

Jilin Zhang

List of Publications by Year in descending order

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76
papers

2,526
citations

159358

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223531

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all docs

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docs citations

77
times ranked

1726
citing authors

#	ARTICLE	IF	CITATIONS
1	Achieving dynamic multicolor luminescence in ZnS:KBr,Mn ²⁺ phosphor for anti-counterfeiting. Chemical Engineering Journal, 2022, 429, 132537.	6.6	31
2	Highly efficient and zero-thermal-quenching blue-emitting Eu ²⁺ -activated K-beta-alumina phosphors. Chemical Engineering Journal, 2022, 429, 132225.	6.6	36
3	Tuning crystal structure and luminescence of Eu ²⁺ -activated LiSr _{1-x} Ba _x PO ₄ solid solution for white light-emitting diodes. Materials Advances, 2022, 3, 1152-1159.	2.6	2
4	Precisely control the ultraviolet to blue light conversion for plant growth: Rigid crystal structure, lattice substitution and flux effect in the Ca _{1.1} Sr _{0.9} SiO ₄ :Ce ³⁺ , Li ⁺ phosphor. Materials Research Bulletin, 2022, 150, 111760.	2.7	6
5	Novel Dual-Excitation and Dual-Emission Materials: Eu ²⁺ ,Pb ²⁺ Co-doped Core-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
6	Self-reduction-induced BaMgP ₂ O ₇ :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
7	Site Preference-Driven Mn ⁴⁺ Stabilization in Double Perovskite Phosphor Regulating Quantum Efficiency from Zero to Champion. Inorganic Chemistry, 2022, 61, 3631-3640.	1.9	27
8	Efficient and tunable Mn ²⁺ sensitized luminescence via energy transfer of a novel red phosphor Ca ₁₉ Mn ₂ (PO ₄) ₁₄ : Eu ²⁺ for white LED. Ceramics International, 2022, 48, 15695-15702.	2.3	11
9	Structural Confinement and Energetic Matching Synergistic Effect toward a High-Energy Transfer Efficiency and a Significant Red Emission Enhancement in a Eu ²⁺ ,Ln ³⁺ Co-doped Sr ₉ LiMn(PO ₄) ₇ Whitlockite Phosphor. Inorganic Chemistry, 2022, 61, 8767-8781.	1.9	11
10	Improving thermal stability and quantum efficiency through solid solution for Ce ³⁺ -activated (Ba _{1-x} Sr _x) ₂ ETQqO _{0.0} rgBT /Overlock 10 TF	2.8	6
11	Composition and Antithermal Quenching of Noninteger Stoichiometric Eu ²⁺ -Doped Na ²⁺ -Alumina with Cyan Emission for Near-UV WLEDs. Inorganic Chemistry, 2021, 60, 19393-19401.	1.9	20
12	Ultrahigh-Energy-Transfer Efficiency and Efficient Mn ²⁺ Red Emission Realized by Structural Confinement in Ca ₉ LiMn(PO ₄) ₇ :Eu ²⁺ ,Tb ³⁺ Phosphor. Inorganic Chemistry, 2020, 59, 15050-15060.	1.9	32
13	Luminescence tuning of Tb/Eu Co-doped zinc aluminoborosilicate glasses for white LED applications. Ceramics International, 2020, 46, 26608-26615.	2.3	21
14	Highly thermal stable phosphor LiSrPO ₄ :Eu ²⁺ with a new crystal structure. Applied Materials Today, 2020, 21, 100792.	2.3	6
15	A rapid <i>in situ</i> synthesis of wide-spectrum CD@BaCl ₂ phosphors <i>via</i> anti-solvent recrystallization for white LEDs. Inorganic Chemistry Frontiers, 2020, 7, 4845-4853.	3.0	8
16	Discovery of blue-emitting Eu ²⁺ -activated sodium aluminate phosphor with high thermal stability via phase segregation. Chemical Engineering Journal, 2020, 388, 124289.	6.6	31
17	Multispectral tunability in single Eu ²⁺ -doped (Ba,Sr) ₅ (PO ₄) ₃ Br phosphor. Inorganic Chemistry Frontiers, 2020, 7, 2515-2522.	3.0	10
18	Highly efficient and thermally stable single-activator white-emitting phosphor K ₂ Ca(PO ₄) ₄ F:Eu ²⁺ for white light-emitting diodes. Journal of Materials Chemistry C, 2019, 7, 8982-8991.	2.7	54

