

Ce³⁺-Doped garnet phosphors: composition, properties and applications

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#	ARTICLE	IF	CITATIONS
1	Cooperative Upconversion Luminescence Properties of Yb ³⁺ and Tb ³⁺ Heavily Codoped Silicate Garnet Obtained by Multiple Chemical Unit Cosubstitution. <i>Journal of Physical Chemistry C</i> , 2017, 121, 2998-3006.	1.5	15
2	Luminescence of the Narrow-Band Red Emitting Nitridomagnesosilicate Li ₂ (Ca _{1-x} Sr _x) ₂ [Mg ₂ Si ₂ N ₆] _{0.6} (x = 0.06). <i>Chemistry of Materials</i> , 2017, 29, 1377-1383.	1.6	16
3	Facile synthesis of yellow-emitting CaAlSiN ₃ :Ce ³⁺ phosphors and the enhancement of red-component by co-doping Eu ²⁺ ions. <i>Solid State Communications</i> , 2017, 255-256, 1-4.	0.9	12
4	Lanthanide-Activated Phosphors Based on 4f-5d Optical Transitions: Theoretical and Experimental Aspects. <i>Chemical Reviews</i> , 2017, 117, 4488-4527.	23.0	702
5	Tuning excitation and emission of Mn ⁴⁺ emitting center in Y ₃ Al ₅ O ₁₂ by cation substitution. <i>Chemical Engineering Journal</i> , 2017, 317, 854-861.	6.6	66
6	Phase formation of (Y,Ce) ₂ BaAl ₄ SiO ₁₂ yellow microcrystal-glass phosphor for blue LED pumped white lighting. <i>Ceramics International</i> , 2017, 43, 6425-6429.	2.3	12
7	Look but don't touch. <i>Nature Materials</i> , 2017, 16, 501-502.	13.3	4
8	Stabilizing colour and intensity. <i>Nature Materials</i> , 2017, 16, 500-501.	13.3	88
9	Toward tunable and bright deep-red persistent luminescence of Cr ³⁺ in garnets. <i>Journal of the American Ceramic Society</i> , 2017, 100, 4033-4044.	1.9	70
10	Extended broadband luminescence of dodecahedral multisite Ce ³⁺ ions in garnets {Y ₃ }[MgA](BAlSi)O ₁₂ (A= Sc, Ga, Al; B= Ga, Al). <i>Dyes and Pigments</i> , 2017, 142, 524-529.	2.0	22
11	Synthesis, structure and photoluminescence properties of Ce ³⁺ -doped SrSc ₂ O ₄ : a new scandate green-emitting phosphor with blue excitation. <i>New Journal of Chemistry</i> , 2017, 41, 5565-5571.	1.4	22
12	Facile synthesis, morphology and photoluminescence of a novel red fluoride nanophosphor K ₂ NaAlF ₆ :Mn ⁴⁺ . <i>Journal of Materials Chemistry C</i> , 2017, 5, 6420-6426.	2.7	104
13	Chemistry-Inspired Adaptable Framework Structures. <i>Accounts of Chemical Research</i> , 2017, 50, 1222-1230.	7.6	316
14	Near-ultraviolet light induced visible emissions in Er ³⁺ -activated La ₂ MoO ₆ nanoparticles for solid-state lighting and non-contact thermometry. <i>Chemical Engineering Journal</i> , 2017, 327, 109-119.	6.6	149
15	Tunable white light of a Ce ³⁺ , Tb ³⁺ , Mn ²⁺ triply doped Na ₂ Ca ₃ Si ₂ O ₈ phosphor for high colour-rendering white LED applications: tunable luminescence and energy transfer. <i>Dalton Transactions</i> , 2017, 46, 9272-9279.	1.6	52
16	A novel green BaZn ₂ (BO ₃) ₂ :Eu ²⁺ phosphor for n-UV pumped white light-emitting diodes. <i>Journal of Luminescence</i> , 2017, 190, 424-428.	1.5	13
17	Highly efficient Eu ³⁺ -activated K ₂ Gd(WO ₄)(PO ₄) red-emitting phosphors with superior thermal stability for solid-state lighting. <i>Ceramics International</i> , 2017, 43, 10566-10571.	2.3	109
