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Long persistent phosphors--from fundamentals to application

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#	Paper	IF	Citations
803	One-Dimensional Luminous Nanorods Featuring Tunable Persistent Luminescence for Autofluorescence-Free Biosensing.		
802	Chemically engineered persistent luminescence nanoprobes for bioimaging. <b>2016</b> , 6, 2488-2524		131
801	ChemInform Abstract: Long Persistent Phosphors [From Fundamentals to Applications. <b>2016</b> , 47, no		
800	All in One - Complete Issue: ChemInform 22/2016. <b>2016</b> , 47, no		
799	Rapid and Energy-Saving Microwave-Assisted Solid-State Synthesis of Pr(3+)-, Eu(3+)-, or Tb(3+)-Doped Lu <sub>2</sub> O <sub>3</sub> Persistent Luminescence Materials. <b>2016</b> , 8, 19593-604		60
798	Superlong and Color-Tunable Red Persistent Luminescence and Photostimulated Luminescence Properties of NaCaGeOF:Mn,Yb Phosphor. <b>2016</b> , 55, 12822-12831		48
797	Circularly Polarized Persistent Room-Temperature Phosphorescence from Metal-Free Chiral Aromatics in Air. <b>2016</b> , 7, 1539-45		72
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170	Sustainable afterglow room-temperature phosphorescence emission materials generated using natural phenolics.. <b>2022</b> ,	1
169	Long afterglow phosphor driven g-C <sub>3</sub> N <sub>4</sub> photocatalyst for continuous water purification under light and dark conditions. <b>2022</b> , 310, 123057	0
168	Design, synthesis and mechanism of green afterglow phosphors Zn <sub>4</sub> B <sub>6</sub> O <sub>13</sub> :Mn <sup>2+</sup> doped with Ln <sup>3+</sup> (Ln=Er, Sm, Yb, Eu) guided by VRBE. <b>2022</b> , 906, 164268	0
167	Synthesis and luminescence characterization of aqueous stable Sr <sub>3</sub> MgSi <sub>2</sub> O <sub>8</sub> : Eu <sup>2+</sup> , Dy <sup>3+</sup> long afterglow nanophosphor for low light illumination. <b>2022</b> , 310, 123089	1
166	Enhanced orange persistence in Sr <sub>3</sub> Al <sub>2</sub> O <sub>5</sub> Cl <sub>2</sub> :Eu <sup>2+</sup> , Dy <sup>3+</sup> phosphor by Mg <sup>2+</sup> substitution in Sr <sup>2+</sup> lattice site. <b>2022</b> , 910, 164896	0
165	Room Temperature Phosphorescent (RTP) Thermoplastic Elastomers with Dual and Variable RTP Emission, Photo-Patterning Memory Effect, and Dynamic Deformation RTP Response.. <b>2021</b> , e2103402	4
164	Facile and Controllable Synthesis of the Renal-Clearable "Luminous Pearls" for Afterglow/Magnetic Resonance Imaging.. <b>2021</b> ,	4
163	Tunable Second-Level Room-Temperature Phosphorescence of Solid Supramolecules Between Acrylamide-Phenylpyridium Copolymers and Cucurbit[7]uril. <b>2021</b> ,	9
162	A pH-Responsive Persistent Luminescence Nanozyme for Selective Imaging and Killing of and Common Resistant Bacteria.. <b>2021</b> , 13, 60955-60965	5
161	Tunable Second-Level Room-Temperature Phosphorescence of Solid Supramolecules between Acrylamide-Phenylpyridium Copolymers and Cucurbit[7]uril. <b>2022</b> , 134,	
160	UV-Red Light-Chargeable Near-Infrared-Persistent Phosphors and Their Applications.. <b>2021</b> ,	7
159	Ratiometric afterglow luminescent nanoplatform enables reliable quantification and molecular imaging.. <b>2022</b> , 13, 2216	7
158	Manipulating Room-temperature Phosphorescence via Lone-pair Electrons and Empty-orbital Arrangements and Hydrogen Bonds Adjusting.	0
157	Ultralong Room Temperature Phosphorescence and Ultraviolet Fluorescence from a Simple Triaryl Phosphine oxides.	3

156	The Multifunctional System for Investigation of Luminescence Phenomena in Storage Phosphors. <b>2022,</b>	
155	Recent advances of room temperature phosphorescence and long persistent luminescence by doping system of purely organic molecules. <b>2022,</b> 110400	1
