

Zhen Song

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

65
papers

1,379
citations

22
h-index

33
g-index

69
ext. papers

2,061
ext. citations

4.7
avg, IF

5.65
L-index

#	Paper	IF	Citations
65	Efficient near-infrared pyroxene phosphor $\text{LiInGe}_2\text{O}_6:\text{Cr}^{3+}$ for NIR spectroscopy application. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 4577-4584	3.8	19
64	Structural Confinement for Cr^{3+} Activators toward Efficient Near-Infrared Phosphors with Suppressed Concentration Quenching. <i>Chemistry of Materials</i> , 2021 , 33, 3621-3630	9.6	32
63	A broadband near-infrared phosphor $\text{Ca}_3\text{Y}_2\text{Ge}_3\text{O}_{12}:\text{Cr}^{3+}$ with garnet structure. <i>Journal of Alloys and Compounds</i> , 2021 , 863, 158699	5.7	20
62	Crystal-field splitting of Ce^{3+} in narrow-band phosphor $\text{SrLiAl}_3\text{N}_4$. <i>Journal of Rare Earths</i> , 2021 , 39, 386-389	3.9	3
61	Orange super-long persistent luminescent materials: $(\text{Sr}_{1-x}\text{Ba}_x)_3\text{SiO}_5:\text{Eu}^{2+}, \text{Nb}^{5+}$. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 333-340	7.8	11
60	Infrared-photostimulable and long-persistent ultraviolet-emitting phosphor $\text{LiLuGeO}_4:\text{Bi}^{3+}, \text{Yb}^{3+}$ for biophotonic applications. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 1468-1476	7.8	12
59	Color-Tunable Persistent Luminescence of $\text{CaM}(\text{PO})_2:\text{Eu}$ ($M = \text{Li}, \text{Na}, \text{and K}$) with a $\text{Ca}(\text{PO})_2$ -Type Structure. <i>Inorganic Chemistry</i> , 2021 , 60, 3952-3960	5.1	15
58	Site engineering strategy toward enhanced luminescence thermostability of a Cr^{3+} -doped broadband NIR phosphor and its application. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 3841-3849	7.8	24
57	Tuning luminescence from NIR-I to NIR-II in Cr^{3+} -doped olivine phosphors for nondestructive analysis. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 5469-5477	7.1	30
56	UV-Red Light-Chargeable Near-Infrared-Persistent Phosphors and Their Applications.. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	7
55	Understanding the abnormal lack of spectral shift with cation substitution in highly efficient phosphor $\text{LaSiN}:\text{Ce}$. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 14162-14168	3.6	3
54	Broadband deep-red-to-near-infrared emission from Mn^{2+} in strong crystal-field of nitride MgAlSiN_3 . <i>Journal of the American Ceramic Society</i> , 2020 , 103, 6793-6800	3.8	12
53	Enhanced persistent luminescence via Si^{4+} co-doping in $\text{Y}_3\text{Al}_2\text{Ga}_3\text{O}_{12}:\text{Ce}^{3+}, \text{Yb}^{3+}, \text{B}^{3+}$. <i>Journal of Luminescence</i> , 2020 , 222, 117190	3.8	1
52	Red persistent and photostimulable phosphor $\text{SrLiAl}_3\text{N}_4:\text{Eu}^{2+}$. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 4956-4964	7.1	19
51	Tolerance Factor and Phase Stability of the Normal Spinel Structure. <i>Crystal Growth and Design</i> , 2020 , 20, 2014-2018	3.5	7
50	Tolerance factor, phase stability and order-disorder of the pyrochlore structure. <i>Inorganic Chemistry Frontiers</i> , 2020 , 7, 1583-1590	6.8	15
49	Highly efficient near-infrared phosphor $\text{LaMgGa}_{11}\text{O}_{19}:\text{Cr}^{3+}$. <i>Inorganic Chemistry Frontiers</i> , 2020 , 7, 146761-146773	6.3	63

