Zhiguo Xia

List of Publications by Year in descending order

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382	29,462	2795 94	8138 148
papers	citations	h-index	g-index

389	389	389	10370
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Progress in discovery and structural design of color conversion phosphors for LEDs. Progress in Materials Science, 2016, 84, 59-117.	16.0	902
2	Ce³⁺-Doped garnet phosphors: composition modification, luminescence properties and applications. Chemical Society Reviews, 2017, 46, 275-299.	18.7	838
3	Recent developments in the new inorganic solid-state LED phosphors. Dalton Transactions, 2016, 45, 11214-11232.	1.6	488
4	Tunable Blue-Green Color Emission and Energy Transfer of Ca₂Al₃O₆F:Ce³⁺,Tb³⁺ Phosphors for Near-UV White LEDs. Journal of Physical Chemistry C, 2012, 116, 15604-15609.	1.5	445
5	Eu²⁺ Site Preferences in the Mixed Cation K₂BaCa(PO₄)₂ and Thermally Stable Luminescence. Journal of the American Chemical Society, 2018, 140, 9730-9736.	6.6	428
6	Nextâ€Generation Narrowâ€Band Greenâ€Emitting RbLi(Li₃SiO₄)₂:Eu²⁺ Phosphor for Backlight Display Application. Advanced Materials, 2018, 30, e1802489.	11.1	407
7	Recent progress of zero-dimensional luminescent metal halides. Chemical Society Reviews, 2021, 50, 2626-2662.	18.7	405
8	Divalent europium-doped near-infrared-emitting phosphor for light-emitting diodes. Nature Communications, 2019, 10, 5267.	5.8	388
9	Emerging ultra-narrow-band cyan-emitting phosphor for white LEDs with enhanced color rendition. Light: Science and Applications, 2019, 8, 38.	7.7	369
10	Structural and Luminescence Properties of Yellow-Emitting NaScSi₂O₆:Eu²⁺ Phosphors: Eu²⁺ Site Preference Analysis and Generation of Red Emission by Codoping Mn²⁺ for White-Light-Emitting Diode Applications. Journal of Physical Chemistry C, 2013, 117, 20847-20854.	1.5	366
11	Reversible 3D laser printing of perovskite quantum dots inside a transparent medium. Nature Photonics, 2020, 14, 82-88.	15.6	326
12	Composition design, optical gap and stability investigations of lead-free halide double perovskite Cs₂AgInCl₆. Journal of Materials Chemistry A, 2017, 5, 15031-15037.	5.2	319
13	Chemistry-Inspired Adaptable Framework Structures. Accounts of Chemical Research, 2017, 50, 1222-1230.	7.6	316
14	Chemical Unit Cosubstitution and Tuning of Photoluminescence in the Ca₂(Al_{1â€“x}Mg_x)(Al_{1â€“x}Si_{1+x})O₇ Phosphor. Journal of the American Chemical Society, 2015, 137, 12494-12497.	6.6	310
15	Synthesis, Structure, and Thermally Stable Luminescence of Eu²⁺-Doped Ba₂Ln(BO₃)₂Cl (Ln = Y, Gd and Lu) Host Compounds. Inorganic Chemistry, 2011, 50, 10134-10142.	1.9	289
16	Structure evolution and photoluminescence of Lu₃(Al,Mg)₂(Al,Si)₃O₁₂:Ce³⁺ phosphors: new yellow-color converters for blue LED-driven solid state lighting. Journal of Materials Chemistry C, 2016, 4, 6855-6863.	2.7	271
17	Ca2Al3O6F:Eu2+: a green-emitting oxyfluoride phosphor for white light-emitting diodes. Journal of Materials Chemistry, 2012, 22, 15183.	6.7	267
18	Postsynthetic Surface Trap Removal of CsPbX₃ (X = Cl, Br, or I) Quantum Dots via a ZnX₂/Hexane Solution toward an Enhanced Luminescence Quantum Yield. Chemistry of Materials, 2018, 30, 8546-8554.	3.2	267

