

# Chenning Zhang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4010440/publications.pdf>

Version: 2024-02-01

39  
papers

1,130  
citations

471061

17  
h-index

395343

33  
g-index

39  
all docs

39  
docs citations

39  
times ranked

1086  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure evolution and photoluminescence of $\text{Lu}_3(\text{Al,Mg})_2(\text{Al,Si})_3\text{O}_{12}:\text{Ce}^{3+}$ phosphors: new yellow-color converters for blue LED-driven solid state lighting. <i>Journal of Materials Chemistry C</i> , 2016, 4, 6855-6863.	2.7	271
2	New garnet structure phosphors, $\text{Lu}_3\text{Y}_x\text{MgAl}_3\text{SiO}_{12}:\text{Ce}^{3+}$ ( $x = 0\sim 3$ ), developed by solid solution design. <i>Journal of Materials Chemistry C</i> , 2016, 4, 2359-2366.	2.7	86
3	A Thermally Robust $\text{La}_3\text{Si}_6\text{N}_{11}:\text{Ce}^{\text{III}}$ Glass Film for High-Brightness Blue-Laser-Driven Solid State Lighting. <i>Laser and Photonics Reviews</i> , 2019, 13, 1800216.	4.4	86
4	Structure, luminescence and energy transfer in $\text{Ce}^{3+}$ and $\text{Mn}^{2+}$ codoped $\beta$ -AlON phosphors. <i>Journal of Materials Chemistry C</i> , 2019, 7, 733-742.	2.7	66
5	Reduced thermal degradation of the red-emitting $\text{Sr}_2\text{Si}_5\text{N}_8:\text{Eu}^{2+}$ phosphor via thermal treatment in nitrogen. <i>Journal of Materials Chemistry C</i> , 2015, 3, 7642-7651.	2.7	60
6	Crystal Structure and Photoluminescence Properties of Red-Emitting $\text{Ca}_9\text{La}_{1-x}(\text{VO}_4)_7:\text{Eu}^{3+}$ Phosphors for White Light-Emitting Diodes. <i>Journal of the American Ceramic Society</i> , 2010, 93, 4081-4086.	1.9	53
7	Strong Energy-Transfer-Induced Enhancement of Luminescence Efficiency of $\text{Eu}^{2+}$ - and $\text{Mn}^{2+}$ -Codoped Gamma-AlON for Near-UV-LED-Pumped Solid State Lighting. <i>Inorganic Chemistry</i> , 2015, 54, 5556-5565.	1.9	51
8	Temperature Dependent Luminescence of Yellow-Emitting $\beta$ -SiAlON: $\text{Eu}^{2+}$ Oxynitride Phosphors for White Light-Emitting Diodes. <i>Journal of the American Ceramic Society</i> , 2009, 92, 2668-2673.	1.9	48
9	Prevention of thermal- and moisture-induced degradation of the photoluminescence properties of the $\text{Sr}_2\text{Si}_5\text{N}_8:\text{Eu}^{2+}$ red phosphor by thermal post-treatment in $\text{N}_2$ . <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 12494-12504.	1.3	36
10	Structural evolutions and significantly reduced thermal degradation of red-emitting $\text{Sr}_2\text{Si}_5\text{N}_8:\text{Eu}^{2+}$ via carbon doping. <i>Journal of Materials Chemistry C</i> , 2017, 5, 8927-8935.	2.7	35
11	Surface modification of $\text{Ca}_{1-x}\text{SiAlON}:\text{Eu}^{2+}$ phosphor particles by $\text{SiO}_2$ coating and fabrication of its deposit by electrophoretic deposition (EPD) process. <i>Applied Surface Science</i> , 2013, 280, 229-234.	3.1	28
12	Crystal and Electronic Structures, Photoluminescence Properties of $\text{Eu}^{2+}$ -Doped Novel Oxynitride $\text{Ba}_4\text{Si}_6\text{O}_{16-3x/2}\text{N}_x$ . <i>Materials</i> , 2010, 3, 1692-1708.	1.3	27
13	Enhanced visible-light photocatalytic activity of anatase-rutile mixed-phase nano-size powder given by high-temperature heat treatment. <i>Royal Society Open Science</i> , 2020, 7, 191539.	1.1	25
14	Role of Fluxes in Optimizing the Optical Properties of $\text{Sr}_{0.95}\text{Si}_2\text{O}_2\text{N}_2:0.05\text{Eu}^{2+}$ Green-Emitting Phosphor. <i>Materials</i> , 2013, 6, 2862-2872.	1.3	24
15	Synthesis and Photoluminescence Properties of a Blue-Emitting $\text{La}_3\text{Si}_8\text{N}_{11}\text{O}_4:\text{Eu}^{2+}$ Phosphor. <i>Inorganic Chemistry</i> , 2017, 56, 14170-14177.	1.9	22
16	Blue-Emitting $\text{Li}_2\text{Sr}_{1-x}\text{Ce}_x\text{SiO}_4$ Phosphors for Ultraviolet White Light-Emitting Diodes. <i>Journal of the American Ceramic Society</i> , 2010, 93, 2018-2023.	1.9	21
17	Yellow-Emitting $\text{Y}_3\text{Si}_6\text{N}_{11}:\text{Ce}^{3+}$ Phosphors for White Light-Emitting Diodes (LEDs). <i>Journal of the American Ceramic Society</i> , 2013, 96, 1688-1690.	1.9	18
18	High-concentration niobium (V) doping into $\text{TiO}_2$ nanoparticles synthesized by thermal plasma processing. <i>Journal of Materials Research</i> , 2011, 26, 658-671.	1.2	17

