Jilin Zhang

List of Publications by Year
in descending order

76 papers	2,526 citations	159358 30 h-index	223531 46 g-index
77 all docs	77 docs citations	77 times ranked	1726 citing authors

#	Article	IF	Citations
1	Improving Quantum Efficiency and Thermal Stability in Blue-Emitting Ba_{2â€“x}Sr_xSiO₄:Ce³⁺ Phosphor via Solid Solution. Chemistry of Materials, 2018, 30, 5137-5147.	3.2	194
2	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
3	Synthesis and luminescent properties of UV-excited thermal stable red-emitting phosphor Ba3Lu(PO4)3: Eu3+ for NUV LED. Optical Materials, 2014, 36, 850-853.	1.7	82
4	Changing Ce³⁺ Content and Codoping Mn²⁺ Induced Tunable Emission and Energy Transfer in Ca_{2.5}Sr_{0.5}Al₂O₆:Ce³⁺,Mn²⁺. Inorganic Chemistry, 2017, 56, 241-251.	1.9	81
5	Synthesis of magnetic nickel spinel ferrite nanospheres by a reverse emulsion-assisted hydrothermal process. Journal of Solid State Chemistry, 2009, 182, 2135-2140.	1.4	79
6	Effectively enhancing blue excitation of red phosphor Mg2TiO4:Mn4+ by Bi3+ sensitization. Journal of Luminescence, 2015, 158, 130-135.	1.5	74
7	Local Structure Modulation Induced Highly Efficient Far-Red Luminescence of La_{1â€“x}Lu_xAlO₃:Mn⁴⁺ for Plant Cultivation. Inorganic Chemistry, 2019, 58, 8379-8387.	1.9	68
8	Site-sensitive energy transfer modes in Ca₃Al₂O₆: Ce³⁺/Tb³⁺/Mn²⁺phosphors. Dalton Transactions, 2014, 43, 18134-18145.	1.6	65
9	Dopant preferential site occupation and high efficiency white emission in K₂BaCa(PO₄)₂:Eu²⁺,Mn²⁺ phosphors for high quality white LED applications. Inorganic Chemistry Frontiers, 2019, 6, 1289-1298.	3.0	65
10	Synthesis and luminescence of Eu2+-doped alkaline-earth apatites for application in white LED. Journal of Luminescence, 2010, 130, 554-559.	1.5	63
11	Broadband-excited and efficient blue/green/red-emitting Ba2Y5B5O17: Ce3+, Tb3+, Eu3+ phosphors using Tb3+-bridged Ce3+-Eu3+ energy transfer. Dyes and Pigments, 2018, 149, 696-706.	2.0	60
12	Photoâ€Physical Behaviors of Efficient Green Phosphor Ba₂MgSi₂O₇:Eu²⁺ and Its Application in Lightâ€Emitting Diodes. Journal of the American Ceramic Society, 2010, 93, 1368-1371.	1.9	55
13	Near-UV-to-red light conversion through energy transfer in Ca₂Sr(PO₄)₂:Ce³⁺,Mn²⁺ for plant growth. Journal of Materials Chemistry C, 2017, 5, 12069-12076.	2.7	54
14	Highly efficient and thermally stable single-activator white-emitting phosphor K₂Ca(PO₄)F:Eu²⁺ for white light-emitting diodes. Journal of Materials Chemistry C, 2019, 7, 8982-8991.	2.7	54
15	Energy transfer and multicolor tunable emission in single-phase Tb3+, Eu3+ co-doped Sr3La(PO4)3 phosphors. Ceramics International, 2016, 42, 13919-13924.	2.3	51
16	Significant improved quantum yields of CaAl12O19:Mn4+ red phosphor by co-doping Bi3+ and B3+ ions and dual applications for plant cultivations. Journal of Luminescence, 2018, 201, 314-320.	1.5	50
17	Photoluminescence studies of high-efficient red-emitting K 2 Y(WO 4)(PO 4):Eu 3+ phosphor for NUV LED. Materials Research Bulletin, 2016, 73, 219-225.	2.7	48
18	Concentration quenching of Eu2+ in a thermal-stable yellow phosphor Ca2BO3Cl:Eu2+ for LED application. Journal of Luminescence, 2012, 132, 914-918.	1.5	45