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19	New Yellow-Emitting Whitlockite-type Structure Sr_{1.75}Ca_{1.25}(PO₄)₂:Eu²⁺ Phosphor for Near-UV Pumped White Light-Emitting Devices. Inorganic Chemistry, 2014, 53, 5129-5135.	1.9	258
20	Design Optimization of Lead-Free Perovskite Cs₂AgInCl₆:Bi Nanocrystals with 11.4% Photoluminescence Quantum Yield. Chemistry of Materials, 2019, 31, 3333-3339.	3.2	225
21	Crystal chemistry and luminescence properties of red-emitting CsGd_{1â^'x}Eu_x(MoO₄)₂ solid-solution phosphors. Dalton Transactions, 2014, 43, 9669-9676.	1.6	222
22	Pressure-Stimulated Synthesis and Luminescence Properties of Microcrystalline (Lu,Y)₃Al₅O₁₂:Ce³⁺ Garnet Phosphors. ACS Applied Materials & Interfaces, 2015, 7, 26235-26243.	4.0	217
23	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.	3.2	215
24	Incorporating Rareâ€Earth Terbium(III) Ions into Cs₂AgInCl₆:Bi Nanocrystals toward Tunable Photoluminescence. Angewandte Chemie - International Edition, 2020, 59, 11634-11640.	7.2	214
25	Broad-band emission in metal halide perovskites: Mechanism, materials, and applications. Materials Science and Engineering Reports, 2020, 141, 100548.	14.8	208
26	Recent advances in solid-state LED phosphors with thermally stable luminescence. Journal of Rare Earths, 2019, 37, 565-572.	2.5	206
27	Linear structural evolution induced tunable photoluminescence in clinopyroxene solid-solution phosphors. Scientific Reports, 2013, 3, 3310.	1.6	202
28	Sb³⁺â€Doping in Cesium Zinc Halides Single Crystals Enabling Highâ€Efficiency Nearâ€Infrared Emission. Advanced Functional Materials, 2021, 31, 2105316.	7.8	199
29	Encapsulation of CH₃NH₃PbBr₃ Perovskite Quantum Dots in MOF-5 Microcrystals as a Stable Platform for Temperature and Aqueous Heavy Metal Ion Detection. Inorganic Chemistry, 2018, 57, 4613-4619.	1.9	196
30	Tuning of Photoluminescence and Local Structures of Substituted Cations in xSr₂Ca(PO₄)₂â€“(1 â€“) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302 Td (x)Ca<sub> Materials, 2017, 29, 1430-1438.	3.2	194
31	Discovery of New Solid Solution Phosphors via Cation Substitution-Dependent Phase Transition in M₃(PO₄)₂:Eu²⁺ (M = Ca/Sr/Ba) Quasi-Binary Sets. Journal of Physical Chemistry C, 2015, 119, 2038-2045.	1.5	187
32	Sb³⁺ Doping-Induced Triplet Self-Trapped Excitons Emission in Lead-Free Cs₂SnCl₆ Nanocrystals. Journal of Physical Chemistry Letters, 2019, 10, 7439-7444.	2.1	180
33	Lanthanide doping in metal halide perovskite nanocrystals: spectral shifting, quantum cutting and optoelectronic applications. NPG Asia Materials, 2020, 12, .	3.8	179
34	Characterization of anionâ€“cationic surfactants modified montmorillonite and its application for the removal of methyl orange. Chemical Engineering Journal, 2011, 171, 1150-1158.	6.6	178
35	ns² Electron (Bi³⁺ and Sb³⁺) Doping in Lead-Free Metal Halide Perovskite Derivatives. Chemistry of Materials, 2020, 32, 10255-10267.	3.2	178
36	A novel single-composition trichromatic white-emitting Sr3.5Y6.5O2(PO4)1.5(SiO4)4.5â€‰:â€‰Ce3+/Tb3+/Mn2+ phosphor: synthesis, luminescent properties and applications for white LEDs. Journal of Materials Chemistry C, 2014, 2, 1619.	2.7	175

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37	Luminescence color tuning of Ce³⁺, Tb³⁺ and Eu³⁺ codoped and tri-doped BaY₂Si₃O₁₀ phosphors via energy transfer. Journal of Materials Chemistry C, 2015, 3, 7552-7560.	2.7	172
