

Zhiguo Xia

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#	Paper	IF	Citations
370	Progress in discovery and structural design of color conversion phosphors for LEDs. <i>Progress in Materials Science</i> , 2016 , 84, 59-117	42.2	700
369	Ce-Doped garnet phosphors: composition modification, luminescence properties and applications. <i>Chemical Society Reviews</i> , 2017 , 46, 275-299	58.5	611
368	Tunable Blue-Green Color Emission and Energy Transfer of Ca ₂ Al ₃ O ₆ F:Ce ³⁺ , Tb ³⁺ Phosphors for Near-UV White LEDs. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 15604-15609	3.8	410
367	Recent developments in the new inorganic solid-state LED phosphors. <i>Dalton Transactions</i> , 2016 , 45, 11214-32	4.3	391
366	Next-Generation Narrow-Band Green-Emitting RbLi(Li SiO) ₂ :Eu Phosphor for Backlight Display Application. <i>Advanced Materials</i> , 2018 , 30, e1802489	24	312
365	Eu Site Preferences in the Mixed Cation KBaCa(PO ₃) ₂ and Thermally Stable Luminescence. <i>Journal of the American Chemical Society</i> , 2018 , 140, 9730-9736	16.4	301
364	Structural and Luminescence Properties of Yellow-Emitting NaScSi ₂ O ₆ :Eu ²⁺ Phosphors: Eu ²⁺ Site Preference Analysis and Generation of Red Emission by Codoping Mn ²⁺ for White-Light-Emitting Diode Applications. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 20847-20854	3.8	301
363	Chemical Unit Cosubstitution and Tuning of Photoluminescence in the Ca ₂ (Al _{1-x} Mg _x)(Al _{1-x} Si _{1+x})O ₇ :Eu(2+) Phosphor. <i>Journal of the American Chemical Society</i> , 2015 , 137, 12494-7	16.4	271
362	Synthesis, structure, and thermally stable luminescence of Eu(2+)-doped Ba ₂ Ln(BO ₃) ₂ Cl (Ln = Y, Gd and Lu) host compounds. <i>Inorganic Chemistry</i> , 2011 , 50, 10134-42	5.1	262
361	Emerging ultra-narrow-band cyan-emitting phosphor for white LEDs with enhanced color rendition. <i>Light: Science and Applications</i> , 2019 , 8, 38	16.7	255
360	Chemistry-Inspired Adaptable Framework Structures. <i>Accounts of Chemical Research</i> , 2017 , 50, 1222-1230	4.3	245
359	Ca ₂ Al ₃ O ₆ F:Eu ²⁺ : a green-emitting oxyfluoride phosphor for white light-emitting diodes. <i>Journal of Materials Chemistry</i> , 2012 , 22, 15183		243
358	New yellow-emitting Whitlockite-type structure Sr _{1.75} Ca _{1.25} (PO ₄) ₂ :Eu(2+) phosphor for near-UV pumped white light-emitting devices. <i>Inorganic Chemistry</i> , 2014 , 53, 5129-35	5.1	213
357	Composition design, optical gap and stability investigations of lead-free halide double perovskite Cs ₂ AgInCl ₆ . <i>Journal of Materials Chemistry A</i> , 2017 , 5, 15031-15037	13	197
356	Postsynthetic Surface Trap Removal of CsPbX ₃ (X = Cl, Br, or I) Quantum Dots via a ZnX ₂ /Hexane Solution toward an Enhanced Luminescence Quantum Yield. <i>Chemistry of Materials</i> , 2018 , 30, 8546-8554	9.6	196
355	Structure evolution and photoluminescence of Lu ₃ (Al,Mg) ₂ (Al,Si) ₃ O ₁₂ :Ce ³⁺ phosphors: new yellow-color converters for blue LED-driven solid state lighting. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 6855-6863	7.1	191
354	Linear structural evolution induced tunable photoluminescence in clinopyroxene solid-solution phosphors. <i>Scientific Reports</i> , 2013 , 3, 3310	4.9	187