18	Enhanced emission of encaged-OH ⁻ -free Ca ₁₂ (1-x)Sr ₁₂ Al ₁₄ O ₃₃ :0.1%Gd ³⁺ conductive phosphors via tuning the encaged-electron concentration for low-voltage FEDs. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 12647-12654.	1.3	5

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19	Impact of molar ratio of total metal ions to precipitant on YAG:Ce nanophosphors synthesized by reverse titration coprecipitation. <i>Ceramics International</i> , 2017, 43, 8730-8734.	2.3	11
20	Highly Efficient Green-Emitting Phosphors Ba ₂ Y ₅ B ₅ O ₁₇ with Low Thermal Quenching Due to Fast Energy Transfer from Ce ³⁺ to Tb ³⁺ . <i>Inorganic Chemistry</i> , 2017, 56, 4538-4544.	1.9	93
21	Charge transfer induced energy storage in CaZnOS:Mn ²⁺ insight from experimental and computational spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 9075-9085.	1.3	21
22	Color tunable dual-phase transparent glass ceramics for warm white light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2017, 5, 738-746.	2.7	75
23	Facile hydrothermal synthesis of Eu ³⁺ -activated NaYF ₄ nanocrystals and their Judd-Ofelt analysis, photoluminescence and cathodoluminescence properties. <i>Current Applied Physics</i> , 2017, 17, 1662-1669.	1.1	7
24	A broad-band orange-yellow-emitting Lu ₂ Mg ₂ Al ₂ Si ₂ O ₁₂ : Ce ³⁺ phosphor for application in warm white light-emitting diodes. <i>RSC Advances</i> , 2017, 7, 46713-46720.	1.7	45
25	The Effect of Sr ²⁺ on Luminescence of Ce ³⁺ -Doped (Ca,Sr) ₂ Al ₂ SiO ₇ . <i>Inorganic Chemistry</i> , 2017, 56, 12476-12484.	1.9	26
26	Composition Screening in Blue-Emitting Li ₄ Sr _{1-x} Ca _{0.97x} (SiO ₄) ₂ :Ce ³⁺ Phosphors for High Quantum Efficiency and Thermally Stable Photoluminescence. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 30746-30754.	4.0	110
27	An efficient green-emitting Ba ₅ Si ₂ O ₆ Cl ₆ :Eu ²⁺ phosphor for white-light LED application. <i>RSC Advances</i> , 2017, 7, 40914-40921.	1.7	22
28	Geometric, electronic and optical properties of undoped and cerium-doped La ₅ (Si ₂ B ₁) ₂ (O ₁₃) ₂ solid solutions: A theoretical investigation. <i>Journal of Luminescence</i> , 2017, 192, 1026-1032.	1.5	2
29	Origin of Spectral Blue Shift of Lu ³⁺ -Codoped YAG:Ce ³⁺ Phosphor: First-Principles Study. <i>ACS Omega</i> , 2017, 2, 5935-5941.	1.6	24
30	Tunable luminescence and energy transfer properties of MgY ₄ Si ₃ O ₁₃ : Ce ³⁺ , Tb ³⁺ , Eu ³⁺ phosphors. <i>Ceramics International</i> , 2017, 43, 16323-16330.	2.3	24
31	Efficient Yellow-Orange Phosphor Lu ₄ Ba ₂ [Si ₉ ON ₁₆]O:Eu ²⁺ and Orange-Red Emitting Y ₄ Ba ₂ [Si ₉ ON ₁₆]O:Eu ²⁺ : Two Oxonitridosilicate Oxides with Outstanding Structural Variety. <i>Chemistry of Materials</i> , 2017, 29, 8377-8384.	3.2	34
32	Eu ³⁺ -activated La ₂ MoO ₆ -La ₂ WO ₆ red-emitting phosphors with ultrabroad excitation band for white light-emitting diodes. <i>Scientific Reports</i> , 2017, 7, 11953.	1.6	58
33	Phellodendron chinense Schneid: A novel yellow-emitting luminescent material for white light-emitting diodes. <i>Scientific Reports</i> , 2017, 7, 9009.	1.6	3