154	Review on Long Afterglow Nanophosphors, their Mechanism and its Application in Round-the-Clock Working Photocatalysis.. <b>2022,</b>	1
153	Persistent X-ray-activated phosphors: mechanisms and applications.. <b>2022,</b> 11, 123	6
152	Sunlight activated ultra-stable long persistent luminescence glass ceramic for outdoor information display. <b>2022,</b> 11, 974	0
151	Ultralong Organic Phosphorescence Modulation of Aromatic Carbonyls and Multi-Component Systems.	1
150	HKUST-1 Nano-Metal-Organic Frameworks Combined with ZnGa <sub>2</sub> O <sub>4</sub> : Cr <sup>3+</sup> Near-Infrared Persistent Luminescence Nanoparticles for Vivo Imaging and Tumor Chemodynamic & Photothermal Synergic Therapy.	0
149	Color-tunable persistent luminescence in 1D zincorganic halide microcrystals for single-component white light and temperature-gating optical waveguides.	8
148	Effectively Unlocking the Potential Molecular Room Temperature Phosphorescence of Pure Carbazole Derivatives. 2200090	0
147	Repetitive afterglow in zirconia by pulsed near-infrared irradiation toward biological temperature sensing. <b>2022,</b> 12,	0
146	Transition metal ion activated near-infrared luminescent materials. <b>2022,</b> 129, 100973	3
145	Luminescence studies of Eu <sup>3+</sup> doped calcium magnesium silicate phosphor prepared at different annealing temperatures for fine color tunability. <b>2022,</b> 249, 119038	0
144	Supramolecular Assembly Confined Purely Organic Room Temperature Phosphorescence and Its Biological Imaging.	7
143	Controlling X-ray-activated persistent luminescence for emerging applications. <b>2022,</b>	7
142	Accessing Excitation- and Time-Responsive Afterglows from Aqueous Processable Amorphous Polymer Films through Doping and Energy Transfer. 2202182	1
141	Zinc Germanate Nanophosphors with Persistent Luminescence for Multi-Mode Imaging of Latent Fingerprints.	2
140	Quadruple Anticounterfeiting Encryption: Anion-Modulated Forward and Reverse Excitation-Dependent Multicolor Afterglow in Two-Component Ionic Crystals.	2
139	Preparation and optical properties of CaYAl <sub>3</sub> O <sub>7</sub> :Eu <sup>2+</sup> , Dy <sup>3+</sup> phosphors with blue long afterglow luminescence. <b>2022,</b> 114857	

138	Demonstration of hierarchical arrangement of persistent luminescent microparticles in direct doping-prepared photonics glasses using second-harmonic generation microscopy.	0
137	A multicolor-emitted phosphor for temperature sensing and multimode dynamic anti-counterfeiting.	1
136	Catalytic radiosensitization: Insights from materials physicochemistry. <b>2022</b> ,	2
135	Room temperature phosphorescence of heavy-atom-free indole carboxylic acid/polyacrylamide: Low cost, long lifetime and good luminescent efficiency. <b>2022</b> , 205, 110481	0
134	Effect of the properties of long afterglow phosphors on the antifouling performance of silicone fouling-release coating. <b>2022</b> , 170, 106965	2
133	Achieving opto-responsive multimode luminescence in Zn <sup>1+</sup> Ga <sup>2+</sup> GeO <sub>4</sub> :Mn persistent phosphors for advanced anti-counterfeiting and information encryption. <b>2022</b> , 27, 100765	3
132	Novel broadband near-infrared emitting long afterglow phosphor MgGeO <sub>3</sub> : Cr <sup>3+</sup> . <b>2022</b> , 918, 165768	0
131	Exploration of commercially available phosphors for thermoluminescence dosimetry. <b>2022</b> , 71-98	
130	Rare-earth-activated phosphors for drug delivery. <b>2022</b> , 365-388	
129	?????????????????????. <b>2022</b> ,	0
128	Synthesis and Luminescence Characterization of Downconversion and Downshifting Phosphor for Efficiency Enhancement of Solar Cells: Perspectives and Challenges.	