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19	Redistribution of Activator Tuning of Photoluminescence by Isovalent and Aliovalent Cation Substitutions in Whitlockite Phosphors. Journal of Physical Chemistry C, 2015, 119, 16853-16859.	1.5	45
20	Highly Efficient and Thermally Stable Blue-Green (Ba_{0.8}Eu_{0.2}O)(Al₂O₃)_{4.575Ã—(1+x)} Phosphor through Structural Modification. ACS Applied Materials & Interfaces, 2018, 10, 39064-39073.	4.0	45
21	Li4SrCa(SiO4)2:Ce3+, a highly efficient near-UV and blue emitting orthosilicate phosphor. Journal of Alloys and Compounds, 2015, 646, 315-320.	2.8	42
22	Blue-emitting Bi-doped double perovskite Gd2ZnTiO6 phosphor with near-ultraviolet excitation for warm white light-emitting diodes. Journal of Alloys and Compounds, 2019, 788, 1127-1136.	2.8	41
23	An efficient and stable green phosphor SrBaSiO4:Eu2+ for light-emitting diodes. Journal of Luminescence, 2010, 130, 2288-2292.	1.5	39
24	Multicolor Emission in a Singleâ€Phase Phosphor Ca₃Al₂O₆:Ce³⁺,Li⁺: Luminescence and Site Occupancy. Journal of the American Ceramic Society, 2014, 97, 1517-1522.	1.9	37
25	Highly efficient and zero-thermal-quenching blue-emitting Eu2+-activated K-beta-alumina phosphors. Chemical Engineering Journal, 2022, 429, 132225.	6.6	36
26	Morphology-controllable synthesis of tetragonal LaVO₄nanostructures. CrystEngComm, 2010, 12, 1079-1085.	1.3	35
27	Host-sensitized color-tunable luminescence properties of self-activated and Eu3+-doped Ca3LiZnV3O12 phosphors. Journal of Luminescence, 2018, 203, 735-740.	1.5	35
28	Luminescent properties of Sr2MgSi2O7:Eu2+ as blue phosphor for NUV light-emitting diodes. Powder Technology, 2010, 204, 263-267.	2.1	34
29	LiSrBO3:Eu2+: A novel broad-band red phosphor under the excitation of a blue light. Materials Letters, 2012, 79, 100-102.	1.3	32
30	Ultrahigh-Energy-Transfer Efficiency and Efficient Mn²⁺ Red Emission Realized by Structural Confinement in Ca₉LiMn(PO₄)₇:Eu²⁺,Tb³⁺ Phosphor. Inorganic Chemistry, 2020, 59, 15050-15060.	1.9	32
31	The self-reduction ability of RE3+ in orthosilicate (REÂ=ÂEu, Tm, Yb, Sm): BaZnSiO4-based phosphors prepared in air and its luminescence. Journal of Alloys and Compounds, 2017, 690, 267-273.	2.8	31
32	Discovery of blue-emitting Eu2+-activated sodium aluminate phosphor with high thermal stability via phase segregation. Chemical Engineering Journal, 2020, 388, 124289.	6.6	31
33	Achieving dynamic multicolor luminescence in ZnS:KBr,Mn2+ phosphor for anti-counterfeiting. Chemical Engineering Journal, 2022, 429, 132537.	6.6	31
34	A green approach to green-conversion material and green-agriculture: alkaline-earth metal sulfide phosphors. Journal of Materials Chemistry C, 2015, 3, 9631-9636.	2.7	29
35	From Nonluminescence to Bright Blue Emission: Boron-Induced Highly Efficient Ce³⁺-Doped Hydroxyapatite Phosphor. Inorganic Chemistry, 2019, 58, 13481-13491.	1.9	27
36	Site Preference-Driven Mn⁴⁺ Stabilization in Double Perovskite Phosphor Regulating Quantum Efficiency from Zero to Champion. Inorganic Chemistry, 2022, 61, 3631-3640.	1.9	27