34	Structural evolutions and significantly reduced thermal degradation of red-emitting Sr ₂ Si ₅ N ₈ :Eu ²⁺ via carbon doping. <i>Journal of Materials Chemistry C</i> , 2017, 5, 8927-8935.	2.7	35
35	White light emissive bipolar ligand and their Eu III complex for white/red light emitting diodes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 347, 26-40.	2.0	34
36	Photoluminescence properties of novel BaGd ₂ Si ₃ O ₁₀ :RE ^{2+/3+} (RE = Eu or Ce) phosphors with trichromatic emission for white LEDs. <i>New Journal of Chemistry</i> , 2017, 41, 9178-9183.	1.4	13

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37	A bright and moisture-resistant red-emitting $\text{Lu}_3\text{Al}_5\text{O}_{12}:\text{Mn}^{4+}, \text{Mg}^{2+}$ garnet phosphor for high-quality phosphor-converted white LEDs. <i>Journal of Materials Chemistry C</i> , 2017, 5, 8828-8835.	2.7	75
38	Synthesis of $\text{Y}_3\text{Al}_5\text{O}_{12}:\text{Ce}^{3+}$ phosphor in the $\text{Y}_2\text{O}_3\text{-Al}_2\text{O}_3\text{-CeO}_2$ ternary system. <i>Journal of Materials Science</i> , 2017, 52, 13033-13039.	1.7	97
39	Crystal structure and luminescence properties of a novel non-rare-earth activated blue-emitting garnet phosphor $\text{Ca}_4\text{ZrGe}_3\text{O}_{12}:\text{Bi}^{3+}$ for n-UV pumped light-emitting diodes. <i>Journal of Alloys and Compounds</i> , 2017, 727, 63-68.	2.8	39
40	Ab initio investigations of electronic structure, optical transparency, and elastic properties in $\text{X}_3\text{Al}_2\text{Si}_3\text{O}_{12}$ ($\text{X} = \text{Ca}, \text{Mg}$). <i>Ceramics International</i> , 2017, 43, 15431-15436.	2.3	3
41	$\text{Ca}_2\text{Y}_1\text{Zr}_2\text{Al}_3\text{O}_{12}:\text{Ce}^{3+}$ Solid Solution Design toward the Green Emission Garnet Structure Phosphor for Near-UV LEDs and Their Luminescence Properties. <i>Journal of Physical Chemistry C</i> , 2017, 121, 27018-27028.	1.5	53
42	Synthesis and Photoluminescence Properties of a Blue-Emitting $\text{La}_3\text{Si}_8\text{N}_{11}\text{O}_4:\text{Eu}^{2+}$ Phosphor. <i>Inorganic Chemistry</i> , 2017, 56, 14170-14177.	1.9	22
43	Effect of Melting Times on the Down-Shifting Properties in Ce^{3+} -Doped Oxyfluoride Glass Ceramics for a-Si Solar Cells. <i>Journal of Russian Laser Research</i> , 2017, 38, 554-558.	0.3	2
44	Discovery of novel solid solution $\text{Ca}_3\text{Si}_3\text{O}_3\text{N}_4:\text{Eu}^{2+}$ phosphors: structural evolution and photoluminescence tuning. <i>Scientific Reports</i> , 2017, 7, 18103.	1.6	19
45	Near-infrared persistent luminescence of Yb^{3+} in perovskite phosphor. <i>Optics Letters</i> , 2017, 42, 4510.	1.7	17
46	An efficient blue phosphor $\text{Ba}_2\text{Lu}_5\text{B}_5\text{O}_{17}:\text{Ce}^{3+}$ stabilized by La_2O_3 : Photoluminescence properties and potential use in white LEDs. <i>Dyes and Pigments</i> , 2018, 154, 121-127.	2.0	30
47	Enhanced luminescence performance of $\text{CaO}:\text{Ce}^{3+}, \text{Li}^+, \text{F}^{\bullet}$ phosphor and its phosphor-in-glass based high-power warm LED properties. <i>Journal of Materials Chemistry C</i> , 2018, 6, 4077-4086.	2.7	24