353	Crystal chemistry and luminescence properties of red-emitting CsGd _{1-x} Eu _x (MoO ₄) ₂ solid-solution phosphors. <i>Dalton Transactions</i> , 2014 , 43, 9669-76	4.3	183
352	Divalent europium-doped near-infrared-emitting phosphor for light-emitting diodes. <i>Nature Communications</i> , 2019 , 10, 5267	17.4	182
351	Reversible 3D laser printing of perovskite quantum dots inside a transparent medium. <i>Nature Photonics</i> , 2020 , 14, 82-88	33.9	168
350	Pressure-Stimulated Synthesis and Luminescence Properties of Microcrystalline (Lu,Y)AlO ₄ :Ce ³⁺ Garnet Phosphors. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 26235-43	9.5	163
349	Tuning of Photoluminescence and Local Structures of Substituted Cations in xSr ₂ Ca(PO ₄) ₂ (1-x)Ca ₁₀ Li(PO ₄) ₇ :Eu ²⁺ Phosphors. <i>Chemistry of Materials</i> , 2017 , 29, 1430-1438	9.6	162
348	A novel single-composition trichromatic white-emitting Sr _{3.5} Y _{6.5} O ₂ (PO ₄) _{1.5} (SiO ₄) _{4.5} :Ce ³⁺ /Tb ³⁺ /Mn ²⁺ phosphor: synthesis, luminescent properties and applications for white LEDs. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 1619	7.1	159
347	Novel red-emitting Ba ₂ Tb(BO ₃) ₂ Cl:Eu phosphor with efficient energy transfer for potential application in white light-emitting diodes. <i>Inorganic Chemistry</i> , 2012 , 51, 7202-9	5.1	155
346	Luminescence color tuning of Ce ³⁺ , Tb ³⁺ and Eu ³⁺ codoped and tri-doped BaY ₂ Si ₃ O ₁₀ phosphors via energy transfer. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 7552-7560	7.1	152
345	Discovery of New Solid Solution Phosphors via Cation Substitution-Dependent Phase Transition in M ₃ (PO ₄) ₂ :Eu ²⁺ (M = Ca/Sr/Ba) Quasi-Binary Sets. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 2038-2045	3.8	151
344	Tuning of Photoluminescence by Cation Nanosegregation in the (CaMg) _x (NaSc) _(1-x) Si ₂ O ₆ Solid Solution. <i>Journal of the American Chemical Society</i> , 2016 , 138, 1158-61	16.4	142
343	Characterization of anionic surfactants modified montmorillonite and its application for the removal of methyl orange. <i>Chemical Engineering Journal</i> , 2011 , 171, 1150-1158	14.7	141
342	Design Optimization of Lead-Free Perovskite Cs ₂ AgInCl ₆ :Bi Nanocrystals with 11.4% Photoluminescence Quantum Yield. <i>Chemistry of Materials</i> , 2019 , 31, 3333-3339	9.6	134
341	Near UV-pumped green-emitting Na ₃ (Y,Sc)Si ₃ O ₉ :Eu ²⁺ phosphor for white-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 5917	7.1	128
340	Recent progress of zero-dimensional luminescent metal halides. <i>Chemical Society Reviews</i> , 2021 , 50, 26268-26277	58.5	127
339	Multi-color emission evolution and energy transfer behavior of La ₃ GaGe ₅ O ₁₆ :Tb ³⁺ ,Eu ³⁺ phosphors. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 6978-6984	7.1	126
338	High efficiency blue-emitting phosphor: Ce ³⁺ -doped Ca _{5.45} Li _{3.55} (SiO ₄) ₃ O _{0.45} F _{1.55} for near UV-pumped light-emitting diodes. <i>Journal of Materials Chemistry</i> , 2012 , 22, 21935		121
337	Broad-band emission in metal halide perovskites: Mechanism, materials, and applications. <i>Materials Science and Engineering Reports</i> , 2020 , 141, 100548	30.9	117