38	Leadâ€Free Double Perovskite Cs₂AgInCl₆. Angewandte Chemie - International Edition, 2021, 60, 11592-11603.	7.2	168
39	Novel Red-Emitting Ba₂Tb(BO₃)₂Cl:Eu Phosphor with Efficient Energy Transfer for Potential Application in White Light-Emitting Diodes. Inorganic Chemistry, 2012, 51, 7202-7209.	1.9	167
40	Tuning of Photoluminescence by Cation Nanosegregation in the (CaMg)_x(NaSc)_{1â€“x}Si₂O₆ Solid Solution. Journal of the American Chemical Society, 2016, 138, 1158-1161.	6.6	167
41	Heavy Mn²⁺ Doped MgAl₂O₄ Phosphor for Highâ€Efficient Nearâ€Infrared Lightâ€Emitting Diode and the Nightâ€Vision Application. Advanced Optical Materials, 2019, 7, 1901105.	3.6	167
42	Mn²⁺â€Doped Metal Halide Perovskites: Structure, Photoluminescence, and Application. Laser and Photonics Reviews, 2021, 15, .	4.4	167
43	Comparative investigations of the crystal structure and photoluminescence property of eulytite-type Ba₃Eu(PO₄)₃and Sr₃Eu(PO₄)₃. Dalton Transactions, 2015, 44, 7679-7686.	1.6	161
44	Learning from a Mineral Structure toward an Ultraâ€Narrowâ€Band Blueâ€Emitting Silicate Phosphor RbNa₃(Li₃SiO₄)₄:Eu²⁺. Angewandte Chemie - International Edition, 2018, 57, 11728-11731.	7.2	158
45	Hybrid Metal Halides with Multiple Photoluminescence Centers. Angewandte Chemie - International Edition, 2019, 58, 18670-18675.	7.2	158
46	Manipulation of Bi³⁺/In³⁺ Transmutation and Mn²⁺â€Doping Effect on the Structure and Optical Properties of Double Perovskite Cs₂NaBi_{1â€“}_xIn_xCl₆. Advanced Optical Materials, 2019, 7, 1801435.	3.6	157
47	CH₃NH₃PbBr₃ Perovskite Nanocrystals Encapsulated in Lanthanide Metalâ€“Organic Frameworks as a Photoluminescence Converter for Anti-Counterfeiting. ACS Applied Materials & Interfaces, 2018, 10, 27875-27884.	4.0	155
48	Li substituent tuning of LED phosphors with enhanced efficiency, tunable photoluminescence, and improved thermal stability. Science Advances, 2019, 5, eaav0363.	4.7	153
49	Near UV-pumped green-emitting Na3(Y,Sc)Si3O9:Eu2+ phosphor for white-emitting diodes. Journal of Materials Chemistry C, 2013, 1, 5917.	2.7	152
50	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.	3.2	152
51	Blue-shift of Eu²⁺emission in (Ba,Sr)₃Lu(PO₄)₃:Eu²⁺eulytite solid-solution phosphors resulting from release of neighbouring-cation-induced stress. Dalton Transactions, 2014, 43, 16800-16804.	1.6	148
52	Two-site Cr³⁺ occupation in the MgTa₂O₆:Cr³⁺ phosphor toward broad-band near-infrared emission for vessel visualization. Journal of Materials Chemistry C, 2020, 8, 9322-9328.	2.7	147
53	Unraveling the Near-Unity Narrow-Band Green Emission in Zero-Dimensional Mn²⁺-Based Metal Halides: A Case Study of (C₁₀H₁₆N)₂Zn_{1â€“x}Mn_xBr₄ Solid Solutions. Journal of Physical Chemistry Letters, 2020, 11, 5956-5962.	2.1	147
54	Photoluminescence of Singlet/Triplet Selfâ€Trapped Excitons in Sb³⁺â€Based Metal Halides. Advanced Optical Materials, 2021, 9, 2002213.	3.6	147

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55	Multi-color emission evolution and energy transfer behavior of La₃GaGe₅O₁₆:Tb³⁺,Eu³⁺phosphors. Journal of Materials Chemistry C, 2014, 2, 6978-6984.	2.7	145
56	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.	2.7	144
