Ge Zhu

List of Publications by Year in Descending Order

110 papers	2,563 citations	28 h-index	46 g-index
118 ext. papers	2,956 ext. citations	4.5 avg, IF	5.28 L-index

#	Paper	IF	Citations
110	A novel single-phased white light emitting phosphor with single Eu2+ doped whitlockite structure. *Advanced Powder Technology*, **2022**, 33, 103394	4.6	2
109	Ultrasensitive Pressure-Induced Optical Materials: Europium-Doped Hafnium Silicates with a Khibinskite Structure for Optical Pressure Sensors and WLEDs.. *Inorganic Chemistry*, **2022**,	5.1	1
108	Te4+/Bi3+ Co-Doped Double Perovskites with Tunable Dual-Emission for Contactless Light Sensor, Encrypted Information Transmission and White Light Emitting Diodes. *Chemical Engineering Journal* , **2022**, 431, 134135	14.7	5
107	Unveiling the origin of performance enhancement of photovoltaic devices by upconversion nanoparticles. *Journal of Energy Chemistry*, **2022**, 65, 524-531	12	1
106	Azaphilone derivatives with anti-inflammatory activity from the mangrove endophytic fungus Penicillium sclerotiorum ZJHJJ-18.. *Bioorganic Chemistry*, **2022**, 122, 105721	5.1	3
105	Origin, Influence, and Countermeasures of Defects in Perovskite Solar Cells. *Small*, **2021**, 17, e2005495	11	13
104	Structural and spectroscopic features of high color purity red-emitting phosphors SrMg(PO): Re (Re= Eu, Sm, Pr). *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2021**, 251, 119417	4.4	6
103	Local structure modification for identifying the site preference and characteristic luminescence property of Eu2+ ions in full-color emission phosphors Sr18Mg3(PO4)14:Eu2+. *Journal of Alloys and Compounds*, **2021**, 862, 158634	5.7	6
102	Strategies from small-area to scalable fabrication for perovskite solar cells. *Journal of Energy Chemistry*, **2021**, 57, 567-586	12	2
101	Controllable luminescence and efficient energy transfer investigation of a novel white light emission phosphor CaNaMg(PO): Dy, Tm with high thermal stability. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2021**, 248, 119181	4.4	3
100	Novel thermally robust warm white light emitting phosphor Ca18Li3Y(PO4)14:Dy3+: Synthesis, crystal structure and luminescence property investigation. *Journal of Molecular Structure*, **2021**, 1228, 129471	3.4	5
99	A novel high efficiency and ultra-stable red emitting europium doped pyrophosphate phosphor for multifunctional applications. *Inorganic Chemistry Frontiers*, **2021**, 8, 3984-3997	6.8	3
98	Structure evolution and tunable magneto-optical multifunctional property study of novel Ca18K3Sc1-xSmx(PO4)14 phosphors. *Journal of the American Ceramic Society*, **2021**, 104, 2655-2668	3.8	0
97	Thermally robust and valence-variation-induced white-light emission of a novel stannate phosphor SrAlSnO:Dy: crystal structure, luminescence property, and mechanism investigation. *Dalton Transactions*, **2020**, 49, 15800-15809	4.3	3
96	Optimizing the substrate pre-heating and post-annealing temperatures for fabricating high-performance carbon-based CsPbIBr2 inorganic perovskite solar cells. *Electrochimica Acta*, **2020** , 349, 136354	6.7	27
95	Synthesis and luminescent properties of Sr2SnO4: Pr3+, M+ (M=Li, Na and K) phosphors with layered perovskite-related structure. *Journal of Luminescence*, **2020**, 226, 117423	3.8	8