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37	ZO-1 expression is suppressed by GM-CSF via miR-96/ERG in brain microvascular endothelial cells. Journal of Cerebral Blood Flow and Metabolism, 2018, 38, 809-822.	2.4	26
38	Fine-Tunable Self-Activated Luminescence in Apatite-Type (Ba,Sr)5(PO4)3Br and the Defect Process. Inorganic Chemistry, 2018, 57, 12354-12363.	1.9	26
39	Highly efficient and thermal stable La2Si2O7:Ce3+,Tb3+,Eu3+ phosphors: Emission color tuning through terbium bridge. Journal of Alloys and Compounds, 2019, 785, 53-61.	2.8	26
40	Luminescence and energy transfer of La5Si2BO13: A (A=Ce3+/Tb3+/Eu3+/Sm3+) phosphors under UV excitation. Materials Letters, 2015, 143, 71-74.	1.3	25
41	Luminescent properties of green- or red-emitting Eu2+-doped Sr3Al2O6 for LED. Journal of Luminescence, 2011, 131, 2463-2467.	1.5	24
42	A Strategy for Synthesizing CaZnOS:Eu2+ Phosphor and Comparison of Optical Properties with CaS:Eu2+. Journal of Alloys and Compounds, 2014, 583, 335-339.	2.8	24
43	White LED with high color rendering index based on Ca8Mg(SiO4)4Cl2:Eu2+ and ZnCdTe/CdSe quantum dot hybrid phosphor. Materials Letters, 2012, 84, 24-26.	1.3	23
44	Site-occupancy on the luminescence properties of a single-phase Li4SrCa(SiO4)2:Eu2+ phosphor. Ceramics International, 2014, 40, 9831-9834.	2.3	21
45	CXCL1 promotes the proliferation of neural stem cells by stimulating the generation of reactive oxygen species in APP/PS1 mice. Biochemical and Biophysical Research Communications, 2019, 515, 201-206.	1.0	21
46	Luminescence tuning of Tb/Eu Co-doped zinc aluminoborosilicate glasses for white LED applications. Ceramics International, 2020, 46, 26608-26615.	2.3	21
47	Composition and Antithermal Quenching of Noninteger Stoichiometric Eu²⁺-Doped Na-Î²-Alumina with Cyan Emission for Near-UV WLEDs. Inorganic Chemistry, 2021, 60, 19393-19401.	1.9	20
48	Color-tunable emission in Ce³⁺, Tb³⁺co-doped Ca₅(BO₃)₃F phosphor. RSC Advances, 2015, 5, 67125-67133.	1.7	19
49	Remarkably Enhancing Green-Excitation Efficiency for Solar Energy Utilization: Red Phosphors Ba₂ZnS₃:Eu²⁺, X^{â€“} Co-Doped Halide Ions (X = Cl, Br, I). Inorganic Chemistry, 2017, 56, 5720-5727.	1.9	19
50	Interdomain I/O Optimization in Virtualized Sensor Networks. Sensors, 2018, 18, 4395.	2.1	18
51	Tricolor emitting and energy transfer in the phosphor Ba2ZnSi2O7:Ce3+,Eu3+,Eu2+ for white-LED based near-UV chips. Journal of Rare Earths, 2015, 33, 463-468.	2.5	17
52	Enhancement of red emission in Ce3+, RE3+, Mn2+ codoped Ca5(BO3)3F phosphors: Luminescent properties and structural refinement. Journal of Alloys and Compounds, 2016, 688, 345-353.	2.8	17
53	Self-reduction-induced BaMgP₂O₇:Eu^{2+/3+}: a multi-stimuli-responsive phosphor for X-ray detection, anti-counterfeiting and optical thermometry. Dalton Transactions, 2022, 51, 6622-6630.	1.6	17
54	Synthesis and photoluminescent properties of high-efficient color-tunable Ba3Y2B6O15: Ce3+, Tb3+ phosphors. Ceramics International, 2018, 44, 20732-20738.	2.3	16