57	Polyhedron Transformation toward Stable Narrowâ€Band Green Phosphors for Wideâ€Colorâ€Gamut Liquid Crystal Display. Advanced Functional Materials, 2019, 29, 1901988.	7.8	140
58	Cr³⁺â€Doped Scâ€Based Fluoride Enabling Highly Efficient Near Infrared Luminescence: A Case Study of K₂NaScF₆:Cr³⁺. Laser and Photonics Reviews, 2021, 15, 2000410.	4.4	140
59	High efficiency blue-emitting phosphor: Ce3+-doped Ca5.45Li3.55(SiO4)3O0.45F1.55 for near UV-pumped light-emitting diodes. Journal of Materials Chemistry, 2012, 22, 21935.	6.7	136
60	Siteâ€Selective Occupancy of Eu²⁺ Toward Blueâ€Lightâ€Excited Red Emission in a Rb₃YSi₂O₇:Eu Phosphor. Angewandte Chemie - International Edition, 2019, 58, 11521-11526.	7.2	136
61	Nearâ€Infrared Lightâ€Emitting Diodes utilizing a Europiumâ€Activated Calcium Oxide Phosphor with External Quantum Efficiency of up to 54.7%. Advanced Materials, 2022, 34, e2201887.	11.1	132
62	Optically Modulated Ultra-Broad-Band Warm White Emission in Mn²⁺-Doped (C₆H₁₈N₂O₂)PbBr₄ Hybrid Metal Halide Phosphor. Chemistry of Materials, 2019, 31, 5788-5795.	3.2	131
63	Structural Engineering of Eu²⁺-Doped Silicates Phosphors for LED Applications. Accounts of Materials Research, 2020, 1, 137-145.	5.9	130
64	Dual-Mode Optical Thermometry Design in Lu₃Al₅O₁₂:Ce³⁺/Mn⁴⁺ Phosphor. Inorganic Chemistry, 2020, 59, 1383-1392.	1.9	127
65	B-Site doped lead halide perovskites: synthesis, band engineering, photophysics, and light emission applications. Journal of Materials Chemistry C, 2019, 7, 2781-2808.	2.7	124
66	Colloidal Metalâ€Halide Perovskite Nanoplatelets: Thicknessâ€Controlled Synthesis, Properties, and Application in Lightâ€Emitting Diodes. Advanced Materials, 2022, 34, e2107105.	11.1	124
67	Leadâ€Free Perovskite Derivative Cs₂SnCl_{6â^'}_xBr_x Single Crystals for Narrowband Photodetectors. Advanced Optical Materials, 2019, 7, 1900139.	3.6	123
68	Structural Confinement toward Giant Enhancement of Red Emission in Mn²⁺â€Based Phosphors. Advanced Functional Materials, 2018, 28, 1804150.	7.8	122
69	Two-Step Design of a Single-Doped White Phosphor with High Color Rendering. Journal of the American Chemical Society, 2017, 139, 1436-1439.	6.6	121
70	Probing Eu²⁺ Luminescence from Different Crystallographic Sites in Ca₁₀M(PO₄)₇:Eu²⁺ (M = Li, Na, and K) with Î²-Ca₃(PO₄)₂-Type Structure. Chemistry of Materials, 2017, 29, 7563-7570.	3.2	120
71	Synthesis and luminescence properties of novel LiSrPO4:Dy3+ phosphor. Materials Research Bulletin, 2011, 46, 2179-2182.	2.7	118
72	Narrow-band emitters in LED backlights for liquid-crystal displays. Materials Today, 2020, 40, 246-265.	8.3	118

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73	Cation Substitution Dependent Bimodal Photoluminescence in Whitlockite Structural Ca_{3â€“x}Sr_x(PO₄)₂:Eu²⁺ (0 â‰¤ TjETQq1 1 0.784314	1.9	114
74	Synthesis and Luminescence Properties of BaMoO₄:Sm³⁺ Phosphors. Journal of the American Ceramic Society, 2010, 93, 1397-1401.	1.9	112
75	Lead-Free Hybrid Metal Halides with a Green-Emissive [MnBr₄] Unit as a Selective Turn-On Fluorescent Sensor for Acetone. Inorganic Chemistry, 2019, 58, 13464-13470.	1.9	112
76	Composition Screening in Blue-Emitting Li₄Sr_{1+x}Ca_{0.97â€“x}(SiO₄)₂:Ce³⁺ Phosphors for High Quantum Efficiency and Thermally Stable Photoluminescence. ACS Applied Materials & Interfaces, 2017, 9, 30746-30754.	4.0	110