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19	From Nonluminescence to Bright Blue Emission: Boron-Induced Highly Efficient Ce ³⁺ -Doped Hydroxyapatite Phosphor. <i>Inorganic Chemistry</i> , 2019, 58, 13481-13491.	1.9	27
20	Highly efficient and thermal stable La ₂ Si ₂ O ₇ :Ce ³⁺ ,Tb ³⁺ ,Eu ³⁺ phosphors: Emission color tuning through terbium bridge. <i>Journal of Alloys and Compounds</i> , 2019, 785, 53-61.	2.8	26
21	Cation vacancy repair towards a new yellow Ca ₇ Sr ₃ Na(PO ₄) ₇ :Eu ²⁺ phosphor. <i>Ceramics International</i> , 2019, 45, 16963-16968.	2.3	11
22	An insight into the preferential substitution and structure repair in Eu ²⁺ -doped whitlockite-type phosphors based on the combined experimental and theoretical calculations. <i>Journal of Materials Chemistry C</i> , 2019, 7, 8954-8961.	2.7	14
23	CXCL1 promotes the proliferation of neural stem cells by stimulating the generation of reactive oxygen species in APP/PS1 mice. <i>Biochemical and Biophysical Research Communications</i> , 2019, 515, 201-206.	1.0	21
24	Local Structure Modulation Induced Highly Efficient Far-Red Luminescence of La ³⁺ Lu ³⁺ AlO ₃ :Mn ⁴⁺ for Plant Cultivation. <i>Inorganic Chemistry</i> , 2019, 58, 8379-8387.	1.9	68
25	Dopant preferential site occupation and high efficiency white emission in K ₂ BaCa(PO ₄) ₂ :Eu ²⁺ ,Mn ²⁺ phosphors for high quality white LED applications. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 1289-1298.	3.0	65
26	Tunable colors and applications of Dy ³⁺ /Eu ³⁺ co-doped CaO-B ₂ O ₃ -SiO ₂ glasses. <i>Journal of the American Ceramic Society</i> , 2019, 102, 5890-5898.	1.9	16
27	An Effective Identification Technology for Online News Comment Spammers in Internet Media. <i>IEEE Access</i> , 2019, 7, 37792-37806.	2.6	2
28	Blue-emitting Bi-doped double perovskite Gd ₂ ZnTiO ₆ phosphor with near-ultraviolet excitation for warm white light-emitting diodes. <i>Journal of Alloys and Compounds</i> , 2019, 788, 1127-1136.	2.8	41
29	ZO-1 expression is suppressed by GM-CSF via miR-96/ERG in brain microvascular endothelial cells. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2018, 38, 809-822.	2.4	26
30	Broadband-excited and efficient blue/green/red-emitting Ba ₂ Y ₅ B ₅ O ₁₇ : Ce ³⁺ , Tb ³⁺ , Eu ³⁺ phosphors using Tb ³⁺ -bridged Ce ³⁺ -Eu ³⁺ energy transfer. <i>Dyes and Pigments</i> , 2018, 149, 696-706.	2.0	60
31	Interdomain I/O Optimization in Virtualized Sensor Networks. <i>Sensors</i> , 2018, 18, 4395.	2.1	18
32	Highly Efficient and Thermally Stable Blue-Green (Ba _{0.8} Eu _{0.2} O)(Al ₂ O ₃) _{4.575} -(1+x)/sub> Phosphor through Structural Modification. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 39064-39073.	4.0	45
33	Fine-Tunable Self-Activated Luminescence in Apatite-Type (Ba,Sr) ₅ (PO ₄) ₃ Br and the Defect Process. <i>Inorganic Chemistry</i> , 2018, 57, 12354-12363.	1.9	26
34	To tune europium valence by controlling the composition in diphasic silicate phosphors. <i>Journal of Rare Earths</i> , 2018, 36, 1015-1023.	2.5	10
35	Site-sensitive energy transfer from Ce ³⁺ to Tb ³⁺ /Mn ²⁺ based on an efficient phosphor Li ₄ SrCa(SiO ₄) ₂ :Ce ³⁺ . <i>Ceramics International</i> , 2018, 44, 18413-18419.	2.3	12
36	Improving Quantum Efficiency and Thermal Stability in Blue-Emitting Ba ²⁺ Sr ³⁺ SiO ₄ :Ce ³⁺ Phosphor via Solid Solution. <i>Chemistry of Materials</i> , 2018, 30, 5137-5147.	3.2	194

