

Ge-Mei Cai

List of Publications by Year in descending order

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86
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361296

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#	ARTICLE	IF	CITATIONS
1	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.	15.6	246
2	The Non-Concentration-Quenching Phosphor Ca ₃ Eu ₂ B ₄ O ₁₂ for WLED Application. <i>Inorganic Chemistry</i> , 2020, 59, 3894-3904.	1.9	118
3	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.	8.8	113
4	Tuning of Emission by Eu ³⁺ Concentration in a Pyrophosphate: the Effect of Local Symmetry. <i>Inorganic Chemistry</i> , 2020, 59, 2241-2247.	1.9	78
5	Structure, luminescence and energy transfer in Ce ³⁺ and Mn ²⁺ codoped β -AlON phosphors. <i>Journal of Materials Chemistry C</i> , 2019, 7, 733-742.	2.7	66
6	Layered Crystal Structure, Color-Tunable Photoluminescence, and Excellent Thermal Stability of MgIn ₂ P ₄ O ₁₄ Phosphate-Based Phosphors. <i>Inorganic Chemistry</i> , 2017, 56, 12902-12913.	1.9	61
7	Measurement of interdiffusion and impurity diffusion coefficients in the bcc phase of the Ti $\hat{=}$ X (X $\hat{=}$ Cr). <i>Tj ETQq1</i> 1 0.784314 rgBT 3255-3268.	1.7	50
8	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.	1.5	47
9	Efficient and stable Sr ₃ Eu ₂ B ₄ O ₁₂ red phosphor benefiting from low symmetry and distorted local environment. <i>Dalton Transactions</i> , 2020, 49, 3260-3271.	1.6	36
10	New promising phosphors Ba ₃ InB ₉ O ₁₈ activated by Eu ³⁺ /Tb ³⁺ . <i>Journal of Luminescence</i> , 2010, 130, 910-916.	1.5	31
11	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.	2.3	30
12	Daylight-White-Emitting and Abnormal Thermal Antiquenching Phosphors Based on a Layered Host SrIn ₂ (P ₂ O ₇) ₂ . <i>Inorganic Chemistry</i> , 2021, 60, 2279-2293.	1.9	30
13	A new promising scintillator Ba ₃ InB ₉ O ₁₈ . <i>Journal of Solid State Chemistry</i> , 2008, 181, 646-651.	1.4	29
14	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.	2.8	29
15	Crystal structure, luminescence properties and energy transfer of Eu ³⁺ /Dy ³⁺ doped GdNbTiO ₆ broad band excited phosphors. <i>RSC Advances</i> , 2016, 6, 50797-50807.	1.7	28
16	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.	2.8	26
17	Controlling spin-dependent tunneling by bandgap tuning in epitaxial rocksalt MgZnO films. <i>Scientific Reports</i> , 2014, 4, 7277.	1.6	24
18	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.	1.5	23

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19	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> , 2022, 40, 878-887.	2.5	23
20	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.	2.8	20
21	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.	1.7	20
22	Experimental investigation of phase equilibria in the Ti-Al-Mo ternary system. <i>Journal of Materials Science</i> , 2017, 52, 2270-2284.	1.7	18
23	Dependence of Luminous Performance on Eu ³⁺ Site Occupation in SrIn ₂ (P ₂ O ₇) ₂ : The Effect of the Local Environment. <i>Inorganic Chemistry</i> , 2021, 60, 17219-17229.	1.9	18
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.	1.0	17
25	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.	0.7	16
26	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.	1.1	16
27	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.	5.2	16
28	Regular hexagonal MoS ₂ microflakes grown from MoO ₃ precursor. <i>Applied Physics A: Materials Science and Processing</i> , 2007, 89, 783-788.	1.1	15
29	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.	2.7	15
30	Red-green-blue-tunable emission from Eu ³⁺ and Tb ³⁺ codoped pyrophosphate phosphors. <i>Journal of Luminescence</i> , 2019, 215, 116732.	1.5	15
31	Large optical polarizability causing positive effects on the birefringence of planar-triangular BO ₃ groups in ternary borates. <i>Dalton Transactions</i> , 2020, 49, 3284-3292.	1.6	15
32	Synthesis and relative optical properties of Eu ³⁺ /Tb ³⁺ -activated Li ₃ InB ₂ O ₆ . <i>Journal of Alloys and Compounds</i> , 2013, 562, 182-186.	2.8	14
33	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.	1.7	13
34	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.	2.8	13
35	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.	2.3	13
36	Crystal structure and luminescence properties of a novel promising phosphor Ba ₃ ScB ₉ O ₁₈ . <i>Powder Diffraction</i> , 2007, 22, 328-333.	0.4	12