48	Effects of argon sintering atmosphere on luminescence characteristics of $\text{Ca}_6\text{Ba}_4\text{O}_{17}:\text{Sm}^{3+}$ phosphors. <i>Ceramics International</i> , 2018, 44, 6278-6284.	2.3	20
49	Tunable luminescence and energy transfer for $\text{Ce}^{3+}/\text{Tb}^{3+}/\text{Sm}^{3+}$ doped $\text{SrAl}_2\text{Si}_2\text{O}_8$ phosphors. <i>Ceramics International</i> , 2018, 44, 10015-10019.	2.3	27
50	Ionic liquid-assisted synthesis of $\text{Yb}^{3+}\text{-Tm}^{3+}$ codoped $\text{Y}_7\text{O}_6\text{F}_9$ petal shaped microcrystals with enhanced upconversion emission. <i>Materials Research Bulletin</i> , 2018, 103, 19-24.	2.7	12
51	Site Occupancy and UV-Vis Photoluminescence of the Lanthanide Ions in $\text{BaY}_2\text{Si}_3\text{O}_{10}$. <i>Journal of Physical Chemistry C</i> , 2018, 122, 7421-7431.	1.5	17
52	Toward Rechargeable Persistent Luminescence for the First and Third Biological Windows via Persistent Energy Transfer and Electron Trap Redistribution. <i>Inorganic Chemistry</i> , 2018, 57, 5194-5203.	1.9	100
53	Crystal structure and luminescence properties of a novel single-phase orange-red emitting phosphor $\text{Ca}_9\text{La}(\text{PO}_4)_7:\text{Sm}^{3+}$. <i>RSC Advances</i> , 2018, 8, 14164-14170.	1.7	47
54	Photoluminescence properties of a Ce^{3+} doped $\text{Sr}_3\text{MgSi}_2\text{O}_8$ phosphor with good thermal stability. <i>RSC Advances</i> , 2018, 8, 15587-15594.	1.7	30

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55	A novel dazzling Eu ³⁺ -doped whitlockite-type phosphate red-emitting phosphor for white light-emitting diodes. <i>Journal of the American Ceramic Society</i> , 2018, 101, 4095-4107.	1.9	47
56	On the origin of temperature dependence of the emission maxima of Eu ²⁺ and Ce ³⁺ -activated phosphors. <i>Optical Materials</i> , 2018, 79, 172-185.	1.7	23
57	Morphology control and photoluminescence properties of Eu ³⁺ -activated Y ₄ Al ₂ O ₉ nanophosphors for solid state lighting applications. <i>CrystEngComm</i> , 2018, 20, 2540-2552.	1.3	29
58	Investigation of luminescence quenching and persistent luminescence in Ce ³⁺ doped (Gd,Y) ₃ (Al,Ga) ₅ O ₁₂ garnet using vacuum referred binding energy diagram. <i>Journal of Luminescence</i> , 2018, 198, 418-426.	1.5	28
59	A novel green-emitting phosphor of Ce ³⁺ -activated CaGd ₄ F ₁₄ : Synthesis, high efficiency, and thermal stability. <i>Powder Technology</i> , 2018, 331, 244-249.	2.1	8
60	Luminescent properties of Dy ³⁺ and/or Eu ³⁺ doped Mg ₂ Al ₄ Si ₅ O ₁₈ phosphors and energy transfer between Dy ³⁺ /Eu ³⁺ ion pairs. <i>Journal of Luminescence</i> , 2018, 197, 164-168.	1.5	49
61	Down-Conversion Nitride Materials for Solid State Lighting: Recent Advances and Perspectives. <i>Chemical Reviews</i> , 2018, 118, 1951-2009.	23.0	598
62	On the crystal structure and luminescence characteristics of a novel deep red emitting SrLaScO ₄ :Mn ⁴⁺ . <i>Dyes and Pigments</i> , 2018, 152, 127-130.	2.0	69