127	Tuneable persistent luminescence of novel Mg <sub>3</sub> Y <sub>2</sub> Ge <sub>3</sub> O <sub>12</sub> garnet. <b>2022</b> , 166312	
126	Effect of Nd concentration on persistent luminescence of Y <sub>3</sub> Al <sub>2</sub> Ga <sub>3</sub> O <sub>12</sub> :Ce <sup>3+</sup> ,Cr <sup>3+</sup> ,Nd <sup>3+</sup> ceramics for the near-infrared region. <b>2022</b> , 250, 119115	0
125	Short wavelength persistent luminescence in the ultraviolet A region from a novel phosphor. <b>2022</b> , 251, 119103	1
124	Optical properties of novel luminescent nacre-like epoxy/graphene nanocomposite coating integrated with lanthanide-activated aluminate nanoparticles.	0
123	Photo-stimuli-responsive Organic Room-Temperature Phosphorescent Materials. 1599-1615	2
122	A biomineral-inspired approach of synthesizing colloidal persistent phosphors as a multicolor, intravital light source. <b>2022</b> , 8,	0
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119	Enhanced Charge Separation for Efficient Photocatalytic H <sub>2</sub> Production by Long-Lived Trap-State-Induced Interfacial Charge Transfer. <b>2022</b> , 22, 6664-6670	0
118	Germanium silicon oxide achieves multi-coloured ultra-long phosphorescence and delayed fluorescence at high temperature. <b>2022</b> , 13,	1
117	Defect levels of 3d transition-metal series in wide-gap oxide and fluoride insulators: A first-principles study. <b>2022</b> , 106,	
116	Two-Dimensional Hybrid Perovskitoid Micro/nanosheets: Colorful Ultralong Phosphorescence, Delayed Fluorescence, and Anisotropic Optical Waveguide.	0
115	Excitation and spectral dependence of the rise and decay time responses of Eu <sup>2+</sup> - and Dy <sup>3+</sup> -doped strontium aluminates.	
114	First-principles study on persistent luminescence mechanism of LiYGeO <sub>4</sub> :Eu <sup>3+</sup> . <b>2022</b> ,	0
113	Long-lasting photocatalytic activity of trace phosphorus-doped g-C <sub>3</sub> N <sub>4</sub> /SMSO and its application in antibacterial ceramics. <b>2022</b> , 242, 113951	0
112	Optical properties of near infrared persistent phosphor CaZnGe <sub>2</sub> O <sub>6</sub> : Cr <sup>3+</sup> , M <sup>3+</sup> (M <sup>3+</sup> = B <sup>3+</sup> ; Al <sup>3+</sup> ; Ga <sup>3+</sup> ). <b>2022</b> , 354, 114894	1
111	Effects of Mg <sup>2+</sup> on enhancing luminescence efficiency for a red long persistent phosphor [Zn <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> : Mn <sup>2+</sup> . <b>2022</b> , 144, 109890	
110	Designing X-ray-Excited UVC Persistent Luminescent Material via Band Gap Engineering and Its Application to Anti-Counterfeiting and Information Encryption. <b>2022</b> , 14, 41215-41224	0
109	(M,Ca)AlSiN <sub>3</sub> :Eu <sup>2+</sup> (M=Sr, Mg) long persistent phosphors prepared by combustion synthesis and applications in displays and optical information storage. <b>2022</b> , 252, 119288	0
108	Two-stage ultra-broadband luminescence of Cr <sup>3+</sup> -doped multisite layered phosphor Sr <sub>3</sub> Ga <sub>2</sub> Ge <sub>4</sub> O <sub>14</sub> and its application in pc-LEDs. <b>2022</b> , 26, 101102	2