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37	Crystal structure and photoluminescence of Tb ³⁺ -activated Ba ₃ InB ₃ O ₉ . Materials Chemistry and Physics, 2011, 129, 761-768.	2.0	12
38	Subsolidus phase relations in CaO–In ₂ O ₃ –B ₂ O ₃ system and crystal structure of CaInBO ₄ . Journal of Alloys and Compounds, 2012, 516, 107-112.	2.8	11
39	Luminescent properties and performance tune of novel red-emitting phosphor CaInBO ₄ : Eu ³⁺ . Journal of Alloys and Compounds, 2015, 650, 494-501.	2.8	11
40	Investigation of phase equilibria in the Ti-Co-Zr ternary system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2017, 56, 260-269.	0.7	11
41	Synthesis and photoluminescence of host-sensitized MgNb ₂ O ₆ based phosphors. Journal of Luminescence, 2018, 198, 10-18.	1.5	11
42	Multicolor emission leading by energy transfer between Dy ³⁺ and Eu ³⁺ in wolframite InNbTiO ₆ . Journal of Luminescence, 2020, 227, 117578.	1.5	11
43	Excellent enhancement of thermal stability and quantum efficiency for Na ₂ BaCa(PO ₄) ₂ :Eu ²⁺ phosphor based on Sr doping into Ca. Journal of Alloys and Compounds, 2022, 911, 165092.	2.8	11
44	Synthesis, crystal structure, and thermal stability of new borates Na ₃ REB ₂ O ₆ (RE = Pr, Sm, Eu). Powder Diffraction, 2016, 31, 110-117.	0.4	10
45	Significant improvement in the thermoelectric performance of Sb-incorporated chalcopyrite compounds Cu ₁₈ Ga ₂₅ Sb _x Te _{50-x} (x = 0–3.125) through the coordination of energy band and crystal structures. Journal of Materials Chemistry A, 2017, 5, 24199-24207.	5.2	10
46	Structure, tunable luminescence and energy transfer in Tb ³⁺ and Eu ³⁺ codoped Ba ₃ InB ₉ O ₁₈ phosphors. RSC Advances, 2019, 9, 1029-1035.	1.7	10
47	Structure and tunable luminescence in Sm ³⁺ /Er ³⁺ doped host-sensitized LaNbO ₄ phosphor by energy transfer. Ceramics International, 2020, 46, 28373-28381.	2.3	10
48	Enhanced scintillation of Ba ₃ In(B ₃ O ₆) ₃ based on nitrogen doping. Journal of Solid State Chemistry, 2018, 258, 351-357.	1.4	9
49	Reduction of Ce(IV) to Ce(III) induced by structural characteristics and performance characterization of pyrophosphate MgIn ₂ P ₄ O ₁₄ -based phosphors. Journal of Luminescence, 2018, 203, 590-598.	1.5	9
50	Review of Heteroleptic Tetrahedra as Birefringent or Nonlinear Optical Motifs. Crystal Growth and Design, 2022, 22, 1500-1514.	1.4	9
51	Room temperature luminescence and ferromagnetism of AlN:Fe. AIP Advances, 2016, 6, 065025.	0.6	8
52	Experimental investigation on phase equilibria of Cu–Ti–Hf system and performance of Cu(Ti, Hf) ₂ phase. Journal of Materials Science, 2018, 53, 7809-7821.	1.7	8
53	Enhanced thermoelectric properties in N-type Mg ₂ Si _{0.4} Sn _{0.6} Sb _x synthesized by alkaline earth metal reduction. RSC Advances, 2019, 9, 4008-4014.	1.7	8
54	Screening Nitrides with High Debye Temperatures as Nonlinear Optical Materials. Journal of Physical Chemistry C, 2022, 126, 7047-7053.	1.5	8