63	Efficient NIR Emission from Nd, Er, and Tm Complexes with Fluorinated Selenolate Ligands. <i>Inorganic Chemistry</i> , 2018, 57, 1912-1918.	1.9	21
64	A green synthetic route to the highly efficient K ₂ SiF ₆ :Mn ⁴⁺ narrow-band red phosphor for warm white light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2018, 6, 2741-2746.	2.7	105
65	Understanding the Interactions between Vibrational Modes and Excited State Relaxation in Y ₃ Al ₅ O ₁₂ :Ce: Design Principles for Phosphors Based on 5d ⁴ Transitions. <i>Chemistry of Materials</i> , 2018, 30, 1865-1877.	3.2	59
66	Brightly luminescent and color-tunable CaMoO ₄ :RE ³⁺ (RE = Eu, Sm, Dy, Tb) nanofibers synthesized through a facile route for efficient light-emitting diodes. <i>Journal of Materials Science</i> , 2018, 53, 4861-4873.	1.7	15
67	Bright Photoluminescence of [(Cp) ₂ Ce(η ⁴ -Cl)] ₂ : A Valuable Technique for the Determination of the Oxidation State of Cerium. <i>Chemistry - an Asian Journal</i> , 2018, 13, 1038-1044.	1.7	18
68	Preparation and photoluminescence properties of red-emitting phosphor ZnAl ₂ O ₄ :Eu ³⁺ with an intense ⁵ D ₀ → ⁷ F ₂ transition. <i>Materials Research Express</i> , 2018, 5, 025501.	0.8	11
69	A narrow-band red-emitting K ₂ LiGaF ₆ :Mn ⁴⁺ phosphor with octahedral morphology: Luminescent properties, growth mechanisms, and applications. <i>Journal of Alloys and Compounds</i> , 2018, 738, 307-316.	2.8	39
70	Efficient deep ultraviolet to near infrared quantum cutting in Pr ³⁺ /Yb ³⁺ codoped CaGdAlO ₄ phosphors. <i>Journal of Alloys and Compounds</i> , 2018, 740, 595-602.	2.8	16
71	Luminescence and scintillation characteristics of (Gd _x Y _{3-x})Al ₂ Ga ₃ O ₁₂ :Ce (x = 1, 2, 3) single crystals. <i>Optical Materials</i> , 2018, 76, 162-168.	1.7	21
72	Glass Ceramic Phosphors: Towards Long-Lifetime High-Power White Light-Emitting Diode Applications. A Review. <i>Laser and Photonics Reviews</i> , 2018, 12, 1700344.	4.4	256

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73	Enhanced green upconversion luminescence properties of Er ³⁺ /Yb ³⁺ co-doped strontium gadolinium silicate oxyapatite phosphor. <i>Ceramics International</i> , 2018, 44, 13852-13857.	2.3	13
74	Facile Post-synthesis of a Ce ³⁺ -Doped Ca _x Sr _{1-x} Sc ₂ O ₄ Phosphor by Means of Cation Exchange. <i>ChemistrySelect</i> , 2018, 3, 4387-4392.	0.7	6
75	Comparative Study of Gd ₂ Al ₂ Ga ₃ O ₁₂ :Ce and GdY ₂ Al ₂ Ga ₃ O ₁₂ :Ce Scintillation Crystals for γ -Ray Detection. <i>IEEE Transactions on Nuclear Science</i> , 2018, 65, 2081-2084.	1.2	1
76	Probing the luminescent properties of (Ca _{1-x} Sr _x) ₈ Mg ₃ Al ₂ Si ₇ O ₂₈ :Ce ³⁺ /Eu ²⁺ : A combined experiment and calculation study. <i>Dyes and Pigments</i> , 2018, 157, 123-132.	2.0	8
77	Effects of Gd/Lu ratio on the luminescence properties and garnet phase stability of Ce ³⁺ activated Gd _x Lu _{3-x} Al ₅ O ₁₂ single crystals. <i>Optical Materials</i> , 2018, 80, 98-105.	1.7	20
78	New Y ₂ LuCaAl ₂ SiO ₁₂ :Ln (Ln = Ce ³⁺ , Eu ³⁺), Tj ETQq1 1 0.784314 1336-1345.	3.0	73