336	Encapsulation of CH ₃ NHPbBr Perovskite Quantum Dots in MOF-5 Microcrystals as a Stable Platform for Temperature and Aqueous Heavy Metal Ion Detection. <i>Inorganic Chemistry</i> , 2018 , 57, 4613-4619	5.1	117

- 335 Structure and luminescence properties of green-emitting NaBaScSi₂O₇:Eu²⁺ phosphors for near-UV-pumped light emitting diodes. *Journal of Materials Chemistry C*, **2013**, 1, 7139-7147 7.1 115
- 334 Synergetic Effect of Postsynthetic Water Treatment on the Enhanced Photoluminescence and Stability of CsPbX₃ (X = Cl, Br, I) Perovskite Nanocrystals. *Chemistry of Materials*, **2018**, 30, 6922-6929 9.6 113
- 333 Recent advances in solid-state LED phosphors with thermally stable luminescence. *Journal of Rare Earths*, **2019**, 37, 565-572 3.7 111
- 332 Learning from a Mineral Structure toward an Ultra-Narrow-Band Blue-Emitting Silicate Phosphor RbNa (Li SiO)₂:Eu. *Angewandte Chemie - International Edition*, **2018**, 57, 11728-11731 16.4 111
- 331 Blue-shift of Eu²⁺ emission in (Ba,Sr)₂Lu(PO₄)₃:Eu²⁺ eulytite solid-solution phosphors resulting from release of neighbouring-cation-induced stress. *Dalton Transactions*, **2014**, 43, 16800-4 4.3 111
- 330 Comparative investigations of the crystal structure and photoluminescence property of eulytite-type Ba₃Eu(PO₄)₃ and Sr₃Eu(PO₄)₃. *Dalton Transactions*, **2015**, 44, 7679-86 4.3 110
- 329 Polyhedron Transformation toward Stable Narrow-Band Green Phosphors for Wide-Color-Gamut Liquid Crystal Display. *Advanced Functional Materials*, **2019**, 29, 1901988 15.6 101
- 328 Li substituent tuning of LED phosphors with enhanced efficiency, tunable photoluminescence, and improved thermal stability. *Science Advances*, **2019**, 5, eaav0363 14.3 101
- 327 Lanthanide doping in metal halide perovskite nanocrystals: spectral shifting, quantum cutting and optoelectronic applications. *NPG Asia Materials*, **2020**, 12, 10.3 100
- 326 Structural Confinement toward Giant Enhancement of Red Emission in Mn²⁺-Based Phosphors. *Advanced Functional Materials*, **2018**, 28, 1804150 15.6 98
- 325 Synthesis and luminescence properties of novel LiSrPO₄:Dy³⁺ phosphor. *Materials Research Bulletin*, **2011**, 46, 2179-2182 5.1 98
- 324 Probing Eu²⁺ Luminescence from Different Crystallographic Sites in Ca₁₀M(PO₄)₇:Eu²⁺ (M = Li, Na, and K) with \bar{C} -Ca₃(PO₄)₂-Type Structure. *Chemistry of Materials*, **2017**, 29, 7563-7570 9.6 97
- 323 Luminescent properties of LiBaPO₄:RE (RE = Eu²⁺, Tb³⁺, Sm³⁺) phosphors for white light-emitting diodes. *Journal of Applied Physics*, **2012**, 111, 013101 2.5 97
- 322 Sb³⁺ Dopant and Halogen Substitution Triggered Highly Efficient and Tunable Emission in Lead-Free Metal Halide Single Crystals. *Chemistry of Materials*, **2020**, 32, 5327-5334 9.6 96
- 321 Two-Step Design of a Single-Doped White Phosphor with High Color Rendering. *Journal of the American Chemical Society*, **2017**, 139, 1436-1439 16.4 95
- 320 CHNHPbBr Perovskite Nanocrystals Encapsulated in Lanthanide Metal-Organic Frameworks as a Photoluminescence Converter for Anti-Counterfeiting. *ACS Applied Materials & Interfaces*, **2018**, 10, 27875-27884 9.5 94