94	Novel self-assembled microstructures made from Dy doped AlN nanosheets: Formation mechanism, photoluminescence and magnetic properties. *Applied Surface Science*, **2020**, 527, 146825	6.7	3

93	High pressure photoluminescence properties and structural stability of Eu doped AlN nanowires synthesized via a direct nitridation strategy. *Journal of Alloys and Compounds*, **2020**, 823, 153804	5.7	4
92	Improvement of emission and thermal stability induced by selected occupation of Al3+ in Ba3Si6O12N2:Eu2+ phosphors. *Journal of Luminescence*, **2020**, 221, 117060	3.8	7
91	Novel orange phosphate phosphors Sr19Mg2(PO4)14:Eu2+: crystal structure, luminescence and thermal quenching property investigation. *Journal of Materials Science: Materials in Electronics*, **2020**, 31, 7164-7171	2.1	1
90	Redesign and manually control the commercial plasma green Zn2SiO4:Mn2+ phosphor with high quantum efficiency for white light emitting diodes. *Journal of Alloys and Compounds*, **2020**, 814, 152340	5.7	19
89	Synthesis and Photoluminescence Properties of Double Perovskite Phosphor Ba6Y2W3O18: Mg2+, Mn4+ for Plant Cultivation. *ECS Journal of Solid State Science and Technology*, **2019**, 8, R119-R126	2	3
88	Highly Eu ions doped novel red emission solid solution phosphors CaLi(Bi,Eu)(PO): structure design, characteristic luminescence and abnormal thermal quenching behavior investigation. *Dalton Transactions*, **2019**, 48, 1624-1632	4.3	40
87	Color-tunable luminescence and energy transfer properties of Dy3+/Tm3+ co-doped Sr9Mg1.5(PO4)7 phosphor for light-emitting diodes. *Journal of Luminescence*, **2019**, 214, 116521	3.8	14
86	Tunable optical and magnetic properties of Tm-doped AlN nanostructures. *Journal of Magnetism and Magnetic Materials*, **2019**, 487, 165305	2.8	6
85	The structure and photoluminescence properties of a novel orange emission phosphor Ba3Sc1.9Al0.1B4O12: Eu2+ excited by NUV light. *Optical Materials*, **2019**, 92, 195-205	3.3	4
84	Novel layered niobate phosphors SrBaNb4O12:Re3+ (Re= Eu, Dy, Sm and Pr): Crystal structure, electronic structure and luminescence property investigation. *Journal of Luminescence*, **2019**, 211, 76-81	3.8	10
83	Optical and thermal quenching properties of Al-doped Ba1.98SiO4:0.02Eu2+ phosphor synthesized with different Si3N4/SiO2 ratio. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 4599-4606	2.1	
82	Novel high color purity phosphors Sr9Mg1.5(PO4)7: Sm3+, R+(R = Li, Na, K): Crystal structure, luminescence and thermal quenching property investigation. *Journal of Luminescence*, **2019**, 215, 116606	3.8	8
81	Synthesis, Luminescence Property and Thermal Quenching Investigation of Eulytite-type Orthophosphates Ba7Hf(PO4)6:Eu3+ Phosphor. *ECS Journal of Solid State Science and Technology*, **2019**, 8, R133-R137	2	2
80	Hydrothermal epitaxy and luminescent properties of LaVO4:Cu,Eu nanorod array films. *Optical Materials Express*, **2019**, 9, 4228	2.6	0
79	Synthesis and luminescent properties investigation of novel red emission phosphors Ca7Zn2(PO4)6: Re3+ (Re□Eu, Sm and Pr). *Journal of Molecular Structure*, **2019**, 1181, 203-208	3.4	6
78	Plasma-assisted synthesis of ZnSe hollow microspheres with strong red emission. *Journal of Luminescence*, **2019**, 206, 33-38	3.8	12
77	Formation, photoluminescence and ferromagnetic characterization of Ce doped AlN hierarchical nanostructures. *Journal of Alloys and Compounds*, **2019**, 775, 498-502	5.7	15