#	ARTICLE	IF	CITATIONS
19	Luminescence properties of a blue-emitting phosphor: (Sr $_{1-x}$ Eu $_x$ )Si $_9$ Al $_9$ ON $_3$ 1 (0<math>x</math>1). Journal of Solid State Chemistry, 2013, 207, 49-54.	1.4	14
20	Enhanced quantum efficiency and thermal stability in tunable yellow-emitting Sr Ca $_1$ -AlSiN $_3$ :Ce $_3^+$ phosphor. Journal of Alloys and Compounds, 2020, 831, 154791.	2.8	12
21	Phosphor Deposits of $\beta$ -Sialon:Eu $_2^+$ Mixed with SnO $_2$ Nanoparticles Fabricated by the Electrophoretic Deposition (EPD) Process. Materials, 2014, 7, 3623-3633.	1.3	11
22	Beta-sialon phosphor deposits fabricated by electrophoretic deposition (EPD) process in a magnetic field. Ceramics International, 2014, 40, 8369-8375.	2.3	11
23	Photocatalytic activities of europium (III) and niobium (V) co-doped TiO $_2$ nanopowders synthesized in Ar/O $_2$ radio-frequency thermal plasmas. Journal of Alloys and Compounds, 2014, 606, 37-43.	2.8	11
24	Microwave Assisted Sintering of Thermally Stable BaMgAl $_{10}$ O $_{17}$ :Eu $^{2+}$ Phosphors. ECS Journal of Solid State Science and Technology, 2013, 2, R196-R200.	0.9	10
25	Uniform and fine Mg- $\beta$ -ALON powders prepared from MgAl $_2$ O $_4$ : A promising precursor material for highly-transparent Mg- $\beta$ -ALON ceramics. Journal of the European Ceramic Society, 2019, 39, 928-933.	2.8	10
26	Surface Modification on Cellulose Nanofibers by TiO $_2$ Coating for Achieving High Capture Efficiency of Nanoparticles. Coatings, 2019, 9, 139.	1.2	9
27	Nest-like microstructured biocompatible membrane fabricated by hydrothermally-synthesized hydroxyapatite (HAp) whiskers. Journal of the European Ceramic Society, 2020, 40, 513-520.	2.8	9
28	Positional-dependent luminescence property of $\beta$ -SiALON:Eu $_2^+$ phosphor particle. Applied Physics Letters, 2014, 104, .	1.5	8
29	Photoluminescence efficiency significantly enhanced by surface modification of SiO $_2$ coating on $\beta$ -sialon:Eu $_2^+$ phosphor particle. Journal of Alloys and Compounds, 2018, 741, 454-458.	2.8	7
30	Effect of Surface Modification with TiO $_2$ Coating on Improving Filtration Efficiency of Whisker-Hydroxyapatite (HAp) Membrane. Coatings, 2020, 10, 670.	1.2	6
31	Synthesis of Eu-doped hydroxyapatite whiskers and fabrication of phosphor layer via electrophoretic deposition process. Journal of the American Ceramic Society, 2020, 103, 6780-6792.	1.9	6
32	Influence of niobium doping on phase composition and defect-mediated photoluminescence properties of Eu $_3^+$ -doped TiO $_2$ nanopowders synthesized in Ar/O $_2$ thermal plasma. Journal of Alloys and Compounds, 2011, 509, 8944-8951.	2.8	5
33	Significantly improved photoluminescence of the green-emitting $\beta$ -sialon:Eu $^{2+}$ phosphor via surface coating of TiO $_2$ . Journal of the American Ceramic Society, 2019, 102, 294-302.	1.9	5
34	Controllable Design of Various Microstructures for Hydroxyapatite Coatings by Electrophoresis Deposition Process for Biomedical Applications. Journal of the Electrochemical Society, 2019, 166, D700-D706.	1.3	5
35	Effect of crystalline orientation on photocatalytic performance for Nb-doped TiO $_2$ nanoparticles. Advanced Powder Technology, 2021, 32, 4149-4154.	2.0	5
36	Solution-Based Approach for the Continuous Fabrication of Thin Lithium-Ion Battery Electrodes by Wet Mechanochemical Synthesis and Electrophoretic Deposition. Advanced Engineering Materials, 2021, 23, 2100524.	1.6	4

#	ARTICLE	IF	CITATIONS
37	Phase composition and magnetic properties of niobium-iron codoped TiO <sub>2</sub> nanoparticles synthesized in Ar/O <sub>2</sub> radio-frequency thermal plasma. <i>Journal of Solid State Chemistry</i> , 2011, 184, 2525-2532.	1.4	3
38	Antibacterial-functionalized Ag loaded-hydroxyapatite (HAp) coatings fabricated by electrophoretic deposition (EPD) process. <i>Materials Letters</i> , 2021, 297, 129955.	1.3	3
39	Crystalline-Oriented Beta-Sialon:Eu <sup>2+</sup> Deposits Fabricated by Electrophoretic Deposition (EPD) within Strong Magnetic Field. <i>ECS Journal of Solid State Science and Technology</i> , 2014, 3, R195-R199.	0.9	2