48	Structural Indicator to Characterize the Crystal-Field Splitting of Ce ³⁺ in Garnets. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 870-873	3.8	6
47	Sunlight-activated yellow long persistent luminescence from Nb-doped Sr ₃ SiO ₅ :Eu ²⁺ for warm-color mark applications. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 1143-1150	7.1	32
46	Yellow persistent luminescence and electronic structure of Ca-Bialon: Eu ²⁺ . <i>Journal of Alloys and Compounds</i> , 2020 , 821, 153482	5.7	8
45	Effect of nitrogen substitution on luminescence tuning in garnets. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 9513-9517	3.6	
44	Green persistent luminescence and the electronic structure of Bialon:Eu ²⁺ . <i>Journal of Materials Chemistry C</i> , 2019 , 7, 12544-12551	7.1	21
43	Effect of polyhedron deformation on the 5d energy level of Ce in lanthanide aluminum perovskites. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 2372-2377	3.6	7
42	Structure and photoluminescence properties of Ca _{0.99} Si _x AlSi ₃ :0.01Ce ³⁺ solid solutions. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 4648-4658	3.8	13
41	Enhanced Yellow Persistent Luminescence in SrSiO:Eu through Ge Incorporation. <i>Inorganic Chemistry</i> , 2019 , 58, 8694-8701	5.1	18
40	Relationship of Stokes shift with composition and structure in Ce ³⁺ /Eu ²⁺ -doped inorganic compounds. <i>Journal of Luminescence</i> , 2019 , 212, 250-263	3.8	27
39	Effects of Neighboring Polyhedron Competition on the 5d Level of Ce ³⁺ in Lanthanide Garnets. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 8656-8662	3.8	12
38	Effects of full-range Eu concentration on Sr _{2-2x} Eu _{2x} Si ₅ N ₈ phosphors: A deep-red emission and luminescent thermal quenching. <i>Journal of Alloys and Compounds</i> , 2019 , 770, 1069-1077	5.7	30
37	Luminescent perovskites: recent advances in theory and experiments. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 2969-3011	6.8	109
36	Luminescent thermal stability and electronic structure of narrow-band green-emitting Sr-Sialon:Eu ²⁺ phosphors for LED/LCD backlights. <i>Journal of Alloys and Compounds</i> , 2019 , 805, 1246-1253	5.7	10
35	Tolerance factor and phase stability of the garnet structure. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2019 , 75, 1353-1358	0.8	28
34	Double perovskite Cs ₂ AgInCl ₆ :Cr ³⁺ : broadband and near-infrared luminescent materials. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 3621-3628	6.8	78
33	The red persistent luminescence of (Sr,Ca)AlSi ₃ :Eu ²⁺ and mechanism different to SrAl ₂ O ₄ :Eu ²⁺ ,Dy ³⁺ . <i>Journal of Luminescence</i> , 2019 , 208, 313-321	3.8	35
32	Enhanced Persistence Properties through Modifying the Trap Depth and Density in YAlGaO:Ce,Yb Phosphor by Co-doping B. <i>Inorganic Chemistry</i> , 2019 , 58, 1684-1689	5.1	28
31	The Inductive Effect in Nitridosilicates and Oxysilicates and Its Effects on 5d Energy Levels of Ce. <i>Inorganic Chemistry</i> , 2018 , 57, 2320-2331	5.1	7