76	La2O2S:Tm/Yb as a novel phosphor for highly pure near-infrared upconversion luminescence. *Scripta Materialia*, **2018**, 149, 121-124	5.6	18

75	Novel red-emitting phosphor Ba3ZrNb4O15:Pr3+: The structure, characteristic photoluminescence property and thermal quenching behaviour investigation. *Materials Research Bulletin*, **2018**, 104, 173-178	5.1	13
74	Novel thermal stable Sm3+ doped barium hafnium phosphate red phosphor: the synthesis and characteristic luminescent property investigation. *Journal of Materials Science: Materials in Electronics*, **2018**, 29, 4895-4899	2.1	6
73	A novel temperature sensitive Sm3+ doped niobate orange-red phosphor: The synthesis and characteristic luminescent property investigation. *Journal of Luminescence*, **2018**, 196, 32-35	3.8	28
72	-Graphene Crosslinked CsPbI3 Quantum Dots for High Efficiency Solar Cells with Much Improved Stability. *Advanced Energy Materials*, **2018**, 8, 1800007	21.8	167
71	Photo/cathodoluminescence and stability of Gd2O2S:Tb,Pr green phosphor hexagons calcined from layered hydroxide sulfate. *Journal of the American Ceramic Society*, **2018**, 101, 5477-5486	3.8	14
70	Synthesis, Luminescence Property and Thermal Quenching Investigation of Niobate Phosphors Ba3ZrNb4O15:Eu3+under Multiple Excitations. *ECS Journal of Solid State Science and Technology*, **2018**, 7, R94-R98	2	3
69	Crystal structure and characteristic luminescence properties investigation of novel red-emitting phosphor Na3MgZr(PO4)3:Eu3+ for white light-emitting diodes. *Journal of Materials Science: Materials in Electronics*, **2018**, 29, 2216-2221	2.1	9
68	Preparation, luminescence and electrons selected energy level transition of Dy3+ in Ba7Hf(PO4)6 through temperature control. *Optical Materials*, **2018**, 86, 66-70	3.3	2
67	Effect of doping Sr2+ on luminescence and abnormal thermal quenching behavior of silicate solid-solution green phosphor Ba9Lu2Si6O24:Eu2+. *Journal of Materials Science: Materials in Electronics*, **2018**, 29, 19923-19931	2.1	3
66	Efficient and controllable photoluminescence in novel solid solution Ca1SrxHf4(PO4)6:Eu2+ phosphors with high thermal stability for white light emitting diodes. *CrystEngComm*, **2018**, 20, 4383-4394	3.3	28
65	The synthesis, electronic structure and photoluminescence property investigation of temperature sensitive red phosphors RbZnPO 4 :Sm 3+. *Materials Research Bulletin*, **2017**, 92, 99-103	5.1	6
64	PAK4 regulates G6PD activity by p53 degradation involving colon cancer cell growth. *Cell Death and Disease*, **2017**, 8, e2820	9.8	22
63	Electronic structure and photoluminescence property of a novel white emission phosphor Na 3 MgZr(PO 4) 3 :Dy 3+ for warm white light emitting diodes. *Chinese Physics B*, **2017**, 26, 097801	1.2	2
62	Thermal stable red phosphor Sm3+ doped Na3MgZr(PO4)3: the synthesis, site occupation and photoluminescence property investigation. *Journal of Materials Science: Materials in Electronics*, **2017**, 28, 19134-19138	2.1	8
61	Single-hole hollow tetragonal LaVO4:Eu3+ microspheres prepared by Ostwald ripening and their luminescence property. *Journal of Luminescence*, **2017**, 192, 1020-1025	3.8	9
60	The influence on the luminescence properties of Sr1.95Eu0.05MgxSi5N8 with different Sr/Mg ratios. *Journal of Materials Science: Materials in Electronics*, **2017**, 28, 17070-17077	2.1	1
