14	Luminescent properties of Tb^{3+} -doped Ca_2SnO_4 phosphor. <i>Journal of Luminescence</i> , 2013, 138, 83-88.	1.5	53
15	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> , 2014, 4, 11360-11366.	1.7	49
16	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 Ln^{3+} ($\text{Ln} = \text{Y}, \text{La-Sm}, \text{Tb-Lu}$) co-doping. <i>Sensors and Actuators B: Chemical</i> , 2017, 245, 256-262.	4.0	49
17	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> , 2018, 101, 5627-5639.	1.9	46
18	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> , 2019, 777, 991-1000.	2.8	43

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19	A high color purity deep red emitting phosphor SrGe ₄ O ₉ :Mn ⁴⁺ for warm white LEDs. Powder Technology, 2016, 292, 74-79.	2.1	41
20	Crystal field modulation-control, bandgap engineering and shallow/deep traps tailoring-guided design of a color-tunable long-persistent phosphor (Ca, Tj) ETQqO ₀ 0 0 rgBT /Overlock 10 Tf 50 702 Td (Sr)Ga ₄ O ₈ :Mn ²⁺ . 253-265.	1.6	38
21	A novel emitting color tunable phosphor Ba ₃ Gd(PO ₄) ₃ : Ce ³⁺ , Tb ³⁺ based on energy transfer. Physica B: Condensed Matter, 2014, 436, 105-110.	1.3	37
22	Preparation, Design, and Characterization of the Novel Long Persistent Phosphors: Na ₂ ZnGeO ₄ and Na ₂ ZnGeO ₄ :Mn ²⁺ . Journal of the American Ceramic Society, 2015, 98, 1555-1561.	1.9	37
23	Photoluminescence, reddish orange long persistent luminescence and photostimulated luminescence properties of praseodymium doped CdGeO ₃ phosphor. Journal of Alloys and Compounds, 2014, 616, 159-165.	2.8	36
24	Multi-site occupation of Cr ³⁺ toward developing broadband near-infrared phosphors. Ceramics International, 2021, 47, 23558-23563.	2.3	33
25	Luminescent properties of a novel afterglow phosphor Sr ₃ Al ₂ O ₅ Cl ₂ :Eu ²⁺ , Ce ³⁺ . Ceramics International, 2014, 40, 8229-8236.	2.3	31
26	Visible to NIR down-shifting and NIR to visible upconversion luminescence in Ca ₁₄ Zn ₆ Ga ₁₀ O ₃₅ :Mn ⁴⁺ , Ln ³⁺ (Ln=Nd, Yb, Er). Dyes and Pigments, 2019, 161, 137-146.	2.0	31
27	A novel orange emitting long afterglow phosphor Ca ₃ Si ₂ O ₇ :Eu ²⁺ and the enhancement by R ³⁺ ions (R=Tm, Dy and Er). Materials Letters, 2014, 126, 75-77.	1.3	29
28	Tunable blue-green color emission and energy transfer properties of Li ₂ CaGeO ₄ :Ce ³⁺ , Tb ³⁺ phosphors for near-UV white-light LEDs. Journal of Alloys and Compounds, 2014, 610, 695-700.	2.8	29
29	Flux-assisted low-temperature synthesis of Mn ⁴⁺ -doped unusual broadband deep-red phosphors toward warm w-LEDs. Journal of Alloys and Compounds, 2021, 870, 159394.	2.8	29
30	Reversible white and light gray photochromism in europium doped Zn ₂ GeO ₄ . Materials Letters, 2014, 134, 187-189.	1.3	28
31	Lanthanide-doped Mn ²⁺ -based perovskite-like single crystals: Switching on highly thermal-stable near-infrared emission and LED device. Journal of Colloid and Interface Science, 2022, 624, 725-733.	5.0	28
32	A bifunctional phosphor Sr ₃ Sn ₂ O ₇ :Eu ³⁺ : Red luminescence and photochromism properties. Journal of Luminescence, 2017, 192, 337-342.	1.5	27
33	Tunable whole visible region color emission, enhancing emission intensity and persistent performance of a self-activated phosphor:Na ₂ CaSn ₂ Ge ₃ O ₁₂ . Ceramics International, 2018, 44, 18809-18816.	2.3	25
34	Reversible luminescence switching and non-destructive optical readout behaviors of Sr ₃ SnMO ₇ : Eu ³⁺ (M=Sn, Si, Ge, Ti, Zr, and Hf) driven by photochromism and tuned by partial cation substitution. Sensors and Actuators B: Chemical, 2018, 262, 289-297.	4.0	24
