

Jianyan Ding

List of Publications by Year in descending order

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69
papers

1,880
citations

201674

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times ranked

1060
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#	ARTICLE	IF	CITATIONS
1	An Ultraviolet-Visible and Near-Infrared-Responed Broadband NIR Phosphor and Its NIR Spectroscopy Application. <i>Advanced Optical Materials</i> , 2020, 8, 1902003.	7.3	171
2	A novel narrow-band blue-emitting phosphor of Bi ³⁺ -activated Sr ₃ Lu ₂ Ge ₃ O ₁₂ based on a highly symmetrical crystal structure used for WLEDs and FEDs. <i>Chemical Engineering Journal</i> , 2020, 401, 126130.	12.7	107
3	Structural design of new Ce ³⁺ /Eu ²⁺ -doped or co-doped phosphors with excellent thermal stabilities for WLEDs. <i>Journal of Materials Chemistry C</i> , 2019, 7, 1792-1820.	5.5	101
4	A novel tunable extra-broad yellow-emitting nitride phosphor with zero-thermal-quenching property. <i>Chemical Engineering Journal</i> , 2020, 386, 124004.	12.7	72
5	Design of a Bismuth-Activated Narrow-Band Cyan Phosphor for Use in White Light Emitting Diodes and Field Emission Displays. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 18187-18195.	6.7	55
6	Ca _{2-x} Y _{1-x} Zr _{2-x} Al _{3-x} O ₁₂ :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.	3.1	53
7	NaBaY(BO ₃) ₂ :Ce ³⁺ , Tb ³⁺ : A novel sharp green-emitting phosphor used for WLED and FEDs. <i>Journal of the American Ceramic Society</i> , 2018, 101, 4560-4571.	3.8	53
8	MMCT-induced high-bright yellow light-emitting phosphor Bi ³⁺ -activated Ba ₂ YGaO ₅ used for WLED. <i>Chemical Engineering Journal</i> , 2022, 428, 131238.	12.7	53
9	Tunable white light of multi-cation-site Na ₂ BaCa(PO ₄) ₂ :Eu, Mn phosphor: synthesis, structure and PL/CL properties. <i>Journal of Materials Chemistry C</i> , 2017, 5, 1184-1194.	5.5	52
10	Density-functional theory calculations, luminescence properties and fluorescence ratiometric thermo-sensitivity for a novel borate based red phosphor: NaBaSc(BO ₃) ₂ :Ce ³⁺ , Mn ²⁺ . <i>Journal of Materials Chemistry C</i> , 2019, 7, 1982-1990.	5.5	47
11	K ₇ Ca ₉ [Si ₂ O ₇] ₄ F:Ce ³⁺ : a novel blue-emitting phosphor with good thermal stability for ultraviolet-excited light emitting diodes. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11605-11613.	5.5	43
12	A novel yellow-green emitting phosphor with hafnium silicon multiple rings structure for light-emitting diodes and field emission displays. <i>Chemical Engineering Journal</i> , 2020, 385, 123392.	12.7	42
13	Preparation, crystal structure and photoluminescence properties of Ce ³⁺ activated Ba ₃ Y ^y Lu _{1-y} Al ₂ O _{7.5} phosphors for near-UV LEDs. <i>Chemical Engineering Journal</i> , 2017, 315, 382-391.	12.7	40
14	Preparation and photoluminescence properties with the site-selected excitations of Bi ³⁺ -activated Ba ₃ Sc ₄ O ₉ phosphors. <i>Journal of the American Ceramic Society</i> , 2017, 100, 2612-2620.	3.8	39
15	Highly efficient and thermally stable narrow-band cyan-emitting aluminum oxynitride phosphor for WLEDs and FEDs. <i>Chemical Engineering Journal</i> , 2021, 403, 126382.	12.7	39
16	K ₄ CaGe ₃ O ₉ :Mn ²⁺ , Yb ³⁺ : a novel orange-emitting long persistent luminescent phosphor with a special nanostructure. <i>Journal of Materials Chemistry C</i> , 2018, 6, 7353-7360.	5.5	38
17	Synthesis, Crystal Structure, and Luminescence Properties of Tunable Red-Emitting Nitride Solid Solutions (Ca _{1-x} Sr _x) ₁₆ Si ₁₇ N ₃₄ :Eu ²⁺ for White LEDs. <i>Inorganic Chemistry</i> , 2017, 56, 10904-10913.	4.0	36
18	Sr _{7.3} Ca _{2.7} (PO ₄) ₆ F ₂ :Eu ²⁺ , Mn ²⁺ : a novel single-phased white light-emitting phosphor for NUV-LEDs. <i>Dalton Transactions</i> , 2015, 44, 9630-9636.	3.3	35