59	The synthesis and photoluminescence properties investigation of a versatile phosphor Sr10[(PO4)5.5(BO4)0.5](BO2): Sb3+/Eu3+/Pr3+/Dy3+. *Journal of Luminescence*, **2017**, 181, 443-447	3.8	7
58	The luminescent property and abnormal thermal quenching behavior of Pr3+ ions in novel red phosphor Ca19Mg2(PO4)14:Pr3+. *Journal of Luminescence*, **2017**, 181, 455-458	3.8	17

57	Rare-Earth-Free High-Efficiency Narrow-Band Red-Emitting Mg3Ga2GeO8:Mn4+ Phosphor Excited by Near-UV Light for White-Light-Emitting Diodes. *Inorganic Chemistry*, **2016**, 55, 154-62	5.1	139
56	Enhanced luminescence and abnormal thermal quenching behaviour investigation of BaHfSi3O9:Eu2+ blue phosphor co-doped with La3+–Sc3+ ion pairs. *RSC Advances*, **2016**, 6, 41755-41760	3.7	14
55	A double substitution induced Ca(Mg0.8, Al0.2)(Si1.8, Al0.2)O6:Eu(2+) phosphor for w-LEDs: synthesis, structure, and luminescence properties. *Dalton Transactions*, **2015**, 44, 13196-203	4.3	15
54	Structure- and temperature-sensitive photoluminescence in a novel phosphate red phosphor RbZnPO4:Eu(3.). *Dalton Transactions*, **2015**, 44, 16099-106	4.3	33
53	Synthesis, structure and luminescence characteristics of a novel red phosphor NaLa9(GeO4)6O2:Eu3+ for light emitting diodes and field emission displays. *RSC Advances*, **2015**, 5, 65710-65718	3.7	33
52	Double substitution induced tunable photoluminescence in the Sr2Si5N8:Eu phosphor lattice. *New Journal of Chemistry*, **2015**, 39, 6958-6964	3.6	8
51	A blue-emitting Sc silicate phosphor for ultraviolet excited light-emitting diodes. *Physical Chemistry Chemical Physics*, **2015**, 17, 27292-9	3.6	24
50	Enhancing the emission intensity and decreasing the full widths at half maximum of Ba3Si6O12N2:Eu(2+) by Mg(2+) doping. *Dalton Transactions*, **2015**, 44, 10321-9	4.3	21
49	Photoluminescent properties of Pr3+ activated Y2WO6 for light emitting diodes. *Optical Materials*, **2015**, 42, 385-389	3.3	16
48	Rare-earth free narrow-band green-emitting KAlSi2O6:Mn2+ phosphor excited by blue light for LED-phosphor material. *RSC Advances*, **2015**, 5, 30001-30004	3.7	16
47	The structure, photoluminescence and influence of temperature on energy transfer in co-doped Ca9La(GeO4)0.75(PO4)6 red-emission phosphors. *Dalton Transactions*, **2015**, 44, 9241-50	4.3	14
46	Optimization and temperature-dependent photoluminescence properties of yellow–orange emitting Sr1.99−x−yCaxMy(Si1−zZy)O4: 0.01Eu2+ (M=Y3+, K+, Z=Al3+, P5+) phosphors for white light-emitting diodes. *Optical Materials*, **2015**, 39, 188-194	3.3	5
45	A novel Ce3+ activated Lu3MgAl3SiO12 garnet phosphor for blue chip light-emitting diodes with excellent performance. *Dalton Transactions*, **2015**, 44, 1775-81	4.3	54
44	Tunable Luminescence and Energy Transfer Investigation in Sr8La2[(PO4)4.5(SiO4)2(BO4)0.5](BO2): Ce3+/Mn2+for White-Light-Emitting Diodes. *ECS Journal of Solid State Science and Technology*, **2015**, 4, R78-R82	2	12
43	Novel blue and green phosphors obtained from K2ZrSi3O9:Eu2+ compounds with different charge compensation ions for LEDs under near-UV excitation. *Journal of Materials Chemistry C*, **2015**, 3, 6676-6685	7.1	38
42	A novel blue light pumped yellow-emitting phosphor RbZnPO4:Dy3+ with satisfactory color tuning and thermal properties for high-power warm white light emitting diodes. *RSC Advances*, **2015**, 5, 106795-106799	3.7	13
41	Recent development in rare earth doped phosphors for white light emitting diodes. *Journal of Rare Earths*, **2015**, 33, 1-12	3.7	133
