

# Jianyan Ding

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8201966/publications.pdf>

Version: 2024-02-01

69  
papers

1,880  
citations

201674

27  
h-index

302126

39  
g-index

69  
all docs

69  
docs citations

69  
times ranked

1060  
citing authors

#	ARTICLE	IF	CITATIONS
1	MMCT-induced high-bright yellow light-emitting phosphor Bi <sup>3+</sup> -activated Ba <sub>2</sub> YGaO <sub>5</sub> used for WLED. Chemical Engineering Journal, 2022, 428, 131238.	12.7	53
2	Full-visible-spectrum lighting enabled by site-selective occupation in the high efficient and thermal stable (Rb, K) <sub>2</sub> CaPO <sub>4</sub> F: Eu <sup>2+</sup> solid-solution phosphors. Chemical Engineering Journal, 2022, 430, 133062.	12.7	35
3	A novel Bi <sup>3+</sup> -Activated garnet phosphor with site-selected excitations and high temperature sensitivity. Ceramics International, 2022, 48, 23784-23792.	4.8	16
4	Novel Orange-Emitting Phosphor Ba <sub>2</sub> LuGaO <sub>5</sub> :Bi <sup>3+</sup> with High Efficiency and Thermal Robustness Induced by D-Band Emission. Journal of Physical Chemistry C, 2022, 126, 8978-8985.	3.1	11
5	Highly efficient and thermally stable narrow-band cyan-emitting aluminum oxynitride phosphor for WLEDs and FEDs. Chemical Engineering Journal, 2021, 403, 126382.	12.7	39
6	Structure, Luminescence, and Energy Transfer of a Narrow-Band Green-Emitting Phosphor Ce <sub>5</sub> Si <sub>3</sub> O <sub>12</sub> N:Tb <sup>3+</sup> for Near-Ultraviolet Light-Emitting Diode-Driven Liquid-Crystal Display. ACS Applied Electronic Materials, 2021, 3, 406-414.	4.3	11
7	Full spectrum light-emitting diodes based on a new efficient zirconium silicate green phosphor for healthy lighting. Materials Chemistry Frontiers, 2021, 5, 7251-7258.	5.9	14
8	Full-visible-spectrum lighting realized by a novel Eu <sup>2+</sup> -doped nitride-based cyan-emitting phosphor. Dalton Transactions, 2021, 50, 10446-10454.	3.3	7
9	A broadband emitting Sr <sub>8</sub> MgGa(PO <sub>4</sub> ) <sub>7</sub> :Eu <sup>2+</sup> phosphor for application in white light-emitting diodes with excellent color rendering index. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	3
10	Discovery of new broadband yellow-emitting nitridoalumosilicate phosphor and its p-WLED application. Journal of the American Ceramic Society, 2021, 104, 5281-5292.	3.8	5
11	Designing a Thermally Robust Green-Emitting Phosphor Rb <sub>2</sub> HfSi <sub>2</sub> O <sub>7</sub> : Eu <sup>2+</sup> by an Atomic Chain Vibration Model and Its White Light-Emitting Diode Application. ACS Sustainable Chemistry and Engineering, 2021, 9, 8848-8857.	6.7	12
12	Bismuth-activated, narrow-band, cyan garnet phosphor Ca <sub>3</sub> Y <sub>2</sub> Ge <sub>3</sub> O <sub>12</sub> :Bi <sup>3+</sup> for near-ultraviolet-pumped white LED application. Journal of the American Ceramic Society, 2021, 104, 6299-6308.	3.8	18
13	A novel narrow band blue-emitting phosphor Rb <sub>2</sub> ZrSi <sub>3</sub> O <sub>9</sub> : Eu <sup>2+</sup> with low thermal quenching and high quantum efficiency. Ceramics International, 2021, 47, 22786-22793.	4.8	11
14	Strong f-f excitation in titanium silicate: Near-UV LED pumped red phosphors with outstanding temperature sensitivity. Ceramics International, 2021, 47, 27157-27164.	4.8	9
15	Site occupation engineering of activator in a green phosphor Sr <sub>8</sub> CaLu(PO <sub>4</sub> ) <sub>7</sub> : Eu <sup>2+</sup> with high quantum yield for solid state lighting. Ceramics International, 2021, 47, 31940-31947.	4.8	10
16	Regulating photoluminescence behavior by neighboring-cation-size in Sr <sub>8</sub> CaX(PO <sub>4</sub> ) <sub>7</sub> : Eu <sup>2+</sup> (X=Al and Tj) ETQq0 0 0 rgBT /Overlock 1 2021, 426, 131869.	12.7	14
17	Novel narrow-band blue light-emitting phosphor of Eu <sup>2+</sup> -activated silicate used for WLEDs. Dalton Transactions, 2021, 50, 16377-16385.	3.3	13
18	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. Chemical Engineering Journal, 2020, 381, 122528.	12.7	31