30	Insight into the Relationship between Crystal Structure and Crystal-Field Splitting of Ce ³⁺ Doped Garnet Compounds. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 3567-3574	3.8	30
29	Control of Luminescence in Eu-Doped Orthosilicate-Orthophosphate Phosphors by Chainlike Polyhedra and Electronic Structures. <i>Inorganic Chemistry</i> , 2018 , 57, 609-616	5.1	21
28	Consequence of Optimal Bonding on Disordered Structure and Improved Luminescence Properties in T-Phase (Ba,Ca)SiO:Eu Phosphor. <i>Inorganic Chemistry</i> , 2018 , 57, 4146-4154	5.1	33
27	5d-level centroid shift and coordination number of Ce ³⁺ in nitride compounds. <i>Journal of Luminescence</i> , 2018 , 200, 35-42	3.8	33
26	Synthesis, structure and luminescence of SrLiAl ₃ N ₄ :Ce ³⁺ phosphor. <i>Journal of Luminescence</i> , 2018 , 199, 271-277	3.8	17
25	Crystal field splitting of 4f _n 5d-levels of Ce ³⁺ and Eu ²⁺ in nitride compounds. <i>Journal of Luminescence</i> , 2018 , 194, 461-466	3.8	58
24	Enhanced performance of Sr ₂ Si ₅ N ₈ : Eu ²⁺ red afterglow phosphor by co-doping with boron and oxygen. <i>Journal of Luminescence</i> , 2018 , 204, 36-40	3.8	19
23	Moisture-induced degradation of the narrow-band red-emitting SrLiAl ₃ N ₄ :Eu ²⁺ phosphor. <i>Journal of Rare Earths</i> , 2018 , 36, 341-345	3.7	12
22	Charge Transfer, Local Structure, and the Inductive Effect in Rare-Earth-Doped Inorganic Solids. <i>Inorganic Chemistry</i> , 2018 , 57, 12376-12383	5.1	14
21	Improvement of red-emitting afterglow properties via tuning electronic structure in perovskite-type (Ca _{1-x} Na _x) [Ti _{1-x} Nb _x] O ₃ : Pr ³⁺ compounds. <i>Journal of Alloys and Compounds</i> , 2017 , 729, 663-670	5.7	13
20	After-glow, luminescent thermal quenching, and energy band structure of Ce-doped yttrium aluminum-gallium garnets. <i>Journal of Luminescence</i> , 2017 , 192, 1278-1287	3.8	32
19	Luminescence Tuning, Thermal Quenching, and Electronic Structure of Narrow-Band Red-Emitting Nitride Phosphors. <i>Inorganic Chemistry</i> , 2017 , 56, 11837-11844	5.1	46
18	Relationship between thermal quenching of Eu ²⁺ luminescence and cation ordering in (Ba _{1-x} Br _x) ₂ SiO ₄ :Eu phosphors. <i>Journal of Luminescence</i> , 2016 , 180, 163-168	3.8	29
17	Analysis on stability and consistency of intensity measurement of White Light Emitting Diode phosphors. <i>Optik</i> , 2016 , 127, 2798-2801	2.5	4
16	The synthesis of narrow-band red-emitting SrLiAl ₃ N ₄ :Eu ²⁺ phosphor and improvement of its luminescence properties. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 7332-7338	7.1	51
15	Role of flux on synthesis of poly single crystals of Ce ³⁺ doped yttrium aluminum garnet. <i>Crystal Research and Technology</i> , 2016 , 51, 239-242	1.3	3
14	Correlation between the energy level structure of cerium-doped yttrium aluminum garnet and luminescent behavior at varying temperatures. <i>Materials Research Express</i> , 2016 , 3, 055501	1.7	8
13	Complementary method to locate atomic coordinates by combined searching method of structure-sensitive indexes based on bond valence method. <i>Chinese Physics B</i> , 2015 , 24, 106101	1.2	

12	Peak wavelength selection guides of chip and phosphors for phosphor-converted white light-emitting diodes. <i>Rare Metals</i> , 2014 , 33, 80-85	5.5	6
11	Solid solubility and photoluminescence of $Y_{3-x}Al_{5-x}O_{12}:Ce_3$ prepared by using $(Y_{1-x}Ce_x)_2O_3$. <i>Chinese Physics B</i> , 2014 , 23, 048106	1.2	6
10	Thermochromic material $Sr_2SiO_4:Eu^{2+}$ based on displacive transformation. <i>Journal of Luminescence</i> , 2014 , 152, 199-202	3.8	14
9	Synthesis, structure and tunable red emissions of $Ca(Al/Si)_2N_2(N_1-xO_x):Eu^{2+}$ prepared by alloy-nitridation method. <i>Journal of Luminescence</i> , 2013 , 137, 173-179	3.8	31
8	Synthesis of YAG phosphor particles with excellent morphology by solid state reaction. <i>Journal of Crystal Growth</i> , 2013 , 365, 24-28	1.6	53
7	Photoluminescence properties of Ce^{3+} and Mn^{2+} -activated $Ba_9Sc_2Si_6O_{24}$ phosphor for white light emitting diodes. <i>Chinese Physics B</i> , 2013 , 22, 077801	1.2	9
6	Stability of divalent/trivalent oxidation state of europium in some Sr-based inorganic compounds. <i>Journal of Luminescence</i> , 2012 , 132, 1768-1773	3.8	20
5	Synthesis and luminescence properties of europium activated $Ca_3Al_2O_6-Sr_3Al_2O_6$ system. <i>Journal of Rare Earths</i> , 2012 , 30, 632-636	3.7	12
4	A red oxide phosphor, $Sr_2ScAlO_5:Eu^{2+}$ with perovskite-type structure, for white light-emitting diodes. <i>Chinese Physics B</i> , 2010 , 19, 127808	1.2	17
3	Novel Cr^{3+} -activated far-red emitting phosphors with $Ca_3(PO_4)_2$ -type structure for indoor plant cultivation. <i>International Journal of Minerals, Metallurgy and Materials</i> , 1	3.1	1
2	Structural Confinement toward Controlling Energy Transfer Path for Enhancing Near-Infrared Luminescence. <i>Chemistry of Materials</i> ,	9.6	7
1	Efficient broadband near-infrared phosphor $Sr_2ScSbO_6:Cr^{3+}$ for solar-like lighting. <i>Science China Materials</i> , 1	7.1	16