40	Highly efficient cyan-emitting garnet Ca3Hf2SiAl2O12: xCe3+ phosphor for solid state white lighting. *CrystEngComm*, **2015**, 17, 3235-3242	3.3	36

39	GATA1 induces epithelial-mesenchymal transition in breast cancer cells through PAK5 oncogenic signaling. *Oncotarget*, **2015**, 6, 4345-56	3.3	36
38	Structure, photoluminescent and cathodoluminescent properties of a rare-earth free red emitting Zn3B2O6:Mn2+ phosphor. *Dalton Transactions*, **2014**, 43, 2418-23	4.3	31
37	Luminescent characteristics of Dy3+ doped calcium zirconium phosphate CaZr4(PO4)6 (CZP) phosphor for warm-white LEDs. *Journal of Luminescence*, **2014**, 155, 205-209	3.8	37
36	Novel synthesis method of YAG: Ce3+ micron-sized powders and its luminescence properties. *Materials Chemistry and Physics*, **2014**, 147, 351-355	4.4	1
35	Enhanced photoluminescence and thermal properties of size mismatch in Sr(2.97-x-y)Eu0.03Mg(x)Ba(y)SiO5 for high-power white light-emitting diodes. *Inorganic Chemistry*, **2014**, 53, 2195-9	5.1	69
34	Electronic structure and photo/cathodoluminescence properties investigation of green emission phosphor NaBaScSi2O7:Eu2+ with high thermal stability. *CrystEngComm*, **2014**, 16, 6089-6097	3.3	37
33	A single-component white-emitting CaSr2Al2O6:Ce3+, Li+, Mn2+ phosphor via energy transfer. *Inorganic Chemistry*, **2014**, 53, 7668-75	5.1	58
32	Synthesis and photoluminescence properties of Ca19Mg2(PO4)14:Sm3+ red phosphor for white light emitting diodes. *Materials Research Bulletin*, **2014**, 55, 146-149	5.1	22
31	A novel white emitting phosphor of Dy3+ doped Ca19Mg2(PO4)14 for light-emitting diodes. *Journal of Luminescence*, **2014**, 154, 246-250	3.8	22
30	Photoluminescence of green-emitting Ca_7(PO_4)_2(SiO_4)_2:Eu^2+ phosphor for white light emitting diodes. *Optical Materials Express*, **2014**, 4, 280	2.6	13
29	Multicolor bright Ln^3+ (Ln = Eu, Dy, Sm) activated tungstate phosphor for multifunctional applications. *Optical Materials Express*, **2014**, 4, 142	2.6	25
28	Synthesis and site-selective photoluminescence property of Ca8La2(PO4)6O2: Ce3+. *Materials Research Society Symposia Proceedings*, **2014**, 1592, 1		4
27	Observation, identification and characterization of strong self-reduction process in a orthophosphate phosphor CaZr4(PO4)6:Eu. *Materials Research Bulletin*, **2014**, 50, 405-408	5.1	24
26	A new type of color tunable composite phosphor Y2SiO5:Ce/Y3Al5O12:Ce for field emission displays. *Journal of Materials Chemistry C*, **2013**, 1, 4490	7.1	33
25	Crystal structure and luminescence properties of a cyan emitting Ca10(SiO4)3(SO4)3F2:Eu2+ phosphor. *CrystEngComm*, **2013**, 15, 6389	3.3	47
24	Synthesis, crystal structure and luminescence characteristics of a novel red phosphor Ca19Mg2(PO4)14:Eu3+ for light emitting diodes and field emission displays. *Journal of Materials Chemistry C*, **2013**, 1, 5960	7.1	138
23	Synthesis and photoluminescence properties of a red emitting phosphor NaSr2(NbO3)5:RE3+ (RE=Sm, Pr) for white LEDs. *Journal of Rare Earths*, **2013**, 31, 1049-1052	3.7	12
22	Crystal structure, photoluminescence properties and energy transfer of Ce3+, Mn2+ co-activated Ca8NaGd(PO4)6F2 phosphor. *Materials Research Bulletin*, **2013**, 48, 1065-1070	5.1	35

21	Red-emitting oxonitridosilicate phosphors Sr2SiNzO4□1.5z:Eu2+ for white light-emitting diodes: structure and luminescence properties. *Journal of Materials Chemistry C*, **2013**, 1, 1407	7.1	76