35	Synthesis and luminescence properties of a novel yellowish-pink emissive long persistent luminescence phosphor Cd ₂ GeO ₄ :Pr ³⁺ . Journal of Alloys and Compounds, 2015, 623, 255-260.	2.8	23
36	Tunable blue-green color emitting phosphors Sr ₃ YNa(PO ₄) ₃ F:Eu ²⁺ , Tb ³⁺ based on energy transfer for near-UV white LEDs. Journal of Luminescence, 2017, 185, 106-111.	1.5	23

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37	Synthesis and Persistent Luminescence Mechanism of a Novel Orange Emitting Persistent Phosphor $\text{Sr}_5(\text{BO}_3)_3\text{Cl}_2$. <i>Journal of the American Ceramic Society</i> , 2014, 97, 2573-2579.	1.9	21
38	An All-Optical Ratiometric Thermometer Based on Reverse Thermal Response from Interplay among Diverse Emission Centers and Traps with High-Temperature Sensitivity. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 21242-21251.	1.8	21
39	Luminescence properties of a novel orange emission long persistent phosphor $\text{CaO}:\text{Sm}^{3+}$. <i>Optics Communications</i> , 2013, 311, 266-269.	1.0	19
40	Reversible photoluminescence switching in photochromic material $\text{Sr}_6\text{Ca}_4(\text{PO}_4)_6\text{F}_2:\text{Eu}^{2+}$ and the modified performance by trap engineering <i>via</i> Ln^{3+} ($\text{Ln} = \text{La}, \text{Y}, \text{Gd}, \text{Lu}$) co-doping for erasable optical data storage. <i>Journal of Materials Chemistry C</i> , 2020, 8, 6403-6412.	2.7	19
41	Reversible multiplexing optical information storage and photoluminescence switching in Eu^{2+} -doped fluorophosphate-based tunable photochromic materials. <i>Journal of Materials Chemistry C</i> , 2021, 9, 5930-5944.	2.7	18
42	Hybridization of silver orthophosphate with a melilite-type phosphor for enhanced energy-harvesting photocatalysis. <i>Catalysis Science and Technology</i> , 2017, 7, 3736-3746.	2.1	16
43	Investigation of reversible photoluminescence switching driven by colorless-purple photochromism in $\text{Sr}_5(\text{PO}_4)_3\text{F}:\text{Eu}^{2+}$ for optical storage applications. <i>Journal of Alloys and Compounds</i> , 2018, 753, 607-614.	2.8	16
44	$\text{Li}_5\text{Zn}_8\text{Ga}_5\text{Ge}_9\text{O}_{36}:\text{Cr}^{3+}, \text{Ti}^{4+}$: 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> , 2019, 14, 1506-1514.	1.7	16
45	Photochromism of Sm^{3+} -doped perovskite oxide: Ultrahigh-contrast optical switching and erasable optical recording. <i>Journal of Luminescence</i> , 2021, 233, 117922.	1.5	16
46	Strontium substitution enhancing a novel Sm^{3+} -doped barium gallate phosphor with bright and red long persistent luminescence. <i>Journal of Luminescence</i> , 2020, 218, 116820.	1.5	15
47	Inorganic photochromism material $\text{SrHfO}_3:\text{Er}^{3+}$ integrating multiple optical behaviors for multimodal anti-counterfeiting. <i>Journal of Alloys and Compounds</i> , 2022, 921, 166081.	2.8	15
48	Effects of Ln^{3+} ($\text{Ln}=\text{Ce}, \text{Pr}, \text{Tb}$ and Lu) doping on the persistent luminescence properties $\text{BaMg}_2(\text{PO}_4)_2:\text{Eu}^{2+}$ phosphor. <i>Ceramics International</i> , 2015, 41, 14998-15004.	2.3	13
49	A novel photochromic material based on halophosphate: Remote light-controlled reversible luminescence modulation and fluorescence lifetime regulation. <i>Ceramics International</i> , 2019, 45, 5971-5980.	2.3	13
50	Highly efficient and stable broadband near-infrared-emitting lead-free metal halide double perovskites. <i>Journal of Materials Chemistry C</i> , 2021, 9, 13474-13483.	2.7	13