- 319 Increased Eu²⁺ content and codoping Mn²⁺ induced tunable full-color emitting phosphor Ba(1.55)Ca(0.45)SiO₄:Eu²⁺,Mn²⁺. *Inorganic Chemistry*, **2014**, 53, 10386-93 5.1 94
- 318 Synthesis and luminescence properties of YVO₄:Eu³⁺,Bi³⁺ phosphor with enhanced photoluminescence by Bi³⁺ doping. *Journal of Physics and Chemistry of Solids*, **2010**, 71, 175-180 3.9 94

317	B-Site doped lead halide perovskites: synthesis, band engineering, photophysics, and light emission applications. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 2781-2808	7.1	93
316	Hybrid Metal Halides with Multiple Photoluminescence Centers. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 18670-18675	16.4	93
315	Cation substitution dependent bimodal photoluminescence in whitlockite structural $\text{Ca}_{(3-x)}\text{Sr}_x(\text{PO}_4)_2:\text{Eu}^{2+}$ (0 ≤ x ≤ 1) solid solution phosphors. <i>Inorganic Chemistry</i> , 2014 , 53, 11119-24	5.1	93
314	Manipulation of $\text{Bi}^{3+}/\text{In}^{3+}$ Transmutation and Mn^{2+} -Doping Effect on the Structure and Optical Properties of Double Perovskite $\text{Cs}_2\text{NaBi}_{1-x}\text{In}_x\text{Cl}_6$. <i>Advanced Optical Materials</i> , 2019 , 7, 1801435	8.1	92
313	Sb Doping-Induced Triplet Self-Trapped Excitons Emission in Lead-Free CsSnCl Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 7439-7444	6.4	92
312	Incorporating Rare-Earth Terbium(III) Ions into $\text{CsAgInCl}:\text{Bi}$ Nanocrystals toward Tunable Photoluminescence. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 11634-11640	16.4	92
311	Optically Modulated Ultra-Broad-Band Warm White Emission in Mn^{2+} -Doped $(\text{C}_6\text{H}_{18}\text{N}_2\text{O}_2)\text{PbBr}_4$ Hybrid Metal Halide Phosphor. <i>Chemistry of Materials</i> , 2019 , 31, 5788-5795	9.6	87
310	Composition Screening in Blue-Emitting $\text{LiSrCa}(\text{SiO})_2:\text{Ce}$ Phosphors for High Quantum Efficiency and Thermally Stable Photoluminescence. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 30746-30754	9.5	86
309	Host composition dependent tunable multicolor emission in the single-phase $\text{Ba}_2(\text{Ln}_{(1-z)}\text{Tb}_z)(\text{BO}_3)_2\text{Cl}:\text{Eu}$ phosphors. <i>Dalton Transactions</i> , 2013 , 42, 6327-36	4.3	85
308	Synthesis and color-tunable luminescence properties of Eu^{2+} and Mn^{2+} -activated $\text{Ca}_3\text{Mg}_3(\text{PO}_4)_4$ phosphor for solid state lighting. <i>RSC Advances</i> , 2013 , 3, 6051	3.7	83
307	Preparation and luminescence properties of Ce^{3+} and $\text{Ce}^{3+}/\text{Tb}^{3+}$ -activated $\text{Y}_4\text{Si}_2\text{O}_7\text{N}_2$ phosphors. <i>Dalton Transactions</i> , 2013 , 42, 12989-97	4.3	82
306	Heavy Mn^{2+} Doped MgAl_2O_4 Phosphor for High-Efficient Near-Infrared Light-Emitting Diode and the Night-Vision Application. <i>Advanced Optical Materials</i> , 2019 , 7, 1901105	8.1	81
305	Site-Selective Occupancy of Eu Toward Blue-Light-Excited Red Emission in a $\text{RbYSiO}_4:\text{Eu}$ Phosphor. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 11521-11526	16.4	80
