

Ge-Mei Cai

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.

84
papers

1,118
citations

16
h-index

30
g-index

87
ext. papers

1,407
ext. citations

4.4
avg. IF

4.79
L-index

#	Paper	IF	Citations
84	Review of Heteroleptic Tetrahedra as Birefringent or Nonlinear Optical Motifs. <i>Crystal Growth and Design</i> , 2022 , 22, 1500-1514	3.5	0
83	Phase equilibria and transformation in the Ti-Al-Ta system. <i>Journal of Materials Science</i> , 2022 , 57, 2163-2179	4.9	0
82	Excellent enhancement of thermal stability and quantum efficiency for Na ₂ BaCa(PO ₄) ₂ :Eu ²⁺ phosphor based on Sr doping into Ca. <i>Journal of Alloys and Compounds</i> , 2022 , 165092	5.7	0
81	The strategy of design and preparation for outstanding precipitation strengthened HEAs based on diffusion couple. <i>Materials and Design</i> , 2022 , 217, 110667	8.1	0
80	Enhancement of Eu ²⁺ photoluminescence behavior in NaBaB ₉ O ₁₅ based on the K ⁺ doping. <i>Journal of Luminescence</i> , 2021 , 118613	3.8	1
79	Dependence of Luminous Performance on Eu Site Occupation in SrIn(PO) ₄ : The Effect of the Local Environment. <i>Inorganic Chemistry</i> , 2021 , 60, 17219-17229	5.1	3
78	Phase relation and transition in the Ti-Al-Mn system. <i>Journal of Alloys and Compounds</i> , 2021 , 861, 158578	5.7	2
77	Photoluminescence and energy transfer of efficient and thermally stable white-emitting Ca ₉ La(PO ₄) ₇ :Ce ³⁺ , Tb ³⁺ , Mn ²⁺ phosphors. <i>Ceramics International</i> , 2021 , 47, 12056-12065	5.1	4
76	Experimental Investigation of Phase Equilibria in the Cu-Fe-Ti System. <i>Journal of Phase Equilibria and Diffusion</i> , 2021 , 42, 389-402	1	
75	Tunable emission, energy transfer and thermal stability of Ce ³⁺ , Tb ³⁺ co-doped Na ₂ BaCa(PO ₄) ₂ phosphors. <i>Journal of Rare Earths</i> , 2021 ,	3.7	1
74	Daylight-White-Emitting and Abnormal Thermal Antiquenching Phosphors Based on a Layered Host SrIn(PO) ₄ . <i>Inorganic Chemistry</i> , 2021 , 60, 2279-2293	5.1	8
73	Experimental investigation and thermodynamic calculation of Ti-Hf-Mn system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2020 , 70, 101776	1.9	2
72	An electromagnetic separation system for the enrichment of Ar. <i>Review of Scientific Instruments</i> , 2020 , 91, 033309	1.7	1
71	Ion beam production with an antenna type 2.45 GHz electron cyclotron resonance ion source. <i>Review of Scientific Instruments</i> , 2020 , 91, 023301	1.7	
70	Efficient and stable SrEuBO red phosphor benefiting from low symmetry and distorted local environment. <i>Dalton Transactions</i> , 2020 , 49, 3260-3271	4.3	22
69	The Non-Concentration-Quenching Phosphor CaEuBO for WLED Application. <i>Inorganic Chemistry</i> , 2020 , 59, 3894-3904	5.1	51
68	Synergistic Regulation of Phonon and Electronic Properties to Improve the Thermoelectric Performance of Chalcogenide CuIn _{1-x} GaxTe ₂ :yInTe (x = 0.3) with In Situ Formed Nanoscale Phase InTe. <i>Advanced Electronic Materials</i> , 2020 , 6, 1901141	6.4	3