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19	A novel single-phase warm white emission phosphor $\text{Sr}_{3-x}\text{YAl}_2\text{O}_{7.5}:\text{Bi}^{3+},\text{Eu}^{3+}$ with energy transfer for UV white LEDs. <i>RSC Advances</i> , 2016, 6, 42618-42626.	3.6	35
20	Full-visible-spectrum lighting enabled by site-selective occupation in the high efficient and thermal stable $(\text{Rb}, \text{K})_2\text{CaPO}_4\text{F}:\text{Eu}^{2+}$ solid-solution phosphors. <i>Chemical Engineering Journal</i> , 2022, 430, 133062.	12.7	35
21	Structure, bandgap, photoluminescence evolution and thermal stability improved of Sr replacement apatite phosphors $\text{Ca}_{10-x}\text{Sr}_x(\text{PO}_4)_6\text{F}_2:\text{Eu}^{2+}$ ($x = 4, 6, 8$). <i>Dyes and Pigments</i> , 2018, 152, 75-84.	3.7	32
22	Color-Tunable Phosphor $[\text{Mg}_{1.25}\text{Si}_{1.25}\text{Al}_{2.5}\text{O}_3\text{N}_3]:\text{Eu}^{2+}$ A New Modified Polymorph of AlON with Double Sites Related Luminescence and Low Thermal Quenching. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 37307-37315.	8.0	32
23	Mechanism analysis of a narrow-band ultra-bright green phosphor with its prospect in white light-emitting diodes and field emission displays. <i>Journal of Materials Chemistry C</i> , 2019, 7, 2257-2266.	5.5	32
24	Eu^{2+} -activated $\text{Ca}_5\text{Si}_2\text{Al}_2\text{N}_8$ A novel nitridoalumosilicate red phosphor containing the special polyhedron of separated corner-shared $[\text{Al}_2\text{N}_6]$ and $[\text{Si}_2\text{N}_6]$. <i>Chemical Engineering Journal</i> , 2016, 302, 466-474.	12.7	31
25	$\hat{\text{I}}_{\pm}\text{-M}_3\text{B}_2\text{N}_4$ ($\text{M} = \text{Ca}, \text{Sr}$): Eu^{3+} : A Nitride-based Red Phosphor with a Sharp Emission Line and Broad Excitation Band Used for WLED. <i>Journal of Physical Chemistry C</i> , 2017, 121, 10102-10111.	3.1	31
26	Promotion of efficiency and thermal stability by restraining dynamic energy migration based on the highly symmetric rigid structure in the n-UV excitation green emission garnet phosphors. <i>Chemical Engineering Journal</i> , 2020, 381, 122528.	12.7	31
27	Site occupation and energy transfer of Ce^{3+} -activated lithium nitridosilicate $\text{Li}_2\text{SrSi}_2\text{N}_4$ with broad-yellow-light-emitting property and excellent thermal stability. <i>Journal of Materials Chemistry C</i> , 2018, 6, 3435-3444.	5.5	27
28	Novel red and green emitting $\text{Li}_2\text{SiN}_2:\text{Eu}^{3+}/\text{Tb}^{3+}$ phosphors with a broad charge transfer band. <i>Journal of Materials Chemistry C</i> , 2015, 3, 8542-8549.	5.5	25
29	A Cerium Doped Scandate Broad Orange-Red Emission Phosphor and its Energy Transfer-Dependent Concentration and Thermal Quenching Character. <i>Inorganic Chemistry</i> , 2018, 57, 14542-14553.	4.0	25
30	A novel self-activated white-light-emitting phosphor of $\text{Na}_2\text{TiSiO}_5$ with two Ti sites of TiO_5 and TiO_6 . <i>RSC Advances</i> , 2016, 6, 8605-8611.	3.6	22
31	Self-Activated Yellow Light Emitting Phosphors of $\hat{\text{I}}_{\pm}, \hat{\text{I}}^2\text{-Ca}_3\text{B}_2\text{N}_4$ with Long Afterglow Properties. <i>Inorganic Chemistry</i> , 2016, 55, 10990-10998.	4.0	21
32	Tunable blue-green-emitting $\text{Ca}_3\text{Si}_2\text{O}_4\text{N}_2:\text{Ce}^{3+}, \text{Eu}^{2+}$ phosphor with energy transfer for light-emitting diodes. <i>RSC Advances</i> , 2014, 4, 63569-63575.	3.6	20
33	$\text{Ca}_2\text{Na}_2\text{La}_6(\text{SiO}_4)_4(\text{PO}_4)_2\text{O}:\text{Eu}^{2+}/\text{Eu}^{3+}$: A visual dual-emitting fluorescent ratiometric temperature sensor. <i>Journal of the American Ceramic Society</i> , 2019, 102, 5443-5453.	3.8	18
34	Bismuth-activated, narrow-band, cyan garnet phosphor $\text{Ca}_3\text{Y}_2\text{Ge}_3\text{O}_{12}:\text{Bi}^{3+}$ for near-ultraviolet-pumped white LED application. <i>Journal of the American Ceramic Society</i> , 2021, 104, 6299-6308.	3.8	18
35	Synthesis and investigation of photo/cathodoluminescence properties of a novel green emission phosphor $\text{Sr}_8\text{ZnLu}(\text{PO}_4)_7:\text{Eu}^{2+}$. <i>Journal of Alloys and Compounds</i> , 2016, 671, 372-380.	5.5	17
36	A New Mode of Energy Transfer between Mn^{2+} and Eu^{2+} in Nitride-Based Phosphor $\text{SrAlSi}_4\text{N}_7$ with Tunable Light and Excellent Thermal Stability. <i>Chemistry - an Asian Journal</i> , 2018, 13, 2649-2663.	3.3	16