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55	Tunable colors and applications of Dy³⁺/Eu³⁺ coâ€doped CaOâ€B₂O₃â€SiO₂ glasses. Journal of the American Ceramic Society, 2019, 102, 5890-5898.	1.9	16
56	Synthesis, crystal structure and luminescence of a near ultraviolet-green to red spectral converter BaY2S4:Eu2+, Er3+. RSC Advances, 2013, 3, 16781.	1.7	15
57	Preparation, luminescence properties and energy transfer of Ca₉Y(PO₄)₇: Eu²⁺â€Tb³⁺ phosphors. Journal of the American Ceramic Society, 2017, 100, 2991-2996.	1.9	14
58	An insight into the preferential substitution and structure repair in Eu²⁺-doped whitlockite-type phosphors based on the combined experimental and theoretical calculations. Journal of Materials Chemistry C, 2019, 7, 8954-8961.	2.7	14
59	Novel Dual-Excitation and Dual-Emission Materials: Eu²⁺,Pb²⁺ Co-doped Coreâ€“Shell-Structured CaS@CaZnOS Phosphors and Their Application for Highly Efficient Photosynthesis of Plants. ACS Applied Materials & Interfaces, 2022, 14, 1413-1422.	4.0	14
60	Synthesis and photoluminescence control of Ca10.5â€“1.5xLax(PO4)7:Eu2+ phosphors by aliovalent cation substitution. Journal of Solid State Chemistry, 2017, 246, 194-198.	1.4	13
61	Crystallographic-site induced multi-color emission with high efficiency in Ca3(SiO3)3:Ce3+ phosphor. Journal of Alloys and Compounds, 2018, 764, 574-581.	2.8	13
62	Preparation and Luminescence Properties of Eu²⁺ and Mn²⁺ Coactivated Tricalcium Phosphate Phosphors. Journal of the American Ceramic Society, 2014, 97, 3631-3635.	1.9	12
63	Site-sensitive energy transfer from Ce3+ to Tb3+/Mn2+ based on an efficient phosphor Li4SrCa(SiO4)2:Ce3+. Ceramics International, 2018, 44, 18413-18419.	2.3	12
64	Cation vacancy repair towards a new yellow Ca7Sr3Na(PO4)7:Eu2+ phosphor. Ceramics International, 2019, 45, 16963-16968.	2.3	11
65	Efficient and tunable Mn2+ sensitized luminescence via energy transfer of a novel red phosphor Ca19Mn2(PO4)14: Eu2+ for white LED. Ceramics International, 2022, 48, 15695-15702.	2.3	11
66	Structural Confinement and Energetic Matching Synergistic Effect toward a High-Energy Transfer Efficiency and a Significant Red Emission Enhancement in a Eu²⁺,Ln³⁺ Co-doped Sr₉LiMn(PO₄)₇ Whitlockite Phosphor. Inorganic Chemistry, 2022, 61, 8767-8781.	1.9	11
67	To tune europium valence by controlling the composition in diphase silicate phosphors. Journal of Rare Earths, 2018, 36, 1015-1023.	2.5	10
68	Multispectral tunability in single Eu²⁺-doped (Ba,Sr)₅(PO₄)₃Br phosphor. Inorganic Chemistry Frontiers, 2020, 7, 2515-2522.	3.0	10
69	A rapid in situ synthesis of wide-spectrum CD@BaCl₂ phosphors via anti-solvent recrystallization for white LEDs. Inorganic Chemistry Frontiers, 2020, 7, 4845-4853.	3.0	8
70	Fine controllable blue emission and its mechanism in Ce3+-doped orthosilicate solid solution phosphors for different plant growths. Journal of Rare Earths, 2018, 36, 1150-1156.	2.5	7
71	Enhanced photoluminescence of the Ca_{0.8}Zn_{0.2}TiO₃:0.05% Pr³⁺ phosphor by optimized hydrothermal conditions. Luminescence, 2017, 32, 999-1008.	1.5	6
72	Highly thermal stable phosphor LiSrPO4:Eu2+ with a new crystal structure. Applied Materials Today, 2020, 21, 100792.	2.3	6

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73	Improving thermal stability and quantum efficiency through solid solution for Ce3+-activated (Ba1-Sr) Tj ETQq1 1 0.784314 rgBT /Ove	2.8	6
74	Precisely control the ultraviolet to blue light conversion for plant growth: Rigid crystal structure, lattice substitution and flux effect in the Ca1.1Sr0.9SiO4:Ce3+, Li+ phosphor. Materials Research Bulletin, 2022, 150, 111760.	2.7	6
75	An Effective Identification Technology for Online News Comment Spammers in Internet Media. IEEE Access, 2019, 7, 37792-37806.	2.6	2
76	Tuning crystal structure and luminescence of Eu²⁺-activated LiSr_{1â€“x}Ba_xPO₄ solid solution for white light-emitting diodes. Materials Advances, 2022, 3, 1152-1159.	2.6	2