67	Large optical polarizability causing positive effects on the birefringence of planar-triangular BO groups in ternary borates. <i>Dalton Transactions</i> , 2020 , 49, 3284-3292	4.3	11
66	Structure, tunable luminescence and thermal stability in Tb ³⁺ and Eu ³⁺ co-doped novel KBaIn ₂ (PO ₄) ₃ phosphors. <i>Journal of Luminescence</i> , 2020 , 221, 117115	3.8	12
65	Synthesis of Eu-doped hydroxyapatite whiskers and fabrication of phosphor layer via electrophoretic deposition process. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 6780-6792	3.8	4
64	New Prelithiated V ₂ O ₅ Superstructure for Lithium-Ion Batteries with Long Cycle Life and High Power. <i>ACS Energy Letters</i> , 2020 , 5, 31-38	20.1	78
63	Tuning of Emission by Eu Concentration in a Pyrophosphate: the Effect of Local Symmetry. <i>Inorganic Chemistry</i> , 2020 , 59, 2241-2247	5.1	42
62	Multicolor emission leading by energy transfer between Dy ³⁺ and Eu ³⁺ in wolframite InNbTiO ₆ . <i>Journal of Luminescence</i> , 2020 , 227, 117578	3.8	5
61	Structure and tunable luminescence in Sm ³⁺ /Er ³⁺ doped host-sensitized LaNbO ₄ phosphor by energy transfer. <i>Ceramics International</i> , 2020 , 46, 28373-28381	5.1	1
60	Measurement of Diffusion Coefficients in the bcc Phase of the Ti-Sn and Zr-Sn Binary Systems. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019 , 50, 1409-1420 ²⁻³	2.3	10
59	Red-green-blue-tunable emission from Eu ³⁺ and Tb ³⁺ codoped pyrophosphate phosphors. <i>Journal of Luminescence</i> , 2019 , 215, 116732	3.8	6
58	Experimental investigation of phase relationship in TiFe-Hf ternary system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2019 , 67, 101669	1.9	1
57	Structure, tunable luminescence and energy transfer in Tb and Eu codoped BaInBO phosphors.. <i>RSC Advances</i> , 2019 , 9, 1029-1035	3.7	6
56	Enhanced thermoelectric properties in N-type MgSi SnSb synthesized by alkaline earth metal reduction.. <i>RSC Advances</i> , 2019 , 9, 4008-4014	3.7	4
55	Realizing high thermoelectric performance in Cu ₂ Te alloyed Cu _{1.15} In _{2.29} Te ₄ . <i>Journal of Materials Chemistry A</i> , 2019 , 7, 2360-2367	13	12
54	Structure, luminescence and energy transfer in Ce ³⁺ and Mn ²⁺ codoped FALON phosphors. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 733-742	7.1	42
53	Measurement of phase equilibria in Ti-Co-Ge ternary system. <i>Journal of Alloys and Compounds</i> , 2019 , 793, 653-661	5.7	2
52	Structure and luminescence properties of multicolor phosphors with excellent thermal stability based on a new phosphate Ba ₃ In ₄ (PO ₄) ₆ . <i>Journal of Alloys and Compounds</i> , 2019 , 797, 775-785	5.7	20
51	Experimental investigation of phase equilibria in the Tb-Si-Cr system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2019 , 65, 212-224	1.9	2
50	Structure and luminescent properties of new Dy ³⁺ /Eu ³⁺ /Sm ³⁺ -activated InNbTiO ₆ phosphors for white UV-LEDs. <i>Optical Materials</i> , 2019 , 98, 109403	3.3	14