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37	The electronic structure, site occupancy and luminescent properties of Ce ³⁺ -activated Li ₂ Ca ₂ Si ₂ O ₇ blue phosphor. <i>Ceramics International</i> , 2020, 46, 4511-4518.	4.8	16
38	A novel Bi ³⁺ -Activated garnet phosphor with site-selected excitations and high temperature sensitivity. <i>Ceramics International</i> , 2022, 48, 23784-23792.	4.8	16
39	Blue to green emission and energy transfer between Ce ³⁺ ions in Ca ₁₅ Si ₂₀ O ₁₀ N ₃₀ . <i>Journal of Materials Chemistry C</i> , 2015, 3, 8949-8955.	5.5	15
40	Solid state reaction synthesis and photoluminescence properties of Dy ³⁺ doped Ca ₃ Sc ₂ Si ₃ O ₁₂ phosphor. <i>Materials Research Bulletin</i> , 2015, 71, 21-24.	5.2	15
41	Electronic structure and luminescence properties of self-activated and Eu ²⁺ /Ce ³⁺ doped Ca ₃ Li _{4-y} Si ₂ N _{6-y} O _y red-emitting phosphors. <i>Journal of Luminescence</i> , 2017, 186, 144-151.	3.1	15
42	Enhancing stability of Eu ²⁺ in La _{10-x} Sr _x (Si _{6-x} P _x O ₂₂ N ₂)O ₂ phosphors by the design of apatite structures with an ([Si/P] ₄) framework and tunable luminescence properties. <i>Journal of Materials Chemistry C</i> , 2017, 5, 985-994.	5.5	14
43	Insight into a concentration-sensitive red-emitting phosphor Li ₂ Ca ₄ Si ₄ O ₁₃ :Eu ³⁺ for multifunctional applications: Crystal structure, electronic structure and luminescent properties. <i>Ceramics International</i> , 2020, 46, 2845-2852.	4.8	14
44	A novel wide-excitation and narrow-band blue-emitting phosphor with hafnium silicon multiple rings structure for photoluminescence and cathodoluminescence. <i>Journal of Alloys and Compounds</i> , 2020, 831, 154825.	5.5	14
45	Full spectrum light-emitting diodes based on a new efficient zirconium silicate green phosphor for healthy lighting. <i>Materials Chemistry Frontiers</i> , 2021, 5, 7251-7258.	5.9	14
46	Regulating photoluminescence behavior by neighboring-cation-size in Sr ₈ CaX(PO ₄) ₇ : Eu ²⁺ (X=Al and Tj) phosphors. <i>Journal of Materials Chemistry C</i> , 2021, 426, 131869.	12.7	14
47	Synthesis and luminescence properties of a novel red-emitting LiSr ₄ (BN ₂) ₃ :Eu ²⁺ phosphor. <i>Dalton Transactions</i> , 2015, 44, 14507-14513.	3.3	13
48	Novel narrow-band blue light-emitting phosphor of Eu ²⁺ -activated silicate used for WLEDs. <i>Dalton Transactions</i> , 2021, 50, 16377-16385.	3.3	13
49	Synthesis, structure and photoluminescence properties of a novel color-tunable Si _{1.92} Al _{0.08} O _{1.08} N _{1.92} :Eu ²⁺ , Tb ³⁺ , Sm ²⁺ phosphor for ultraviolet white light-emitting diodes. <i>RSC Advances</i> , 2015, 5, 88477-88484.	3.8	12
50	Designing a Thermally Robust Green-Emitting Phosphor Rb ₂ HfSi ₂ O ₇ : Eu ²⁺ by an Atomic Chain Vibration Model and Its White Light-Emitting Diode Application. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 8848-8857.	6.7	12
51	LiCaAlN ₂ :Eu ³⁺ /Tb ³⁺ : Red and green phosphors for LEDs and FEDs with charge transfer transition in UV region. <i>Journal of the American Ceramic Society</i> , 2017, 100, 3088-3098.	3.8	11
52	Structure, Luminescence, and Energy Transfer of a Narrow-Band Green-Emitting Phosphor Ce ₅ Si ₃ O ₁₂ N:Tb ³⁺ for Near-Ultraviolet Light-Emitting Diode-Driven Liquid-Crystal Display. <i>ACS Applied Electronic Materials</i> , 2021, 3, 406-414.	4.3	11
53	A novel narrow band blue-emitting phosphor Rb ₂ ZrSi ₃ O ₉ : Eu ²⁺ with low thermal quenching and high quantum efficiency. <i>Ceramics International</i> , 2021, 47, 22786-22793.	4.8	11
54	Novel Orange-Emitting Phosphor Ba ₂ LuGaO ₅ :Bi ³⁺ with High Efficiency and Thermal Robustness Induced by D-Band Emission. <i>Journal of Physical Chemistry C</i> , 2022, 126, 8978-8985.	3.1	11

