

UV, Blue, Green, Yellow, Red, and Small: Newest Developments in Nanophosphors

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Citation Report

#	ARTICLE	IF	CITATIONS
1	One-step structure-directing approach to Ce ³⁺ -doped CaS luminescent micro-nanocrystals. CrystEngComm, 2015, 17, 8676-8682.	1.3	3
2	Tuning Mixed-valent Eu ²⁺ /Eu ³⁺ in Strontium Formate Frameworks for Multichannel Photoluminescence. Chemistry - A European Journal, 2016, 22, 11170-11175.	1.7	37
3	Small-size and monodispersed red-emitting Pr ³⁺ doped barium molybdate nanocrystals with ultrahigh color purity. RSC Advances, 2016, 6, 65311-65314.	1.7	11
4	Near-white emission observed in Dy doped AlN. RSC Advances, 2016, 6, 54801-54805.	1.7	5
5	Controllable Eu valence for photoluminescence tuning in apatite-typed phosphors by the cation cosubstitution effect. Chemical Communications, 2016, 52, 7376-7379.	2.2	38
6	The structural evolution and spectral blue shift of solid solution phosphors Sr _{3-3x} Ca _x B ₂ O ₆ :Eu ²⁺ . CrystEngComm, 2016, 18, 4597-4603.	1.3	13
7	Novel multi-functional europium-doped gadolinium oxide nanoparticle aerosols facilitate the study of deposition in the developing rat lung. Nanoscale, 2016, 8, 11518-11530.	2.8	9
8	Fluorescence properties with red-shift of Eu ²⁺ emission in novel phosphor-silicate apatite Sr ₃ LaNa(PO ₄) ₂ SiO ₄ phosphors. Ceramics International, 2016, 42, 18324-18332.	2.3	21
9	Solution Combustion Synthesis of Nanoscale Materials. Chemical Reviews, 2016, 116, 14493-14586.	23.0	933
10	Eu ²⁺ luminescence in Ca ₃ Si ₂ O ₇ and spectral widening and tuning of Eu ²⁺ emission color (orangish-red to green) by crystal chemical substitution. RSC Advances, 2016, 6, 98652-98662.	1.7	27
11	All-Copper Nanocluster Based Down-Conversion White Light-Emitting Devices. Advanced Science, 2016, 3, 1600182.	5.6	89
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13	Synthesis and Luminescence Properties of Novel Ce ³⁺ - and Eu ²⁺ -Doped Lanthanum Bromothiosilicate La ₃ Br(Si ₄) ₂ Phosphors for White LEDs. ACS Applied Materials & Interfaces, 2016, 8, 9218-9223.	4.0	61
14	Long-afterglow metal-organic frameworks: reversible guest-induced phosphorescence tunability. Chemical Science, 2016, 7, 4519-4526.	3.7	376
15	Photoluminescence properties of Yb ²⁺ ions doped in the perovskites CsCaX ₃ and CsSrX ₃ (X = Cl, Br, and I) – a comparative study. Physical Chemistry Chemical Physics, 2016, 18, 13196-13208.	1.3	50
16	Long persistent phosphors – from fundamentals to applications. Chemical Society Reviews, 2016, 45, 2090-2136.	18.7	943
17	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
18	Development of a new in situ analysis technique applying luminescence of local coordination sensors: principle and application for monitoring metal-ligand exchange processes. Analyst, The, 2016, 141, 2588-2594.	1.7	21

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20	Red/Blue-Shift Dual-Directional Regulation in Blue-Emitting Ca _{0.8} Ba _{1.2} SiO ₄ :Eu ²⁺ Phosphor on Incorporation of Eu ²⁺ /Mg ²⁺ Ions. Journal of Electronic Materials, 2017, 46, 1777-1786.	1.0	9
21	Self-assembly of stable luminescent lanthanide supramolecular M ₄ L ₆ cages with sensing properties toward nitroaromatics. Chemical Communications, 2017, 53, 2459-2462.	2.2	78
22	Influence of Anion/Cation Substitution (Sr ²⁺ , Ba ²⁺ , Al ³⁺) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 437 T Properties of Ba ₃ Si ₆ O ₁₅ :Eu ²⁺ Phosphors. Chemistry of Materials, 2017, 29, 1813-1829.	3.2	118
23	Lanthanide-Activated Phosphors Based on 4f-5d Optical Transitions: Theoretical and Experimental Aspects. Chemical Reviews, 2017, 117, 4488-4527.	23.0	702
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26	Aloe-vera Mediated Synthesis of Eu ³⁺ doped CaIn ₂ O ₄ -carbon Hybrid Nanostructure and its Light Emission Properties. MRS Advances, 2017, 2, 141-146.	0.5	1
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30	Homogeneous cationic substitution for two-dimensional layered metal oxide nanosheets via a galvanic exchange reaction. Nanoscale, 2017, 9, 792-801.	2.8	13
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33	Synthesis, optical properties and applications of light-emitting copper nanoclusters. Nanoscale Horizons, 2017, 2, 135-146.	4.1	184
34	Effect of preparation conditions in sol-gel method on yellow phosphor with wide spectrum. AIP Advances, 2017, 7, .	0.6	4
35	Improvement of thermal stability and photoluminescence in Sr _{0.8} Ca _{0.2} Al ₂ Si ₂ O ₈ :Eu ²⁺ by the substitution of Si "Na # Al "Sr and Ca # Sr for structural modifications. Dalton Transactions, 2017, 46, 14310-14317.	1.6	16
36	Role of free electrons in phosphorescence in n-type wide bandgap semiconductors. Physical Chemistry Chemical Physics, 2017, 19, 30332-30338.	1.3	4