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55	Phase relation, structure, and properties of borate $\text{MgYB}_5\text{O}_{10}$ in $\text{MgO}-\text{Y}_2\text{O}_3-\text{B}_2\text{O}_3$ system. Powder Diffraction, 2017, 32, 97-106.	0.4	7
56	Experimental investigation and thermodynamic calculation of Ti-Co-Hf system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2018, 62, 128-140.	0.7	7
57	The tri-emitting phosphate phosphors $\text{SrIn}_2(\text{P}_2\text{O}_7)_2$: Tm, Dy, Eu for ratiometric optical thermometer. Journal of the American Ceramic Society, 2022, 105, 6184-6195.	1.9	7
58	Modification of YNbO_4 and YNbTiO_6 photoluminescence by nitrogen doping. AIP Advances, 2018, 8, .	0.6	6
59	Synergistic Regulation of Phonon and Electronic Properties to Improve the Thermoelectric Performance of Chalcogenide $\text{CuIn}_{1-x}\text{Ga}_x\text{Te}_2$: T_j ETCq1 1 0.784314 rg	2.6	6
60	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
61	Phase relation and transition in the Ti-Al-Mn system. Journal of Alloys and Compounds, 2021, 861, 158578.	2.8	6
62	Enhancement of Eu^{2+} photoluminescence behavior in $\text{NaBaB}_9\text{O}_{15}$ based on the K^+ doping. Journal of Luminescence, 2022, 243, 118613.	1.5	6
63	Crystal structure determination of new compounds $\text{Li}_6\text{M}_3\text{B}_3\text{O}_9$ ($\text{M}=\text{Nd, Sm, Eu, Tm, Er}$). Powder Diffraction, 2008, 23, 3-9.	0.4	5
64	The strategy of design and preparation for outstanding precipitation strengthened HEAs based on diffusion couple. Materials and Design, 2022, 217, 110667.	3.3	5
65	Phase relations, crystal structure, and phase transformation of $\text{In}_{1-x}\text{Nb}_{1-x}\text{Ti}_2\text{O}_4$ ($0 \leq x \leq 0.45$) in $\text{In}_2\text{O}_3-\text{Nb}_2\text{O}_5-\text{TiO}_2$ system. Journal of Alloys and Compounds, 2015, 651, 97-105.	2.8	4
66	Improvement of thermoelectric performance of copper-deficient compounds $\text{Cu}_{2.5+x}\text{In}_{4.5}\text{Te}_8$ ($x=0-0.15$) due to a degenerate impurity band and ultralow lattice thermal conductivity. RSC Advances, 2018, 8, 27163-27170.	1.7	4
67	Measurement of phase equilibria in Ti-Co-Ge ternary system. Journal of Alloys and Compounds, 2019, 793, 653-661.	2.8	4
68	Experimental investigation and thermodynamic calculation of Ti-Hf-Mn system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2020, 70, 101776.	0.7	4
69	Structure of a new compound KBaB_5O_9 and photoluminescence characteristics of $\text{KBaB}_5\text{O}_9:\text{Eu}^{3+}$. Powder Diffraction, 2007, 22, 292-294.	0.4	3
70	Experimental investigation of phase equilibria in $\text{Cu}-\text{Ge}-\text{Ti}$ system. Journal of Alloys and Compounds, 2015, 651, 590-597.	2.8	3
71	Experimental Investigation of Phase Equilibria in the Cu-Co-Zr System. Journal of Phase Equilibria and Diffusion, 2017, 38, 855-864.	0.5	3
72	Phase equilibria and transformation in the $\text{Ti}-\text{Al}-\text{Ta}$ system. Journal of Materials Science, 2022, 57, 2163-2179.	1.7	3

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73	Crystal structure and thermal properties of compound $K_2Zn_3(P_2O_7)_2$. Powder Diffraction, 2008, 23, 317-322.	0.4	2
74	Synthesis and characterization of powder four borate $Sr_3Sm_2(BO_3)_4$. Powder Diffraction, 2013, 28, 262-268.	0.4	2
75	Experimental investigation of phase equilibria in the Cu-Ni-Zr system. Journal of Materials Science, 2015, 50, 7238-7247.	1.7	2
76	Experimental Study on Phase Equilibria in Ti-Cu-Pt System. Journal of Phase Equilibria and Diffusion, 2017, 38, 466-476.	0.5	2
77	Experimental investigation of phase equilibria in the Tb-Si-Cr system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2019, 65, 212-224.	0.7	2
78	An electromagnetic separation system for the enrichment of ^{39}Ar . Review of Scientific Instruments, 2020, 91, 033309.	0.6	2
79	Status of high intensity low energy injector for Jinping underground nuclear astrophysics experiments. AIP Conference Proceedings, 2018, , .	0.3	1
80	Increased effective mass and carrier concentration responsible for the improved thermoelectric performance of the nominal compound $Cu_2Ga_4Te_7$ with Sb substitution for Cu. RSC Advances, 2018, 8, 21637-21643.	1.7	1
81	Experimental investigation of phase relationship in Ti-Fe-Hf ternary system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2019, 67, 101669.	0.7	1
82	Ion beam production with an antenna type 2.45 GHz electron cyclotron resonance ion source. Review of Scientific Instruments, 2020, 91, 023301.	0.6	1
83	Experimental Investigation of Phase Equilibria in the Cu-Cr-Ti System. Journal of Phase Equilibria and Diffusion, 2021, 42, 389-402.	0.5	1
84	Synthesis of $Ni_{1-x}Zn_xO$ hollow structures by a facile method. Physica E: Low-Dimensional Systems and Nanostructures, 2015, 66, 257-262.	1.3	0
85	Experimental Investigation of Phase Equilibria in Zr-Ni-Pt System. Journal of Phase Equilibria and Diffusion, 2018, 39, 301-314.	0.5	0
86	Experimental Investigation of Phase Equilibria in Ti-Zr-Ge System. Journal of Phase Equilibria and Diffusion, 2018, 39, 226-236.	0.5	0