304	Structure, Crystallographic Sites, and Tunable Luminescence Properties of Eu^{2+} and $\text{Ce}^{3+}/\text{Li}^{+}$ -Activated $\text{Ca}_{1.65}\text{Sr}_{0.35}\text{SiO}_4$ Phosphors. <i>Inorganic Chemistry</i> , 2015 , 54, 7684-91	5.1	80
303	Effect of Al/Ga Substitution on Photoluminescence and Phosphorescence Properties of Garnet-Type $\text{Y}_3\text{Sc}_2\text{Ga}_3\text{Al}_x\text{O}_{12}:\text{Ce}^{3+}$ Phosphor. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 23297-23305	3.8	79
302	Lead-Free Perovskite Derivative Cs_2SnCl_6 -Br _x Single Crystals for Narrowband Photodetectors. <i>Advanced Optical Materials</i> , 2019 , 7, 1900139	8.1	78
301	Discovery of New Narrow-Band Phosphors with the UCr_4C_4 -Related Type Structure by Alkali Cation Effect. <i>Advanced Optical Materials</i> , 2019 , 7, 1801631	8.1	78
300	Learning from a Mineral Structure toward an Ultra-Narrow-Band Blue-Emitting Silicate Phosphor $\text{RbNa}_3(\text{Li}_3\text{SiO}_4)_4:\text{Eu}^{2+}$. <i>Angewandte Chemie</i> , 2018 , 130, 11902-11905	3.6	76

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- 297 A novel orange-yellow-emitting $\text{Ba}_3\text{Lu}(\text{PO}_4)_3\text{:Eu}^{2+},\text{Mn}^{2+}$ phosphor with energy transfer for UV-excited white LEDs. *Dalton Transactions*, **2013**, 42, 941-7 4.3 74
- 296 Rare-earth free self-activated and rare-earth activated $\text{Ca}_2\text{NaZn}_2\text{V}_3\text{O}_{12}$ vanadate phosphors and their color-tunable luminescence properties. *Journal of Physics and Chemistry of Solids*, **2013**, 74, 1439-1443 2.9 74
- 295 Synthesis and Luminescence Properties of $\text{BaMoO}_4\text{:Sm}^{3+}$ Phosphors. *Journal of the American Ceramic Society*, **2010**, 93, 1397 3.8 74
- 294 Photoluminescence Tuning in Stretchable PDMS Film Grafted Doped Core/Multishell Quantum Dots for Anticounterfeiting. *Advanced Functional Materials*, **2017**, 27, 1700051 15.6 72
- 293 Phase Transformation in $\text{Ca}_3(\text{PO}_4)_2\text{:Eu}^{2+}$ via the Controlled Quenching and Increased Eu^{2+} Content: Identification of New Cyan-Emitting $\text{Ca}_3(\text{PO}_4)_2\text{:Eu}^{2+}$ Phosphor. *Journal of the American Ceramic Society*, **2015**, 98, 3280-3284 3.8 72
- 292 Synthesis and spectroscopic properties of multiferroic $\text{Ca-Tb}_2(\text{MoO}_4)_3$. *Optical Materials*, **2014**, 36, 1631-1635 3.6 70
- 291 Temperature and Eu^{2+} -Doping Induced Phase Selection in NaAlSiO_4 Polymorphs and the Controlled Yellow/Blue Emission. *Chemistry of Materials*, **2017**, 29, 6552-6559 9.6 70
- 290 Synthesis, Crystal Structure, and Enhanced Luminescence of Garnet-Type $\text{Ca}_3\text{Ga}_2\text{Ge}_3\text{O}_{12}\text{:Cr}^{3+}$ by Codoping Bi^{3+} . *Journal of the American Ceramic Society*, **2015**, 98, 1870-1876 3.8 69
- 289 New garnet structure phosphors, $\text{Lu}_3\text{Y}_\text{x}\text{MgAl}_3\text{SiO}_{12}\text{:Ce}^{3+}$ ($\text{x} = 0\text{B}$), developed by solid solution design. *Journal of Materials Chemistry C*, **2016**, 4, 2359-2366 7.1 69
- 288 Identification of the crystallographic sites of Eu^{2+} in $\text{Ca}_9\text{NaMg}(\text{PO}_4)_7$: structure and luminescence properties study. *Dalton Transactions*, **2013**, 42, 16588-95 4.3 69