49	Thermodynamic investigation of the Mg-Ni-Zn system by experiments and calculations and its application. <i>Journal of Alloys and Compounds</i> , 2019 , 784, 769-787	5.7	11
48	Experimental Investigation of Phase Equilibria in Zr-Ni-Pt System. <i>Journal of Phase Equilibria and Diffusion</i> , 2018 , 39, 301-314	1	
47	Experimental Investigation of Phase Equilibria in Ti ₂ ZrO ₆ System. <i>Journal of Phase Equilibria and Diffusion</i> , 2018 , 39, 226-236	1	
46	Modification of YNbO ₄ and YNbTiO ₆ photoluminescence by nitrogen doping. <i>AIP Advances</i> , 2018 , 8, 045107	1.5	3
45	Synthesis and photoluminescence of host-sensitized MgNb ₂ O ₆ based phosphors. <i>Journal of Luminescence</i> , 2018 , 198, 10-18	3.8	8
44	Experimental investigation on phase equilibria of Cu-Ti-Hf system and performance of Cu(Ti, Hf) ₂ phase. <i>Journal of Materials Science</i> , 2018 , 53, 7809-7821	4.3	6
43	Experimental investigation and thermodynamic calculation of Ti-Co-Hf system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2018 , 62, 128-140	1.9	6
42	Reduction of Ce(IV) to Ce(III) induced by structural characteristics and performance characterization of pyrophosphate MgIn ₂ P ₄ O ₁₄ -based phosphors. <i>Journal of Luminescence</i> , 2018 , 203, 590-598	3.8	6
41	Insight into crystal structure and Eu/Tb doped luminescence property of a new phosphate. <i>Journal of Alloys and Compounds</i> , 2018 , 762, 444-455	5.7	15
40	Improvement of thermoelectric performance of copper-deficient compounds Cu _{1-x} InTe (x = 0-0.15) due to a degenerate impurity band and ultralow lattice thermal conductivity.. <i>RSC Advances</i> , 2018 , 8, 27163-27170	3.7	4
39	Increased effective mass and carrier concentration responsible for the improved thermoelectric performance of the nominal compound CuGaTe with Sb substitution for Cu.. <i>RSC Advances</i> , 2018 , 8, 21637-21643	3.7	4
38	Enhanced scintillation of Ba ₃ In(B ₃ O ₆) ₃ based on nitrogen doping. <i>Journal of Solid State Chemistry</i> , 2018 , 258, 351-357	3.3	7
37	Measurement of interdiffusion and impurity diffusion coefficients in the bcc phase of the Ti ₂ X (X = Cr, Hf, Mo, Nb, V, Zr) binary systems using diffusion multiples. <i>Journal of Materials Science</i> , 2017 , 52, 3255-3268	4.3	32
36	A peculiar layered 12-fold cationic coordination compound LiInTi ₂ O ₆ : phase relations, crystal structure and color-tunable photoluminescence. <i>RSC Advances</i> , 2017 , 7, 22156-22169	3.7	11
35	Investigation on Eu/Tb activated photoluminescent properties of Li ₃ Sc(BO ₃) ₂ based phosphors. <i>Journal of Alloys and Compounds</i> , 2017 , 719, 171-181	5.7	15
34	Investigation of phase equilibria in the Ti-Co-Zr ternary system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2017 , 56, 260-269	1.9	8
33	Single-phased and color tunable LiSrBO ₃ :Dy ³⁺ , Tm ³⁺ , Eu ³⁺ phosphors for white-light-emitting application. <i>Journal of Luminescence</i> , 2017 , 187, 211-220	3.8	38
32	Experimental investigation of phase equilibria in the Ti-Al-Mo ternary system. <i>Journal of Materials Science</i> , 2017 , 52, 2270-2284	4.3	9

31	Layered Crystal Structure, Color-Tunable Photoluminescence, and Excellent Thermal Stability of MgInPO Phosphate-Based Phosphors. <i>Inorganic Chemistry</i> , 2017 , 56, 12902-12913	5.1	48
30	Experimental Investigation of Phase Equilibria in the Cu-Co-Zr System. <i>Journal of Phase Equilibria and Diffusion</i> , 2017 , 38, 855-864	1	2
29	Investigation of the phase equilibria in Ti-Ni-Hf system using diffusion triples and equilibrated alloys. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2017 , 58, 160-168	1.9	12
28	Experimental Study on Phase Equilibria in Ti-Cu-Pt System. <i>Journal of Phase Equilibria and Diffusion</i> , 2017 , 38, 466-476	1	2
27	Significant improvement in the thermoelectric performance of Sb-incorporated chalcopyrite compounds $\text{Cu}_{18}\text{Ga}_{25}\text{Sb}_x\text{Te}_{50-x}$ ($x = 0\text{--}12.5$) through the coordination of energy band and crystal structures. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 24199-24207	13	8
26	Phase relation, structure, and properties of borate $\text{MgYB}_5\text{O}_{10}$ in $\text{MgO}\text{--}\text{ZrO}_2\text{--}\text{B}_2\text{O}_3$ system. <i>Powder Diffraction</i> , 2017 , 32, 97-106	1.8	3
25	Tunable luminescence properties and energy transfer of Tm^{3+} , Dy^{3+} , and Eu^{3+} co-activated InNbO_4 phosphors for warm-white-lighting. <i>Ceramics International</i> , 2016 , 42, 15994-16006	5.1	26
24	Three-dimensional FeSe_2 microflowers assembled by nanosheets: Synthesis, optical properties, and catalytic activity for the hydrogen evolution reaction. <i>Electronic Materials Letters</i> , 2016 , 12, 237-242	2.9	13
23	Synthesis, crystal structure, and thermal stability of new borates $\text{Na}_3\text{REB}_2\text{O}_6$ (RE = Pr, Sm, Eu). <i>Powder Diffraction</i> , 2016 , 31, 110-117	1.8	5
22	Room temperature luminescence and ferromagnetism of $\text{AlN}:\text{Fe}$. <i>AIP Advances</i> , 2016 , 6, 065025	1.5	6
21	Crystal structure, luminescence properties and energy transfer of $\text{Eu}^{3+}/\text{Dy}^{3+}$ doped GdNbTiO_6 broad band excited phosphors. <i>RSC Advances</i> , 2016 , 6, 50797-50807	3.7	22
20	Synthesis of $\text{Ni}_{1-x}\text{Zn}_x\text{O}$ hollow structures by a facile method. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015 , 66, 257-262	3	
19	Experimental investigation of phase equilibria in $\text{Cu}\text{--}\text{Ni}\text{--}\text{Ti}$ system. <i>Journal of Alloys and Compounds</i> , 2015 , 651, 590-597	5.7	2
18	Luminescent properties and performance tune of novel red-emitting phosphor $\text{CaInBO}_4:\text{Eu}^{3+}$. <i>Journal of Alloys and Compounds</i> , 2015 , 650, 494-501	5.7	8
17	Phase relations, crystal structure, and phase transformation of $\text{In}_{1-x}\text{Nb}_{1-x}\text{Ti}_{2x}\text{O}_4$ ($0 \leq x \leq 1$). <i>Journal of Alloys and Compounds</i> , 2015 , 651, 97-105	5.7	4
16	Experimental investigation of phase equilibria in the $\text{Cu}\text{--}\text{Ni}\text{--}\text{Zr}$ system. <i>Journal of Materials Science</i> , 2015 , 50, 7238-7247	4.3	2
15	Controlling spin-dependent tunneling by bandgap tuning in epitaxial rocksalt MgZnO films. <i>Scientific Reports</i> , 2014 , 4, 7277	4.9	22
14	Synthesis and relative optical properties of $\text{Eu}^{3+}/\text{Tb}^{3+}$ -activated $\text{Li}_3\text{InB}_2\text{O}_6$. <i>Journal of Alloys and Compounds</i> , 2013 , 562, 182-186	5.7	11