79	Identifying the Emission Centers and Probing the Mechanism for Highly Efficient and Thermally Stable Luminescence in the La ₃ Si ₆ N ₁₁ :Ce ³⁺ Phosphor. <i>Journal of Physical Chemistry C</i> , 2018, 122, 7849-7858.	1.5	43
80	Structural construction and photoluminescence tuning via energy transfer in apatite-type solid-state phosphors. <i>Journal of Materials Chemistry C</i> , 2018, 6, 4371-4383.	2.7	65
81	Electronic structure and photoluminescence properties of single component white emitting Sr ₃ LuNa(PO ₄) ₃ F:Eu ²⁺ , Mn ²⁺ phosphor for WLEDs. <i>Journal of Materials Chemistry C</i> , 2018, 6, 4435-4443.	2.7	39
82	Improvement of photoluminescence properties of Ce ³⁺ -doped CaSrAl ₂ SiO ₇ phosphors by charge compensation with Li ⁺ and Na ⁺ . <i>Ceramics International</i> , 2018, 44, 1929-1934.	2.3	23
83	Study on synthesis, optimization and concentration quenching mechanism of deep-blue-emitting BaNa(B ₃ O ₅) ₃ :Eu ²⁺ phosphor. <i>Optik</i> , 2018, 154, 421-427.	1.4	8
84	Narrow Band Deep Red Photoluminescence of Y ₂ Mg ₃ Ge ₃ O ₁₂ :Mn ⁴⁺ , Li ⁺ Inverse Garnet for High Power Phosphor Converted LEDs. <i>ECS Journal of Solid State Science and Technology</i> , 2018, 7, R3086-R3092.	0.9	53
85	A broad band yellow-emitting Sr ₈ CaBi(PO ₄) ₇ :Eu ²⁺ phosphor for n-UV pumped white light emitting devices. <i>Dyes and Pigments</i> , 2018, 149, 268-275.	2.0	28
86	Towards long-lifetime high-performance warm w-LEDs: Fabricating chromaticity-tunable glass ceramic using an ultra-low melting Sn-P-F-O glass. <i>Journal of the European Ceramic Society</i> , 2018, 38, 1990-1997.	2.8	40
87	Synthesis and luminescent properties of Tb ₃ Al ₅ O ₁₂ :Ce ³⁺ phosphors for warm white light emitting diodes. <i>Journal of Molecular Structure</i> , 2018, 1151, 112-116.	1.8	12
88	Improving photoluminescence and thermal stability of CaSi ₂ O ₂ N ₂ :Eu ²⁺ phosphors by codoping lanthanide ions (Ln = Sc, La, Gd, Yb, Lu). <i>Materials Letters</i> , 2018, 211, 122-125.	1.3	8
89	Microscopic Study of Dopant Distribution in Europium Doped SrGa ₂ S ₄ : Impact on Thermal Quenching and Phosphor Performance. <i>ECS Journal of Solid State Science and Technology</i> , 2018, 7, R3052-R3056.	0.9	9
90	Mechanism for bifurcation of broadband luminescence spectra from Ce ³⁺ ions at dodecahedral sites in garnets {CaY ₂ }[M ₂ (Al ₂ Si)O ₁₂ (M= Al, Ga, Sc). <i>Dyes and Pigments</i> , 2018, 148, 189-195.	2.0	17

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91	Luminescence peculiarities of Eu ³⁺ ions in multicomponent Ca ₂ YSc ₂ GaSi ₂ O ₁₂ garnet. Dyes and Pigments, 2018, 150, 158-164.	2.0	16
92	Tunable luminescence of K ₂ MgSi ₃ O ₈ :Ce ³⁺ , Tb ³⁺ phosphors through energy transfer. Ceramics International, 2018, 44, 2547-2551.	2.3	23
93	VUV/Vis Photoluminescence, Site Occupancy, and Thermal Resistance Properties of K ₄ SrSi ₃ O ₉ :Ce ³⁺ . Chemistry - A European Journal, 2018, 24, 1287-1294.	1.7	15
94	Prolonging the lifetime of ultralong organic phosphorescence through dihydrogen bonding. Journal of Materials Chemistry C, 2018, 6, 226-233.	2.7	92