20	Synthesis and luminescent properties of Ca2La8(GeO4)6O2:RE3+ (RE3+=Eu3+, Tb3+, Dy3+, Sm3+, Tm3+) phosphors. *Journal of Luminescence*, **2013**, 144, 64-68	3.8	34
19	Synthesis and Photoluminescence of a New Chlorogermanate Phosphor Ca8Mg(GeO4)4Cl2:Eu2+. *Journal of the American Ceramic Society*, **2013**, 96, 223-227	3.8	7
18	A novel red emitting phosphor of Eu3+ doped TTB-type niobate NaSr2Nb5O15 for white LEDs. *Materials Research Bulletin*, **2013**, 48, 1995-1998	5.1	28
17	Warm white light generation from a single phased phosphor Sr10[(PO4)5.5(BO4)0.5](BO2):Eu2+, Mn2+, Tb3+ for light emitting diodes. *RSC Advances*, **2013**, 3, 9311	3.7	51
16	Synthesis and luminescent properties of a white light phosphor KBa2Nb5O15:Na+, Dy3+ for light-emitting-devices. *Materials Research Bulletin*, **2013**, 48, 3648-3650	5.1	19
15	Tunable white light emitting from mono Ce3+ doped Sr5(PO4)2SiO4 phosphors for light emitting diodes. *Materials Research Bulletin*, **2013**, 48, 1627-1631	5.1	16
14	Color-tunable LaCaAl3O7:Ce3+,Tb3+ phosphors for UV light-emitting diodes. *Materials Research Bulletin*, **2013**, 48, 114-117	5.1	21
13	Warm white light generation from Dy3+ doped NaSr2Nb5O15 for white LEDs. *Materials Letters*, **2013**, 91, 304-306	3.3	42
12	Design, synthesis and characterization of a new apatite phosphor Sr_4La_2Ca_4(PO_4)_6O_2:Ce^3+ with long wavelength Ce^3+ emission. *Optical Materials Express*, **2013**, 3, 229	2.6	25
11	Full-color emission generation from single phased phosphor Sr_10[(PO_4)_55(BO_4)_05](BO_2): Ce^3+, Mn^2+, Tb^3+ for white light emitting diodes. *Optical Materials Express*, **2013**, 3, 1810	2.6	17
10	Photoluminescence properties of Si□N-doped BaAl12O19:Mn2+ phosphors for three-dimensional plasma display panels. *Materials Research Bulletin*, **2012**, 47, 156-159	5.1	7
9	Photoluminescence properties of S-doped BaAl12O19:Mn2+ phosphors for plasma display panels. *Materials Letters*, **2012**, 75, 137-139	3.3	15
8	Ca8Mg(SiO4)4Cl2:Ce3+, Tb3+: A potential single-phased phosphor for white-light-emitting diodes. *Journal of Luminescence*, **2012**, 132, 531-536	3.8	52
7	Highly dispersive {001} facets-exposed nanocrystalline TiO2 on high quality graphene as a high performance photocatalyst. *Journal of Materials Chemistry*, **2012**, 22, 7484		134
6	Structure and Photoluminescence Properties of Ca9Al(PO4)7: Ce3+, Mn2+Phosphors. *ECS Journal of Solid State Science and Technology*, **2012**, 1, R92-R97	2	17
5	Optical properties of Si□N doped BaMgAl10O17:Eu2+, Mn2+ phosphors for plasma display panels. *Journal of Alloys and Compounds*, **2011**, 509, 7100-7104	5.7	11
4	Novel red phosphors Na2CaSiO4:Eu3+ for light-emitting diodes. *Materials Research Bulletin*, **2011**, 46, 1148-1150	5.1	32

3	An Intense Red-Emitting Phosphor YBa3(PO4)3:Eu3+ for Near-Ultraviolet Light Emitting Diodes Application. *Electrochemical and Solid-State Letters*, **2011**, 14, H438		36
2	Ca5La5(SiO4)3(PO4)3O2:Ce3+,Mn2+: A Color-Tunable Phosphor with Efficient Energy Transfer for White-Light-Emitting Diodes. *Journal of the Electrochemical Society*, **2011**, 158, J236	3.9	46
1	Structural design and evolution of a novel Bi3+-doped narrow-band emission blue phosphor with excellent photoluminescence performance for wide color gamut wLED. *Journal of Materials Chemistry C*,	7.1	2