77	A thermally stable narrow-band green-emitting phosphor MgAl₂O₄:Mn²⁺for wide color gamut backlight display application. Journal of Materials Chemistry C, 2019, 7, 8192-8198.	2.7	110
78	Discovery of New Narrowâ€Band Phosphors with the UCr₄C₄â€Related Type Structure by Alkali Cation Effect. Advanced Optical Materials, 2019, 7, 1801631.	3.6	109
79	Giant Redâ€Shifted Emission in (Sr,Ba)Y₂O₄:Eu²⁺ Phosphor Toward Broadband Nearâ€Infrared Luminescence. Advanced Functional Materials, 2022, 32, 2103927.	7.8	109
80	Structural Rigidity Control toward Cr³⁺-Based Broadband Near-Infrared Luminescence with Enhanced Thermal Stability. Chemistry of Materials, 2022, 34, 1376-1384.	3.2	108
81	Seedâ€Crystalâ€Induced Cold Sintering Toward Metal Halide Transparent Ceramic Scintillators. Advanced Materials, 2022, 34, e2110420.	11.1	108
82	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.	1.9	107
83	Luminescent properties of LiBaPO4:RE (REâ€‰=â€‰Eu2+, Tb3+, Sm3+) phosphors for white light-emitting diodes. Journal of Applied Physics, 2012, 111, .	1.1	107
84	A General Ammonium Salt Assisted Synthesis Strategy for Cr³⁺â€Doped Hexafluorides with Highly Efficient Near Infrared Emissions. Advanced Functional Materials, 2021, 31, 2103743.	7.8	107
85	Tailoring of White Luminescence in a NaLi₃SiO₄:Eu²⁺ Phosphor Containing Broadâ€Band Defectâ€Induced Chargeâ€Transfer Emission. Advanced Materials, 2021, 33, e2101428.	11.1	107
86	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, 10386-10393.	1.9	106
87	Learning from a Mineral Structure toward an Ultraâ€Narrowâ€Band Blueâ€Emitting Silicate Phosphor RbNa₃(Li₃SiO₄)₄:Eu²⁺. Angewandte Chemie, 2018, 130, 11902-11905.	1.6	106
88	Homo- and Heterovalent Doping-Mediated Self-Trapped Exciton Emission and Energy Transfer in Mn-Doped Cs₂Na_{1â€“x}Ag_xBiCl₆ Double Perovskites. Journal of Physical Chemistry Letters, 2020, 11, 340-348.	2.1	104
89	Glass crystallization making red phosphor for high-power warm white lighting. Light: Science and Applications, 2021, 10, 56.	7.7	104
90	Phase Transformation in Ca₃(PO₄)₂:Eu²⁺ via the Controlled Quenching and Increased Eu²⁺ Content: Identification of New Cyanâ€Emitting Î±â€Ca₃(PO₄)₂:Eu²⁺ Phosphor. Journal of the American Ceramic Society, 2015, 98, 3280-3284.	1.9	103

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91	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.	2.7	102
92	Three-Dimensional Laser-Assisted Patterning of Blue-Emissive Metal Halide Perovskite Nanocrystals inside a Glass with Switchable Photoluminescence. ACS Nano, 2020, 14, 3150-3158.	7.3	102
93	Exploring the transposition effects on the electronic and optical properties of Cs₂AgSbCl₆via a combined computational-experimental approach. Journal of Materials Chemistry A, 2018, 6, 2346-2352.	5.2	100
94	Learning from Mineral Structures toward New Luminescence Materials for Light-Emitting Diode Applications. Chemistry of Materials, 2021, 33, 1083-1098.	3.2	100
95	Effect of Al/Ga Substitution on Photoluminescence and Phosphorescence Properties of Garnet-Type Y₃Sc₂Ga_{3â€“x}Al_xO₁₂:Ce³⁺ Phosphor. Journal of Physical Chemistry C, 2014, 118, 23297-23305.	4.5	98
96	Synthesis of Y3Al5O12:Ce3+ phosphor in the Y2O3â€“Al metalâ€“CeO2 ternary system. Journal of Materials Science, 2017, 52, 13033-13039.	1.7	97