51	Preparation and characterization of a long persistent phosphor $\text{Na}_2\text{Ca}_3\text{Si}_2\text{O}_8:\text{Ce}^{3+}$. <i>Optical Materials Express</i> , 2015, 5, 1488.	1.6	12
52	$\text{Sr}_3\text{YLi}(\text{PO}_4)_3\text{F}:\text{Eu}^{2+}, \text{Ln}^{3+}$: colorless-magenta photochromism and coloration degree regulation through Ln^{3+} co-doping. <i>RSC Advances</i> , 2017, 7, 43700-43707.	1.7	12
53	Long persistent phosphor $\text{SrZrO}_3:\text{Yb}^{3+}$ with dual emission in NUV and NIR region: A combined experimental and first-principles methods. <i>Journal of Alloys and Compounds</i> , 2018, 766, 663-671.	2.8	12
54	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> , 2022, 902, 163776.	2.8	12

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55	Reversible white-purple photochromism in europium doped Sr ₃ GdLi(PO ₄) ₃ F powders. Journal of Luminescence, 2017, 186, 238-242.	1.5	11
56	Tunable emission and efficient energy-transfer properties of Ce ³⁺ and Mn ²⁺ co-doped Ba ₃ Gd(PO ₄) ₃ phosphors. Applied Physics A: Materials Science and Processing, 2014, 117, 823-829.	1.1	10
57	Widening the emission spectrum of Eu ²⁺ in Na ₃ Sc ₂ (PO ₄) ₃ to full-color via controlling the multi-emission centers by equivalent substitution of Sc Al and PO ₄ -BO ₃ . Optical Materials, 2019, 88, 635-641.	1.7	10
58	Phosphor SrZrO ₃ :Sm ³⁺ with fluorescence modulation and photochromic characteristics for erasable optical storage. Ceramics International, 2022, 48, 1836-1843.	2.3	10
59	Intrinsic defects and spectral characteristics of SrZrO ₃ perovskite. Physica B: Condensed Matter, 2018, 534, 105-112.	1.3	9
60	Sr ₃ GdLi(PO ₄) ₃ F:Eu ²⁺ , Mn ²⁺ : A tunable blue-white color emitting phosphor via energy transfer for near-UV white LEDs. Ceramics International, 2017, 43, 8824-8830.	2.3	8
61	Persistent luminescence in BaGd ₂ O ₄ :Dy ³⁺ : from blue to infrared. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	1.1	8
62	Persistent luminescence in the self-activated K ₂ Zr(BO ₃) ₂ . RSC Advances, 2017, 7, 4190-4195.	1.7	7
63	The exploration and characterization of an orange emitting long persistent luminescence phosphor LiSr ₄ (BO ₃) ₃ :Eu ²⁺ . Journal of Luminescence, 2016, 172, 53-60.	1.5	6
64	Novel yellow color-emitting BaY ₂ O ₄ :Dy ³⁺ phosphors: persistent luminescence from blue to red. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	1.1	6
65	Photoluminescence and long persistent luminescence properties of a novel green emitting phosphor Sr ₃ TaAl ₃ Si ₂ O ₁₄ :Tb ³⁺ . Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	5
66	Regulating electron traps of Eu ²⁺ -doped Ba _{1.6} Ca _{0.4} SiO ₄ persistent and optically stimulated luminescence phosphor toward optical data storage. Journal of Luminescence, 2022, 241, 118518.	1.5	5
67	A Novel Orange Emitting Long Persistent Phosphor CdGeO ₃ :Sm ³⁺ . Science of Advanced Materials, 2017, 9, 386-391.	0.1	4
68	A thermal-stable Mn ⁴⁺ -doped far-red-emitting phosphor-converted LED for indoor plant cultivation. Materials Today Chemistry, 2022, 26, 101010.	1.7	4
69	Luminescence of divalent europium activated spinels synthesized by combustion and the enhanced afterglow by dysprosium incorporation. Physica B: Condensed Matter, 2016, 488, 8-12.	1.3	2
70	A novel tunable color emitting phosphor Sr ₃ YLi(PO ₄) ₃ F:Eu ²⁺ , Mn ²⁺ for near-UV white LEDs based on the energy transfer from Eu ²⁺ to Mn ²⁺ . Journal of Materials Science: Materials in Electronics, 2017, 28, 19139-19147.	1.1	2
71	A high efficient and anti-thermal dual-emission blue-green phosphors for warm white LEDs. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	1.1	1