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55	Structure modification and covalence variation induced by cation substitution in pure nitride Ca ^{1±} -sialon phosphor. <i>Materials Research Bulletin</i> , 2016, 83, 649-656.	5.2	10
56	New strategy of designing a novel yellow-emitting phosphor Na ₄ Hf ₂ Si ₃ O ₁₂ :Eu ²⁺ for multifunctional applications. <i>Journal of Alloys and Compounds</i> , 2020, 817, 152762.	5.5	10
57	Site occupation engineering of activator in a green phosphor Sr ₈ CaLu(PO ₄) ₇ :Eu ²⁺ with high quantum yield for solid state lighting. <i>Ceramics International</i> , 2021, 47, 31940-31947.	4.8	10
58	Strong f-f excitation in titanium silicate: Near-UV LED pumped red phosphors with outstanding temperature sensitivity. <i>Ceramics International</i> , 2021, 47, 27157-27164.	4.8	9
59	Insight into a Eu ²⁺ -activated zirconium-silicate yellow phosphor for multifunctional applications. <i>Ceramics International</i> , 2020, 46, 20545-20552.	4.8	9
60	Synthesis and Luminescent Properties of the Li _{0.995} Mg _x Si ₂ Al _x N ₃ :Eu ²⁺ Phosphors. <i>Journal of the American Ceramic Society</i> , 2015, 98, 2523-2527.	3.8	8
61	The mechanism of N-vacancy defects self-activated light emitting based on CaMg ₂ N ₂ . <i>Journal of Luminescence</i> , 2019, 208, 388-393.	3.1	7
62	Full-visible-spectrum lighting realized by a novel Eu ²⁺ -doped nitride-based cyan-emitting phosphor. <i>Dalton Transactions</i> , 2021, 50, 10446-10454.	3.3	7
63	Design and research of a self-activated orange magnesium boron nitride phosphor with its application in W-LEDs. <i>Dalton Transactions</i> , 2018, 47, 15439-15447.	3.3	6
64	Li ₃ AlN ₂ as a self-activated yellow light emitting wide-bandgap semiconductor used for LEDs. <i>Journal of the American Ceramic Society</i> , 2017, 100, 1472-1480.	3.8	5
65	Discovery of new broadband yellow-emitting nitridoalumosilicate phosphor and its pWLED application. <i>Journal of the American Ceramic Society</i> , 2021, 104, 5281-5292.	3.8	5
66	Site occupation and energy transfer of Ce ³⁺ -Activated oxynitride Lu ₄ SiAlO ₈ N with broad-cyan-light-emitting property used for WLEDs. <i>Ceramics International</i> , 2020, 46, 25366-25373.	4.8	3
67	A broadband emitting Sr ₈ MgGa(PO ₄) ₇ :Eu ²⁺ phosphor for application in white light-emitting diodes with excellent color rendering index. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	2.3	3
68	Effect of a solid solution of AlN on the crystal structure and optical properties of LiSi ₂ N ₃ :Eu phosphors. <i>RSC Advances</i> , 2015, 5, 31255-31261.	3.6	2
69	Synthesis and spectral properties of rare-earth free tunable full-color-emitting Si-BCNO phosphors. <i>Journal of Luminescence</i> , 2018, 201, 90-97.	3.1	1