97	Host composition dependent tunable multicolor emission in the single-phase Ba2(Ln1â¯zTbz)(BO3)2Cl:Eu phosphors. Dalton Transactions, 2013, 42, 6327.	1.6	94
98	High Br^{â€“} Content CsPb(Cl_yBr_{1â€“y})₃ Perovskite Nanocrystals with Strong Mn²⁺ Emission through Diverse Cation/Anion Exchange Engineering. ACS Applied Materials & Interfaces, 2018, 10, 11739-11746.	4.0	92
99	Two-Dimensional-Layered Perovskite ALaTa₂O₇:Bi³⁺ (A = K and Na) Phosphors with Versatile Structures and Tunable Photoluminescence. ACS Applied Materials & Interfaces, 2018, 10, 24648-24655.	4.0	91
100	Rare-earth free self-activated and rare-earth activated Ca2NaZn2V3O12 vanadate phosphors and their color-tunable luminescence properties. Journal of Physics and Chemistry of Solids, 2013, 74, 1439-1443.	1.9	90
101	Structure, Crystallographic Sites, and Tunable Luminescence Properties of Eu²⁺ and Ce³⁺/Li⁺-Activated Ca_{1.65}Sr_{0.35}SiO₄ Phosphors. Inorganic Chemistry, 2015, 54, 7684-7691.	1.9	90
102	Photoluminescence Tuning in Stretchable PDMS Film Grafted Doped Core/Multishell Quantum Dots for Anticounterfeiting. Advanced Functional Materials, 2017, 27, 1700051.	7.8	89
103	Engineering of K₃YSi₂O₇ To Tune Photoluminescence with Selected Activators and Site Occupancy. Chemistry of Materials, 2019, 31, 7770-7778.	3.2	89
104	Enhancing Photoluminescence Quantum Yield in 0D Metal Halides by Introducing Water Molecules. Advanced Functional Materials, 2020, 30, 2002468.	7.8	89
105	Synthesis and color-tunable luminescence properties of Eu2+ and Mn2+-activated Ca3Mg3(PO4)4 phosphor for solid state lighting. RSC Advances, 2013, 3, 6051.	1.7	87
106	Crystal Structure and Photoluminescence Evolution of La₅(Si_{2+x}B_{1â€“x})(O_{13â€“x}N_x)_{1.5}:Ce<sup>3 Solid Solution Phosphors. Journal of Physical Chemistry C, 2015, 119, 9488-9495.	4.5	87
107	Preparation and luminescence properties of Ce3+ and Ce3+/Tb3+-activated Y4Si2O7N2 phosphors. Dalton Transactions, 2013, 42, 12989.	1.6	86
108	Synthesis and spectroscopic properties of multiferroic Î²â€²-Tb2(MoO4)3. Optical Materials, 2014, 36, 1631-1635.	1.7	86

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109	Synthesis, Crystal Structure, and Enhanced Luminescence of Garnetâ€Type Ca₃Ga₂Ge₃O₁₂:Cr³⁺ by Codoping Bi³⁺. Journal of the American Ceramic Society, 2015, 98, 1870-1876.	1.9	86
110	New garnet structure phosphors, Lu_{3â^'x}Y_xMgAl₃SiO₁₂:Ce³⁺ (x = 0â€“3), developed by solid solution design. Journal of Materials Chemistry C, 2016, 4, 2359-2366.	2.7	86
111	Broad-Band Emission in a Zero-Dimensional Hybrid Organic [PbBr₆] Trimer with Intrinsic Vacancies. Journal of Physical Chemistry Letters, 2019, 10, 1337-1341.	2.1	86
112	Tuning of the Compositions and Multiple Activator Sites toward Single-Phased White Emission in (Ca_{9â€“x}Sr_x)MgK(PO₄)₇:Eu²⁺ Phosphors for Solid-State Lighting. Inorganic Chemistry, 2019, 58, 5006-5012.	1.9	85
113	Co-substitution in Ca_{1â^'x}Y_xAl_{12â^'x}Mg_xO₁₉phosphors: local structure evolution, photoluminescence tuning and application for plant growth LEDs. Journal of Materials Chemistry C, 2018, 6, 4217-4224.	2.7	83
114	Lead-Free Tin(IV)-Based Organicâ€“Inorganic Metal Halide Hybrids with Excellent Stability and Blue-Broadband Emission. Journal of Physical Chemistry Letters, 2020, 11, 1808-1813.	2.1	82