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37	Significant improved quantum yields of CaAl ₁₂ O ₁₉ :Mn ⁴⁺ red phosphor by co-doping Bi ³⁺ and B ³⁺ ions and dual applications for plant cultivations. <i>Journal of Luminescence</i> , 2018, 201, 314-320.	1.5	50
38	Host-sensitized color-tunable luminescence properties of self-activated and Eu ³⁺ -doped Ca ₃ LiZnV ₃ O ₁₂ phosphors. <i>Journal of Luminescence</i> , 2018, 203, 735-740.	1.5	35
39	Synthesis and photoluminescent properties of high-efficient color-tunable Ba ₃ Y ₂ B ₆ O ₁₅ : Ce ³⁺ , Tb ³⁺ phosphors. <i>Ceramics International</i> , 2018, 44, 20732-20738.	2.3	16
40	Fine controllable blue emission and its mechanism in Ce ³⁺ -doped orthosilicate solid solution phosphors for different plant growths. <i>Journal of Rare Earths</i> , 2018, 36, 1150-1156.	2.5	7
41	Crystallographic-site induced multi-color emission with high efficiency in Ca ₃ (SiO ₃) ₃ :Ce ³⁺ phosphor. <i>Journal of Alloys and Compounds</i> , 2018, 764, 574-581.	2.8	13
42	Enhanced photoluminescence of the Ca _{0.8} Zn _{0.2} TiO ₃ :0.05% Pr ³⁺ phosphor by optimized hydrothermal conditions. <i>Luminescence</i> , 2017, 32, 999-1008.	1.5	6
43	Remarkably Enhancing Green-Excitation Efficiency for Solar Energy Utilization: Red Phosphors Ba ₂ ZnS ₃ :Eu ²⁺ , X ⁺ Co-Doped Halide Ions (X = Cl, Br, I). <i>Inorganic Chemistry</i> , 2017, 56, 5720-5727.	1.9	19
44	Preparation, luminescence properties and energy transfer of Ca ₉ Y(PO ₄) ₇ :Eu ²⁺ Tb ³⁺ phosphors. <i>Journal of the American Ceramic Society</i> , 2017, 100, 2991-2996.	1.9	14
45	Changing Ce ³⁺ Content and Codoping Mn ²⁺ Induced Tunable Emission and Energy Transfer in Ca _{2.5} Sr _{0.5} Al ₂ O ₆ :Ce ³⁺ , Mn ²⁺ . <i>Inorganic Chemistry</i> , 2017, 56, 241-251.	1.9	81
46	Near-UV-to-red light conversion through energy transfer in Ca ₂ Sr(PO ₄) ₂ :Ce ³⁺ , Mn ²⁺ for plant growth. <i>Journal of Materials Chemistry C</i> , 2017, 5, 12069-12076.	2.7	54
47	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
48	The self-reduction ability of RE ³⁺ in orthosilicate (RE=Eu, Tm, Yb, Sm): BaZnSiO ₄ -based phosphors prepared in air and its luminescence. <i>Journal of Alloys and Compounds</i> , 2017, 690, 267-273.	2.8	31
49	Synthesis and photoluminescence control of Ca _{10.5} La _{1.5} (PO ₄) ₇ :Eu ²⁺ phosphors by aliovalent cation substitution. <i>Journal of Solid State Chemistry</i> , 2017, 246, 194-198.	1.4	13
50	Enhancement of red emission in Ce ³⁺ , RE ³⁺ , Mn ²⁺ codoped Ca ₅ (BO ₃) ₃ F phosphors: Luminescent properties and structural refinement. <i>Journal of Alloys and Compounds</i> , 2016, 688, 345-353.	2.8	17
51	Energy transfer and multicolor tunable emission in single-phase Tb ³⁺ , Eu ³⁺ co-doped Sr ₃ La(PO ₄) ₃ phosphors. <i>Ceramics International</i> , 2016, 42, 13919-13924.	2.3	51
52	Photoluminescence studies of high-efficient red-emitting K ₂ Y(WO ₄)(PO ₄):Eu ³⁺ phosphor for NUV LED. <i>Materials Research Bulletin</i> , 2016, 73, 219-225.	2.7	48
53	Color-tunable emission in Ce ³⁺ , Tb ³⁺ b-c-o-doped Ca ₅ (BO ₃) ₃ F phosphor. <i>RSC Advances</i> , 2015, 5, 67125-67133.	1.7	19
54	Li ₄ SrCa(SiO ₄) ₂ :Ce ³⁺ , a highly efficient near-UV and blue emitting orthosilicate phosphor. <i>Journal of Alloys and Compounds</i> , 2015, 646, 315-320.	2.8	42