#	ARTICLE	IF	CITATIONS
19	New strategy of designing a novel yellow-emitting phosphor Na <sub>4</sub> Hf <sub>2</sub> Si <sub>3</sub> O <sub>12</sub> :Eu <sup>2+</sup> for multifunctional applications. <i>Journal of Alloys and Compounds</i> , 2020, 817, 152762.	5.5	10
20	Insight into a concentration-sensitive red-emitting phosphor Li <sub>2</sub> Ca <sub>4</sub> Si <sub>4</sub> O <sub>13</sub> :Eu <sup>3+</sup> for multifunctional applications: Crystal structure, electronic structure and luminescent properties. <i>Ceramics International</i> , 2020, 46, 2845-2852.	4.8	14
21	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
22	The electronic structure, site occupancy and luminescent properties of Ce <sup>3+</sup> -activated Li <sub>2</sub> Ca <sub>2</sub> Si <sub>2</sub> O <sub>7</sub> blue phosphor. <i>Ceramics International</i> , 2020, 46, 4511-4518.	4.8	16
23	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
24	Site occupation and energy transfer of Ce <sup>3+</sup> -Activated oxynitride Lu <sub>4</sub> SiAlO <sub>8</sub> N with broad-cyan-light-emitting property used for WLEDs. <i>Ceramics International</i> , 2020, 46, 25366-25373.	4.8	3
25	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
26	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
27	A novel narrow-band blue-emitting phosphor of Bi <sup>3+</sup> -activated Sr <sub>3</sub> Lu <sub>2</sub> Ge <sub>3</sub> O <sub>12</sub> based on a highly symmetrical crystal structure used for WLEDs and FEDs. <i>Chemical Engineering Journal</i> , 2020, 401, 126130.	12.7	107
28	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
29	Insight into a Eu <sup>2+</sup> -activated zirconium-silicate yellow phosphor for multifunctional applications. <i>Ceramics International</i> , 2020, 46, 20545-20552.	4.8	9
30	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
31	Structural design of new Ce <sup>3+</sup> /Eu <sup>2+</sup> -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
32	Density-functional theory calculations, luminescence properties and fluorescence ratiometric thermo-sensitivity for a novel borate based red phosphor: NaBaSc(BO <sub>3</sub> ) <sub>2</sub> :Ce <sup>3+</sup> ,Mn <sup>2+</sup> . <i>Journal of Materials Chemistry C</i> , 2019, 7, 1982-1990.	5.5	47
33	Ca <sub>2</sub> Na <sub>2</sub> La <sub>6</sub> (SiO <sub>4</sub> ) <sub>4</sub> (PO <sub>4</sub> ) <sub>2</sub> O:Eu <sup>2+</sup> /Eu <sup>3+</sup> : A visual dual-emitting fluorescent ratiometric temperature sensor. <i>Journal of the American Ceramic Society</i> , 2019, 102, 5443-5453.	3.8	18
34	The mechanism of N-vacancy defects self-activated light emitting based on CaMg <sub>2</sub> N <sub>2</sub> . <i>Journal of Luminescence</i> , 2019, 208, 388-393.	3.1	7
35	Site occupation and energy transfer of Ce <sup>3+</sup> -activated lithium nitridosilicate Li <sub>2</sub> SrSi <sub>2</sub> N <sub>4</sub> with broad-yellow-light-emitting property and excellent thermal stability. <i>Journal of Materials Chemistry C</i> , 2018, 6, 3435-3444.	5.5	27
36	NaBaY(BO <sub>3</sub> ) <sub>2</sub> :Ce <sup>3+</sup> ,Tb <sup>3+</sup> : 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