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38	Co-doping effect of monovalent alkali metals on optical properties of CeO ₂ :Eu nanophosphor prepared by spray pyrolysis and application for preparing pearlescent pigments with red emission. <i>Journal of Luminescence</i> , 2017, 192, 1313-1321.	1.5	25
39	Ternary Eu(III) and Tb(III) β -diketonate complexes containing chalcones: photophysical studies and biological outlook. <i>RSC Advances</i> , 2017, 7, 44272-44281.	1.7	30
40	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
41	Dual-Mode Manipulating Multicenter Photoluminescence in a Single-Phased Ba ₉ Lu ₂ Si ₆ O ₂₄ :Bi ³⁺ , Eu ³⁺ Phosphor to Realize White Light/Tunable Emissions. <i>Scientific Reports</i> , 2017, 7, 15884.	1.6	16
42	Monitoring the mechanism of formation of [Ce(1,10-phenanthroline) ₂ (NO ₃) ₃] ₃ by <i>in situ</i> luminescence analysis of 5d ⁴ f electronic transitions. <i>RSC Advances</i> , 2017, 7, 52794-52800.	1.7	10
43	Long-lasting phosphorescence with a tunable color in a Mn ²⁺ -doped anionic metal-organic framework. <i>Journal of Materials Chemistry C</i> , 2017, 5, 7898-7903.	2.7	56
44	Spin Crossover of Yb ²⁺ in CsCaX ₃ and CsSrX ₃ (X = Cl, Br, I) – A Guideline to Novel Halide-Based Scintillators. <i>Advanced Functional Materials</i> , 2017, 27, 1602783.	7.8	35
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49	Facile Ionic Liquid-Assisted Strategy for Direct Precipitation of Eu ²⁺ -Activated Nanophosphors under Ambient Conditions. <i>Small</i> , 2018, 14, e1703707.	5.2	16
50	Mining Unexplored Chemistries for Phosphors for High-Color-Quality White-Light-Emitting Diodes. <i>Joule</i> , 2018, 2, 914-926.	11.7	97
51	Down-Conversion Nitride Materials for Solid State Lighting: Recent Advances and Perspectives. <i>Chemical Reviews</i> , 2018, 118, 1951-2009.	23.0	598
52	Inherently Eu ²⁺ /Eu ³⁺ Codoped Sc ₂ O ₃ Nanoparticles as High-Performance Nanothermometers. <i>Advanced Materials</i> , 2018, 30, e1705256.	11.1	203
53	From ligand exchange to reaction intermediates: what does really happen during the synthesis of emissive complexes?. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 7428-7437.	1.3	16
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56	A photoluminescence, thermoluminescence and electron paramagnetic resonance study of EFG grown europium doped lithium fluoride (LiF) crystals. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 118, 53-61.	1.9	8
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58	Synthesis and photoluminescence of Ca _{1-x} TiO ₃ :xEu ³⁺ nanoparticles. <i>Journal of Materials Science and Technology</i> , 2018, 34, 949-954.	5.6	7
59	Long lasting phosphors: SrAl ₂ O ₄ :Eu, Dy as the most studied material. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 81, 2759-2770.	8.2	181
60	Luminescence differences between two complexes of divalent europium. <i>Journal of Organometallic Chemistry</i> , 2018, 857, 88-93.	0.8	25
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62	<i>In situ</i> monitoring metal-ligand exchange processes by optical spectroscopy and X-ray diffraction analysis: a review. <i>Reviews in Analytical Chemistry</i> , 2018, 37, .	1.5	16
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68	Ultra-narrow band blue emission of Eu ²⁺ in halogenated (Alumino)borate systems based on high lattice symmetry. <i>Journal of the American Ceramic Society</i> , 2019, 102, 2353-2369.	1.9	17
69	Multi-wavelength tailoring of a ZnGa ₂ O ₄ nanosheet phosphor <i>via</i> defect engineering. <i>Nanoscale</i> , 2018, 10, 19039-19045.	2.8	46
70	New Insight for Luminescence Tuning Based on Interstitial sites Occupation of Eu ²⁺ in Sr ₃ Al ₂ O ₇ :Eu ²⁺ (x = 0.0-0.4). <i>Advanced Optical Materials</i> , 2018, 6, 1800940.	2.5	25
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74	Color-tunable properties based on complex anion substitution in Eu^{2+} doped $\text{Ca}_8\text{Sc}_2(\text{PO}_4)_6(\text{SiO}_4)_1$ phosphor. Ceramics International, 2018, 44, 15432-15439.	2.3	6