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55	Redistribution of Activator Tuning of Photoluminescence by Isovalent and Aliovalent Cation Substitutions in Whitlockite Phosphors. <i>Journal of Physical Chemistry C</i> , 2015, 119, 16853-16859.	1.5	45
56	Tricolor emitting and energy transfer in the phosphor Ba ₂ ZnSi ₂ O ₇ :Ce ³⁺ ,Eu ³⁺ ,Eu ²⁺ for white-LED based near-UV chips. <i>Journal of Rare Earths</i> , 2015, 33, 463-468.	2.5	17
57	A green approach to green-conversion material and green-agriculture: alkaline-earth metal sulfide phosphors. <i>Journal of Materials Chemistry C</i> , 2015, 3, 9631-9636.	2.7	29
58	Luminescence and energy transfer of La ₅ Si ₂ BO ₁₃ : A (A=Ce ³⁺ /Tb ³⁺ /Eu ³⁺ /Sm ³⁺) phosphors under UV excitation. <i>Materials Letters</i> , 2015, 143, 71-74.	1.3	25
59	Effectively enhancing blue excitation of red phosphor Mg ₂ TiO ₄ :Mn ⁴⁺ by Bi ³⁺ sensitization. <i>Journal of Luminescence</i> , 2015, 158, 130-135.	1.5	74
60	Preparation and Luminescence Properties of Eu ²⁺ and Mn ²⁺ Coactivated Tricalcium Phosphate Phosphors. <i>Journal of the American Ceramic Society</i> , 2014, 97, 3631-3635.	1.9	12
61	Site-occupancy on the luminescence properties of a single-phase Li ₄ SrCa(SiO ₄) ₂ :Eu ²⁺ phosphor. <i>Ceramics International</i> , 2014, 40, 9831-9834.	2.3	21
62	A Strategy for Synthesizing CaZnOS:Eu ²⁺ Phosphor and Comparison of Optical Properties with CaS:Eu ²⁺ . <i>Journal of Alloys and Compounds</i> , 2014, 583, 335-339.	2.8	24
63	Synthesis and luminescent properties of UV-excited thermal stable red-emitting phosphor Ba ₃ Lu(PO ₄) ₃ :Eu ³⁺ for NUV LED. <i>Optical Materials</i> , 2014, 36, 850-853.	1.7	82
64	Site-sensitive energy transfer modes in Ca ₃ Al ₂ O ₆ :Ce ³⁺ /Tb ³⁺ /Mn ²⁺ phosphors. <i>Dalton Transactions</i> , 2014, 43, 18134-18145.	1.6	65
65	Multicolor Emission in a Single-Phase Phosphor Ca ₃ Al ₂ O ₆ :Ce ³⁺ ,Li ⁺ : Luminescence and Site Occupancy. <i>Journal of the American Ceramic Society</i> , 2014, 97, 1517-1522.	1.9	37
66	Synthesis, crystal structure and luminescence of a near ultraviolet-green to red spectral converter BaY ₂ S ₄ :Eu ²⁺ , Er ³⁺ . <i>RSC Advances</i> , 2013, 3, 16781.	1.7	15
67	LiSrBO ₃ :Eu ²⁺ : A novel broad-band red phosphor under the excitation of a blue light. <i>Materials Letters</i> , 2012, 79, 100-102.	1.3	32
68	White LED with high color rendering index based on Ca ₈ Mg(SiO ₄) ₄ Cl ₂ :Eu ²⁺ and ZnCdTe/CdSe quantum dot hybrid phosphor. <i>Materials Letters</i> , 2012, 84, 24-26.	1.3	23
69	Concentration quenching of Eu ²⁺ in a thermal-stable yellow phosphor Ca ₂ BO ₃ Cl:Eu ²⁺ for LED application. <i>Journal of Luminescence</i> , 2012, 132, 914-918.	1.5	45
70	Luminescent properties of green- or red-emitting Eu ²⁺ -doped Sr ₃ Al ₂ O ₆ for LED. <i>Journal of Luminescence</i> , 2011, 131, 2463-2467.	1.5	24
71	Synthesis and luminescence of Eu ²⁺ -doped alkaline-earth apatites for application in white LED. <i>Journal of Luminescence</i> , 2010, 130, 554-559.	1.5	63
72	An efficient and stable green phosphor SrBaSiO ₄ :Eu ²⁺ for light-emitting diodes. <i>Journal of Luminescence</i> , 2010, 130, 2288-2292.	1.5	39

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73	Luminescent properties of Sr ₂ MgSi ₂ O ₇ :Eu ²⁺ as blue phosphor for NUV light-emitting diodes. Powder Technology, 2010, 204, 263-267.	2.1	34
74	Photo-Physical Behaviors of Efficient Green Phosphor Ba ₂ MgSi ₂ O ₇ :Eu ²⁺ and Its Application in Light-Emitting Diodes. Journal of the American Ceramic Society, 2010, 93, 1368-1371.	1.9	55
75	Morphology-controllable synthesis of tetragonal LaVO ₄ nanostructures. CrystEngComm, 2010, 12, 1079-1085.	1.3	35
76	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