- 287 Synthesis of $\text{Y}_3\text{Al}_5\text{O}_{12}\text{:Ce}^{3+}$ phosphor in the $\text{Y}_2\text{O}_3\text{-Al metal-OeO}_2$ ternary system. *Journal of Materials Science*, **2017**, 52, 13033-13039 4.3 69
- 286 Two-Dimensional-Layered Perovskite ALaTaO:Bi ($\text{A} = \text{K}$ and Na) Phosphors with Versatile Structures and Tunable Photoluminescence. *ACS Applied Materials & Interfaces*, **2018**, 10, 24648-24655 9.5 69
- 285 Luminescence properties of double-perovskite $\text{Sr}_2\text{Ca}_{1-\text{x}}\text{Eu}_\text{x}\text{Na}_\text{x}\text{MoO}_6$ red-emitting phosphors prepared by the citric acid-assisted sol-gel method. *Journal of Materials Science*, **2010**, 45, 1553-1559 4.3 68
- 284 A carbon dot-encapsulated UiO-type metal organic framework as a multifunctional fluorescent sensor for temperature, metal ion and pH detection. *Journal of Materials Chemistry C*, **2018**, 6, 4396-4399 7.1 66
- 283 Optical properties of Mn^{2+} doped cesium lead halide perovskite nanocrystals via a cation-anion co-substitution exchange reaction. *Journal of Materials Chemistry C*, **2017**, 5, 9281-9287 7.1 65
- 282 Luminescence properties and energy transfer in $\text{La}_6\text{Ba}_4(\text{SiO}_4)_6\text{F}_2\text{:Ce}^{3+},\text{Tb}^{3+}$ phosphors. *Journal of Luminescence*, **2014**, 145, 65-70 3.8 65

281	A thermally stable narrow-band green-emitting phosphor MgAl ₂ O ₄ :Mn ²⁺ for wide color gamut backlight display application. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 8192-8198	7.1	64
280	Co-substitution in Ca _{1-x} Y _x Al ₁₂ Mg _x O ₁₉ phosphors: local structure evolution, photoluminescence tuning and application for plant growth LEDs. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 4217-4224	7.1	64
279	Dual-Mode Optical Thermometry Design in LuAlO ₃ :Ce/Mn Phosphor. <i>Inorganic Chemistry</i> , 2020 , 59, 1383-1392	6.4	64
278	ns ² Electron (Bi ³⁺ and Sb ³⁺) Doping in Lead-Free Metal Halide Perovskite Derivatives. <i>Chemistry of Materials</i> , 2020 , 32, 10255-10267	9.6	64
277	Luminescence properties and energy transfer of Bi ³⁺ /Eu ³⁺ -codoped Ca ₁₀ (PO ₄) ₆ F ₂ phosphors. <i>Materials Research Bulletin</i> , 2013 , 48, 3513-3517	5.1	63
276	Two-site Cr ³⁺ occupation in the MgTa ₂ O ₆ :Cr ³⁺ phosphor toward broad-band near-infrared emission for vessel visualization. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 9322-9328	7.1	62
275	Structure, luminescence property and energy transfer behavior of color-adjustable La ₅ Si ₂ BO ₁₃ :Ce ³⁺ ,Mn ²⁺ phosphors. <i>RSC Advances</i> , 2014 , 4, 7288	3.7	62
274	Broad-Band Emission in a Zero-Dimensional Hybrid Organic [PbBr] Trimer with Intrinsic Vacancies. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 1337-1341	6.4	61
273	Tuning of the Compositions and Multiple Activator Sites toward Single-Phased White Emission in (Ca _{1-x} Sr _x)MgK(PO ₃) ₂ :Eu Phosphors for Solid-State Lighting. <i>Inorganic Chemistry</i> , 2019 , 58, 5006-5012	5.1	60
272	Unraveling the Near-Unity Narrow-Band Green Emission in Zero-Dimensional Mn-Based Metal Halides: A Case Study of (CHN)ZnMnBr Solid Solutions. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 5956-5962	6.4	59