95	YAG based phosphors, synthesized in a field of radiation. Journal of Physics: Conference Series, 2018, 1115, 052007.	0.3	8
96	Improvement of emission intensity, colour rendering index and thermal stability of Ca ₉ Ce(PO ₄) ₇ :Eu ²⁺ , Mn ²⁺ via H ₃ BO ₃ CrystEngComm, 2018, 20, 7156-7163.	1.3	36
97	Efficient green phosphor realized by Ce ³⁺ →Tb ³⁺ energy transfer in Li ₃ Sc ₂ (PO ₄) ₃ for ultraviolet white light-emitting diodes. Physical Chemistry Chemical Physics, 2018, 20, 26995-27002.	1.7	13
98	Significantly enhanced photoluminescence and thermal stability of La ₃ Si ₈ N ₁₁ O ₄ :Ce ³⁺ , Tb ³⁺ via the Ce ³⁺ →Tb ³⁺ energy transfer: a blue-green phosphor for ultraviolet LEDs. RSC Advances, 2018, 8, 35271-35279.	2.8	25
99	Dye-embedded YAG:Ce ³⁺ @SiO ₂ composite phosphors toward warm wLEDs through radiative energy transfer: preparation, characterization and luminescence properties. Nanoscale, 2018, 10, 22237-22251.	1.6	5
100	Massive Stokes shift in 12-coordinate Ce(NO ₂) ₆ ³⁺ : crystal structure, vibrational and electronic spectra. Scientific Reports, 2018, 8, 16557.	1.6	53
101	A far-red emission (Ca,Sr) ₁₄ Zn ₆ Ga ₁₀ O ₃₅ :Mn ⁴⁺ phosphor for potential application in plant-growth LEDs. Dalton Transactions, 2018, 47, 15574-15582.	1.6	25
102	Color-tunable photoluminescence and energy transfer of (Tb ³⁺) _x (Mn ²⁺) _{3-x} Al ₂ (Al ³⁺) _x Si _x) ₃ O ₁₂ solid solutions for white light emitting diodes. RSC Advances, 2018, 8, 36056-36062.	1.7	22
103	Annealing Effects on Luminescence Efficiency of Crystal Scintillation Optical Fiber for Radiotherapy. , 2018, , .		0
104	A Cerium Doped Scandate Broad Orange-Red Emission Phosphor and its Energy Transfer-Dependent Concentration and Thermal Quenching Character. Inorganic Chemistry, 2018, 57, 14542-14553.	1.9	25
105	Blue-white-orange tunable Ba ₆ Ca ₃ YAlSi ₆ O ₂₄ :Eu ²⁺ , Mn ²⁺ phosphors for NUV-pumped LEDs. Optical Materials, 2018, 86, 600-605.	1.7	22
106	Hole Self-Trapping in $Y_3O_3Al_3Si_3O_{12}$ and $Y_3O_3Al_3Si_3O_{12}$ Review Applied, 2018, 10, .	3.2	46
107	Importance of Evaluating the Intensity Dependency of the Quantum Efficiency: Impact on LEDs and Persistent Phosphors. ACS Photonics, 2018, 5, 4529-4537.	1.1	1
108	Tunable photoluminescence and site occupancy of activators Ce ³⁺ in novel phosphors Ca ₃ (1-x)ZrSi ₂ O ₉ :3xCe ³⁺ . Applied Physics A: Materials Science and Processing, 2018, 124, 1.		

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109	RE ₄ Ba ₂ [Si ₁₂ O ₂ N ₁₆ C ₃]:Eu ²⁺ (RE = Lu, Y): Green-Yellow Emitting Oxonitridocarbidosilicates with a Highly Condensed Network Structure Unraveled through Synchrotron Microdiffraction. <i>Inorganic Chemistry</i> , 2018, 57, 13840-13846.	1.9	8
110	Preparation and investigation of Dy ³⁺ -doped Ca ₉ LiGd _{2/3} (PO ₄) ₇ single-phase full-color phosphor. <i>Materials Research Bulletin</i> , 2018, 108, 275-280.	2.7	30
111	Control of Narrow-Band Emission in Phosphor Materials for Application in Light-Emitting Diodes. <i>ACS Energy Letters</i> , 2018, 3, 2573-2586.	8.8	118
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