115	Crystal field splitting of 4fnâ^'15d-levels of Ce3+ and Eu2+ in nitride compounds. Journal of Luminescence, 2018, 194, 461-466.	1.5	81
116	Mn²⁺-Based narrow-band green-emitting Cs₃MnBr₅ phosphor and the performance optimization by Zn²⁺ alloying. Journal of Materials Chemistry C, 2019, 7, 11220-11226.	2.7	81
117	Lead-Free Broadband Orange-Emitting Zero-Dimensional Hybrid (PMA)₃InBr₆ with Direct Band Gap. Inorganic Chemistry, 2019, 58, 15602-15609.	1.9	81
118	Temperature and Eu²⁺-Doping Induced Phase Selection in NaAlSiO₄ Polymorphs and the Controlled Yellow/Blue Emission. Chemistry of Materials, 2017, 29, 6552-6559.	3.2	79
119	Near UV-pumped yellow-emitting Sr9MgLi(PO4)7:Eu2+ phosphor for white-light LEDs. Science China Materials, 2018, 61, 985-992.	3.5	79
120	Ultra-Broad-Band-Excitable Cu(I)-Based Organometallic Halide with Near-Unity Emission for Light-Emitting Diode Applications. Chemistry of Materials, 2021, 33, 4382-4389.	3.2	79
121	A novel orange-yellow-emitting Ba₃Lu(PO₄)₃:Eu²⁺,Mn²⁺phosphor with energy transfer for UV-excited white LEDs. Dalton Transactions, 2013, 42, 941-947.	1.6	78
122	Enhanced up-conversion luminescence and optical temperature sensing in graphitic C₃N₄ quantum dots grafted with BaWO₄:Yb³⁺,Er³⁺ phosphors. Journal of Materials Chemistry C, 2019, 7, 6112-6119.	2.7	78
123	Luminescence properties of double-perovskite Sr2Ca1â^'2x Eu x Na x MoO6 red-emitting phosphors prepared by the citric acid-assisted solâ€“gel method. Journal of Materials Science, 2010, 45, 1553-1559.	1.7	77
124	Modulation of Thermally Stable Photoluminescence in Cr³⁺-Based Near-Infrared Phosphors. Journal of Physical Chemistry Letters, 2022, 13, 5001-5008.	2.1	77
125	Optical properties of Mn²⁺ doped cesium lead halide perovskite nanocrystals via a cationâ€“anion co-substitution exchange reaction. Journal of Materials Chemistry C, 2017, 5, 9281-9287.	2.7	76
126	Identification of the crystallographic sites of Eu2+ in Ca9NaMg(PO4)7: structure and luminescence properties study. Dalton Transactions, 2013, 42, 16588.	1.6	75

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127	Pure red upconversion luminescence and optical thermometry of Er³⁺ doped sensitizer-rich SrYbInO₄ phosphors. Journal of Materials Chemistry C, 2018, 6, 7361-7366.	2.7	75
128	Surface Passivation toward Highly Stable Mn⁴⁺â€Activated Redâ€Emitting Fluoride Phosphors and Enhanced Photostability for White LEDs. Advanced Materials Interfaces, 2019, 6, 1802006.	1.9	75
129	Bright Green Emission from Self-Trapped Excitons Triggered by Sb³⁺ Doping in Rb₄CdCl₆. Chemistry of Materials, 2022, 34, 5717-5725.	3.2	72
130	Singleâ€Component Whiteâ€Light Emission in 2D Hybrid Perovskites with Hybridized Halogen Atoms. Advanced Optical Materials, 2019, 7, 1901335.	3.6	71
131	Site engineering strategy toward enhanced luminescence thermostability of a Cr³⁺-doped broadband NIR phosphor and its application. Materials Chemistry Frontiers, 2021, 5, 3841-3849.	3.2	71
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133	Structure and luminescence properties of Eu²⁺ doped Lu_xSr_{2â^'x}SiN_xO_{4â^'x} phosphors evolved from chemical unit cosubstitution. Journal of Materials Chemistry C, 2016, 4, 1336-1344.	2.7	69
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