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91	Recent advances in solid-state LED phosphors with thermally stable luminescence. <i>Journal of Rare Earths</i> , 2019, 37, 565-572.	2.5	206
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93	Small-Molecule-Doped Organic Crystals with Long-Persistent Luminescence. <i>Advanced Functional Materials</i> , 2019, 29, 1902503.	7.8	80
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97	Crystal structure insight aided design of $\text{SrGa}_2\text{Si}_2\text{O}_8\text{:Mn}^{2+}$ with multi-band and thermally stable emission for high-power LED applications. <i>Chemical Engineering Journal</i> , 2019, 375, 122016.	6.6	32
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104	Sonochemical synthesis of green emitting $\text{Ca}_2\text{SiO}_4\text{:Er}^{3+}$ nanopowders: Promising applications in optical thermometry and radiation dosimeter. <i>Optical Materials</i> , 2019, 92, 125-135.	1.7	19
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107	$\text{Li}_5\text{Zn}_8\text{Ga}_5\text{Ge}_9\text{O}_{36}\text{:Cr}^{3+}, \text{Ti}^{4+}$: 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
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110	Deep insight into the photoluminescent monocrystalline particles: Heat-treatment, structure, mechanisms and mechanics. <i>Journal of Materials Research and Technology</i> , 2019, 8, 2466-2472.	2.6	1
111	Optical transition probabilities of white light emitting Sr ₂ SiO ₄ :Dy ³⁺ nanophosphors for lighting applications using Juddâ€™Ofelt analysis. <i>Journal of Luminescence</i> , 2019, 211, 437-445.	1.5	28
112	Full visible light emission in Eu ²⁺ , Mn ²⁺ -doped Ca ₉ Li _{0.667} (PO ₄) ₇ phosphors based on multiple crystal lattice substitution and energy transfer for warm white LEDs with high colour-rendering. <i>Journal of Materials Chemistry C</i> , 2019, 7, 3644-3655.	2.7	92
113	Synthesis, spectroscopic properties and applications of divalent lanthanides apart from Eu ²⁺ . <i>Journal of Luminescence</i> , 2019, 210, 210-238.	1.5	65
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116	Efficient sensitization of Sm ²⁺ emission by Eu ²⁺ under UV excitation in Al ₂ O ₃ host formed by plasma electrolytic oxidation. <i>Materials Letters</i> , 2019, 234, 9-12.	1.3	4
117	Toward a mechanistic understanding of microfluidic droplet-based extraction and separation of lanthanides. <i>Chemical Engineering Journal</i> , 2019, 356, 673-679.	6.6	26
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119	Monitoring the solvation process and stability of Eu ²⁺ in an ionic liquid by <i>in situ</i> luminescence analysis. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2019, 74, 147-152.	0.3	5
120	Li substituent tuning of LED phosphors with enhanced efficiency, tunable photoluminescence, and improved thermal stability. <i>Science Advances</i> , 2019, 5, eaav0363.	4.7	153
121	Solid-solution transformation and photoluminescence control in Ce ³⁺ -doped Ln ₄ Si ₂ O ₇ +N ₂ (Ln= Y, Tj) ETQq0,0,0 rgBT /Overlock 1	2.8	12
122	Structural characterization and electrochemical hydrogen sorption performances of the polycrystalline Ba ₂ Co ₉ O ₁₄ nanostructures. <i>Journal of Alloys and Compounds</i> , 2019, 777, 252-258.	2.8	34
123	Roundâ€œClock Photocatalytic Hydrogen Production with High Efficiency by a Longâ€œAfterglow Material. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 1340-1344.	7.2	67
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125	Plasma effectâ€™s a simple method for improving the persistent luminescence and light response range of persistent luminescent materials. <i>Journal of Luminescence</i> , 2020, 217, 116785.	1.5	11
126	A novel method for improving particle growth and photoluminescence through Fâ€™ substituting for gallery NO ₃ â€™ in layered Y/Eu hydroxides. <i>Chemical Engineering Journal</i> , 2020, 380, 122618.	6.6	10

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