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106	Highly efficient multifunctional frosted luminescent solar concentrators with zero-energy nightscape lighting.	0
105	Synthesis and characterization of a near-infrared persistent luminescent Cr-doped zinc gallate/calcium phosphate composite. <b>2022</b> , 24, 21131-21140	0
104	Phase modulated scanning near field optical luminescence imaging as a probe of exciton dark lifetime and diffusivity in persistently luminescent micro- and nanocrystals. <b>2022</b> , 10, 12975-12985	0
103	Sc Dopant Induced Tailoring of Persistent Luminescence in Na <sub>3</sub> YSi <sub>3</sub> O <sub>9</sub> :Eu <sup>2+</sup> For Information Recording.	1



102	Enhancing the luminescence performance of $\text{Ca}_2\text{Sr}_x\text{BO}_3\text{Cl}:\text{Eu}^{2+},\text{Dy}^{3+}$ by substitution of $\text{Sr}^{2+}$ for $\text{Ca}^{2+}$ . <b>2022</b> , 10, 12266-12275	0
101	Delayed luminescence from mesoscopic scattering media. <b>2022</b> ,	0
100	Oxygen Vacancy-Rich $\text{Sr}_2\text{MgSi}_2\text{O}_7:\text{Eu}^{2+},\text{Dy}^{3+}$ Long Afterglow Phosphor as a Round-the-Clock Catalyst for Selective Reduction of $\text{CO}_2$ to CO. 2208565	0
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98	Luminescence properties of multicolor emitting $\text{La}_4\text{GeO}_8:\text{Tb}^{3+},\text{Eu}^{3+}$ phosphors. <b>2022</b> ,	0
97	Application of MOF-based nanotherapeutics in light-mediated cancer diagnosis and therapy. <b>2022</b> , 20,	2
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91	Highly Stable Orange-Red Long-Persistent Luminescent $\text{CsCdCl}_3:\text{Mn}^{2+}$ Perovskite Crystal.	0
90	Color-tunable and high-quantum-yield afterglow of carbon dots by covalent fixation. <b>2022</b> , 119399	1
89	Highly Stable Orange-Red Long-Persistent Luminescent $\text{CsCdCl}_3:\text{Mn}^{2+}$ Perovskite Crystal.	4
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- 83 Multi behaviors of Dy<sup>3+</sup> for improving the luminescence properties of Pr<sup>3+</sup>-activated Sr<sub>3</sub>Al<sub>2</sub>O<sub>6</sub> orange-reddish phosphors. **2022**, 807, 140071 0
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- 74 Roles of Nd<sup>3+</sup> in enhancing Mn<sup>2+</sup>-Activated SrZn<sub>2</sub>(PO<sub>4</sub>)<sub>2</sub> long persistent phosphor. **2022**, 119475 0
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64	Preparation of transparent photoluminescence plastic concrete integrated with lanthanide aluminate. <b>2022</b> ,	0
63	Recent Trends and Developments in Multifunctional Nanoparticles for Cancer Theranostics. <b>2022</b> , 27, 8659	1
62	X-ray-Excited Long-Lasting Narrowband Ultraviolet-B Persistent Luminescence from Gd <sup>3+</sup> -Doped Sr <sub>2</sub> P <sub>2</sub> O <sub>7</sub> Phosphor. <b>2022</b> , 61, 20647-20656	0
61	UV-A,B,C Emitting Persistent Luminescent Materials. <b>2023</b> , 16, 236	2
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