#	ARTICLE	IF	CITATIONS
37	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
38	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
39	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
40	Color-Tunable Phosphor $[\text{Mg}_{1.25}\text{Si}_{1.25}\text{Al}_{2.5}\text{O}_3\text{N}_3:\text{Eu}^{2+}]_x$ New Modified Polymorph of AlON with Double Sites Related Luminescence and Low Thermal Quenching. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 37307-37315.	8.0	32
41	A New Mode of Energy Transfer between $\text{Mn}^{2+}$ and $\text{Eu}^{2+}$ 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
42	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
43	$\text{K}_4\text{CaGe}_3\text{O}_9:\text{Mn}^{2+}, \text{Yb}^{3+}$ : 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
44	$\text{Li}_3\text{AlN}_2$ 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
45	Electronic structure and luminescence properties of self-activated and $\text{Eu}^{2+}/\text{Ce}^{3+}$ doped $\text{Ca}_3\text{Li}_4\text{Si}_2\text{N}_6\text{O}_y$ red-emitting phosphors. <i>Journal of Luminescence</i> , 2017, 186, 144-151.	3.1	15
46	Preparation, crystal structure and photoluminescence properties of $\text{Ce}^{3+}$ activated $\text{Ba}_3\text{Y}_1\text{Lu}_y\text{Al}_2\text{O}_7.5$ phosphors for near-UV LEDs. <i>Chemical Engineering Journal</i> , 2017, 315, 382-391.	12.7	40
47	$\text{LiCaAlN}_2:\text{Eu}^{3+}/\text{Tb}^{3+}$ : Red and green phosphors for LEDs and FEDs with charge transfer transition in near-UV region. <i>Journal of the American Ceramic Society</i> , 2017, 100, 3088-3098.	3.8	11
48	$\text{M}_3\text{BN}_4$ ( $\text{M} = \text{Ca}, \text{Sr}$ ): $\text{Eu}^{3+}$ : 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
49	Preparation and photoluminescence properties with the site-selected excitations of $\text{Bi}^{3+}$ -activated $\text{Ba}_3\text{Sc}_4\text{O}_9$ phosphors. <i>Journal of the American Ceramic Society</i> , 2017, 100, 2612-2620.	3.8	39
50	Tunable white light of multi-cation-site $\text{Na}_2\text{BaCa}(\text{PO}_4)_2:\text{Eu}, \text{Mn}$ phosphor: synthesis, structure and PL/CL properties. <i>Journal of Materials Chemistry C</i> , 2017, 5, 1184-1194.	5.5	52
51	Enhancing stability of $\text{Eu}^{2+}$ in $\text{La}_{10-x}\text{Sr}_x(\text{Si}_6\text{P}_x\text{O}_{22}\text{N}_2)\text{O}_2$ phosphors by the design of apatite structures with an $([\text{Si}/\text{P}][\text{O}/\text{N}]_4)$ framework and tunable luminescence properties. <i>Journal of Materials Chemistry C</i> , 2017, 5, 985-994.	5.5	14
52	$\text{K}_7\text{Ca}_9[\text{Si}_2\text{O}_7]_4\text{F}:\text{Ce}^{3+}$ : 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
53	Synthesis, Crystal Structure, and Luminescence Properties of Tunable Red-Emitting Nitride Solid Solutions $(\text{Ca}_{16-x}\text{Sr}_x\text{Si}_{17}\text{N}_{34}:\text{Eu}^{2+})$ for White LEDs. <i>Inorganic Chemistry</i> , 2017, 56, 10904-10913.	4.0	36
54	$\text{Ca}_2\text{Y}_1\text{Zr}_2\text{Al}_3\text{O}_{12}:\text{Ce}^{3+}$ 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