271	Near UV-pumped yellow-emitting Sr ₉ MgLi(PO ₄) ₇ :Eu ²⁺ phosphor for white-light LEDs. <i>Science China Materials</i> , 2018 , 61, 985-992	7.1	59
270	Structural Engineering of Eu ²⁺ -Doped Silicates Phosphors for LED Applications. <i>Accounts of Materials Research</i> , 2020 , 1, 137-145	7.5	59
269	Luminescence properties and energy transfer of Ce ³⁺ /Tb ³⁺ co-doped Ca ₆ Ba(PO ₄) ₄ O phosphor for near-UV pumped light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 4197-4204	7.1	58
268	Effect of Al/Si substitution on the structure and luminescence properties of CaSrSiO ₄ :Ce ³⁺ phosphors: analysis based on the polyhedra distortion. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 4616-4622	7.1	58
267	Crystal field splitting of 4f ⁿ 5d-levels of Ce ³⁺ and Eu ²⁺ in nitride compounds. <i>Journal of Luminescence</i> , 2018 , 194, 461-466	3.8	58
266	Structure and luminescence properties of Eu ²⁺ doped Lu _x Sr _{2-x} Si _x O ₄ phosphors evolved from chemical unit cosubstitution. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 1336-1344	7.1	58
265	The improvement of moisture resistance and thermal stability of Ca ₃ SiO ₄ Cl ₂ :Eu ²⁺ phosphor coated with SiO ₂ . <i>Applied Surface Science</i> , 2011 , 257, 4350-4353	6.7	58
264	Three-Dimensional Laser-Assisted Patterning of Blue-Emissive Metal Halide Perovskite Nanocrystals inside a Glass with Switchable Photoluminescence. <i>ACS Nano</i> , 2020 , 14, 3150-3158	16.7	57

- 263 Exploring the transposition effects on the electronic and optical properties of Cs₂AgSbCl₆ via a combined computational-experimental approach. *Journal of Materials Chemistry A*, **2018**, 6, 2346-2352 13 57
- 262 Lead-Free Hybrid Metal Halides with a Green-Emissive [MnBr] Unit as a Selective Turn-On Fluorescent Sensor for Acetone. *Inorganic Chemistry*, **2019**, 58, 13464-13470 5.1 56
- 261 Structural construction and photoluminescence tuning via energy transfer in apatite-type solid-state phosphors. *Journal of Materials Chemistry C*, **2018**, 6, 4371-4383 7.1 56
- 260 Homo- and Heterovalent Doping-Mediated Self-Trapped Exciton Emission and Energy Transfer in Mn-Doped CsNaAgBiCl Double Perovskites. *Journal of Physical Chemistry Letters*, **2020**, 11, 340-348 6.4 56
- 259 Growth and Characterization of Single-Crystal Y₂O₃:Eu Nanobelts Prepared with a Simple Technique. *Crystal Growth and Design*, **2006**, 6, 2193-2196 3.5 55
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- 257 Photoluminescence properties and energy transfer of Ba₂Lu(BO₃)₂Cl:Eu²⁺/Eu³⁺,Tb³⁺ phosphors. *Journal Physics D: Applied Physics*, **2012**, 45, 015302 3 54
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- 255 Narrow-band emitters in LED backlights for liquid-crystal displays. *Materials Today*, **2020**, 40, 246-265 21.8 53
- 254 Evolution of Structure and Photoluminescence by Cation Cosubstitution in Eu(2+)-Doped (Ca(1-x)Li(x))(Al(1-x)Si(1+x))N₃ Solid Solutions. *Inorganic Chemistry*, **2016**, 55, 2929-33 5.1 53
- 253 Progress in lead-based ferroelectric and antiferroelectric single crystals: composition modification, crystal growth and properties. *CrystEngComm*, **2012**, 14, 4547 3.3 53
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