13	Synthesis of Mo ₂ N nanolayer coated MoO ₂ hollow nanostructures as high-performance anode materials for lithium-ion batteries. <i>Energy and Environmental Science</i> , 2013 , 6, 2691	35.4	215
12	Synthesis and characterization of powder four borate Sr ₃ Sm ₂ (BO ₃) ₄ . <i>Powder Diffraction</i> , 2013 , 28, 262-268		1
11	Subsolidus phase relations in CaO-Ti ₂ O ₃ -B ₂ O ₃ system and crystal structure of CaInBO ₄ . <i>Journal of Alloys and Compounds</i> , 2012 , 516, 107-112	5.7	10
10	Crystal structure and photoluminescence of Tb ³⁺ -activated Ba ₃ InB ₃ O ₉ . <i>Materials Chemistry and Physics</i> , 2011 , 129, 761-768	4.4	11
9	Stable Oxoborate with Edge-Sharing BO ₄ Tetrahedra Synthesized under Ambient Pressure. <i>Angewandte Chemie</i> , 2010 , 122, 5087-5090	3.6	31
8	New promising phosphors Ba ₃ InB ₉ O ₁₈ activated by Eu ³⁺ /Tb ³⁺ . <i>Journal of Luminescence</i> , 2010 , 130, 910-916	3.8	31
7	Crystal structure and Eu ³⁺ /Tb ³⁺ doped luminescent properties of a new borate Ba ₃ BiB ₉ O ₁₈ . <i>Materials Research Bulletin</i> , 2009 , 44, 2211-2216	5.1	15
6	Crystal structure determination of new compounds Li ₆ MB ₃ O ₉ (M=Nd,Sm,Eu,Tm,Er). <i>Powder Diffraction</i> , 2008 , 23, 3-9	1.8	2
5	Crystal structure and thermal properties of compound K ₂ Zn ₃ (P ₂ O ₇) ₂ . <i>Powder Diffraction</i> , 2008 , 23, 317-322		1
4	A new promising scintillator Ba ₃ InB ₉ O ₁₈ . <i>Journal of Solid State Chemistry</i> , 2008 , 181, 646-651	3.3	26
3	Regular hexagonal MoS ₂ microflakes grown from MoO ₃ precursor. <i>Applied Physics A: Materials Science and Processing</i> , 2007 , 89, 783-788	2.6	13
2	Crystal structure and luminescence properties of a novel promising phosphor Ba ₃ ScB ₉ O ₁₈ . <i>Powder Diffraction</i> , 2007 , 22, 328-333	1.8	11
1	Structure of a new compound KBaB ₅ O ₉ and photoluminescence characteristics of KBaB ₅ O ₉ :Eu ³⁺ . <i>Powder Diffraction</i> , 2007 , 22, 292-294	1.8	3