#	ARTICLE	IF	CITATIONS
55	Eu <sup>2+</sup> -activated Ca <sub>5</sub> Si <sub>2</sub> Al <sub>2</sub> N <sub>8</sub> A novel nitridoalumosilicate red phosphor containing the special polyhedron of separated corner-shared [Al <sub>2</sub> N <sub>6</sub> ] and [Si <sub>2</sub> N <sub>6</sub> ]. Chemical Engineering Journal, 2016, 302, 466-474.	12.7	31
56	A novel single-phase warm white emission phosphor Sr <sub>3</sub> YAl <sub>2</sub> O <sub>7.5</sub> :Bi <sup>3+</sup> ,Eu <sup>3+</sup> with energy transfer for UV white LEDs. RSC Advances, 2016, 6, 42618-42626.	3.6	35
57	Structure modification and covalence variation induced by cation substitution in pure nitride Ca- $\beta$ -sialon phosphor. Materials Research Bulletin, 2016, 83, 649-656.	5.2	10
58	Self-Activated Yellow Light Emitting Phosphors of $\beta$ -Ca <sub>3</sub> B <sub>2</sub> N <sub>4</sub> with Long Afterglow Properties. Inorganic Chemistry, 2016, 55, 10990-10998.	4.0	21
59	A novel self-activated white-light-emitting phosphor of Na <sub>2</sub> TiSiO <sub>5</sub> with two Ti sites of TiO <sub>5</sub> and TiO <sub>6</sub> . RSC Advances, 2016, 6, 8605-8611.	3.6	22
60	Synthesis and investigation of photo/cathodoluminescence properties of a novel green emission phosphor Sr <sub>8</sub> ZnLu(PO <sub>4</sub> ) <sub>7</sub> :Eu <sup>2+</sup> . Journal of Alloys and Compounds, 2016, 671, 372-380.	5.5	17
61	Synthesis and Luminescent Properties of the Li <sub>0.995</sub> Mg <sub>x</sub> Si <sub>2</sub> Al <sub>x</sub> N <sub>3</sub> :Eu <sup>2+</sup> Phosphors. Journal of the American Ceramic Society, 2015, 98, 2523-2527.	3.8	8
62	Blue to green emission and energy transfer between Ce <sup>3+</sup> ions in Ca <sub>15</sub> Si <sub>20</sub> O <sub>10</sub> N <sub>30</sub> . Journal of Materials Chemistry C, 2015, 3, 8949-8955.	5.5	15
63	Solid state reaction synthesis and photoluminescence properties of Dy <sup>3+</sup> doped Ca <sub>3</sub> Sc <sub>2</sub> Si <sub>3</sub> O <sub>12</sub> phosphor. Materials Research Bulletin, 2015, 71, 21-24.	5.2	15
64	Synthesis and luminescence properties of a novel red-emitting LiSr <sub>4</sub> (BN <sub>2</sub> ) <sub>3</sub> :Eu <sup>2+</sup> phosphor. Dalton Transactions, 2015, 44, 14507-14513.	3.3	13
65	Novel red and green emitting Li <sub>2</sub> SiN <sub>2</sub> :Eu <sup>3+</sup> /Tb <sup>3+</sup> phosphors with a broad charge transfer band. Journal of Materials Chemistry C, 2015, 3, 8542-8549.	5.5	25
66	Effect of a solid solution of AlN on the crystal structure and optical properties of LiSi <sub>2</sub> N <sub>3</sub> :Eu phosphors. RSC Advances, 2015, 5, 31255-31261.	3.6	2
67	Sr <sub>7.3</sub> Ca <sub>2.7</sub> (PO <sub>4</sub> ) <sub>6</sub> F <sub>2</sub> :Eu <sup>2+</sup> ,Mn <sup>2+</sup> : a novel single-phased white light-emitting phosphor for NUV-LEDs. Dalton Transactions, 2015, 44, 9630-9636.	3.3	35
68	Synthesis, structure and photoluminescence properties of a novel color-tunable Si <sub>1.92</sub> Al <sub>0.08</sub> O <sub>1.08</sub> N <sub>1.92</sub> :Eu <sup>2+</sup> ,Tb <sup>3+</sup> ,Sm <sup>2+</sup> for ultraviolet white light-emitting diodes. RSC Advances, 2015, 5, 88477-88484.	3.5	12
69	Tunable blue-green-emitting Ca <sub>3</sub> Si <sub>2</sub> O <sub>4</sub> N <sub>2</sub> :Ce <sup>3+</sup> ,Eu <sup>2+</sup> phosphor with energy transfer for light-emitting diodes. RSC Advances, 2014, 4, 63569-63575.	3.6	20