# Ge-Mei Cai

## List of Publications by Citations



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| 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 | Synthesis of Mo2N nanolayer coated MoO2 hollow nanostructures as high-performance anode materials for lithium-ion batteries. *Energy and Environmental Science*, **2013**, 6, 2691 | 35.4 | 215 |
| 83 | New Prelithiated V2O5 Superstructure for Lithium-Ion Batteries with Long Cycle Life and High Power. *ACS Energy Letters*, **2020**, 5, 31-38 | 20.1 | 78 |
| 82 | The Non-Concentration-Quenching Phosphor CaEuBO for WLED Application. *Inorganic Chemistry*, **2020**, 59, 3894-3904 | 5.1 | 51 |
| 81 | Layered Crystal Structure, Color-Tunable Photoluminescence, and Excellent Thermal Stability of MgInPO Phosphate-Based Phosphors. *Inorganic Chemistry*, **2017**, 56, 12902-12913 | 5.1 | 48 |
| 80 | Structure, luminescence and energy transfer in Ce3+ and Mn2+ codoped □AlON phosphors. *Journal of Materials Chemistry C*, **2019**, 7, 733-742 | 7.1 | 42 |
| 79 | Tuning of Emission by Eu Concentration in a Pyrophosphate: the Effect of Local Symmetry. *Inorganic Chemistry*, **2020**, 59, 2241-2247 | 5.1 | 42 |
| 78 | Single-phased and color tunable LiSrBO3:Dy3+, Tm3+, Eu3+ phosphors for white-light-emitting application. *Journal of Luminescence*, **2017**, 187, 211-220 | 3.8 | 38 |
| 77 | Measurement of interdiffusion and impurity diffusion coefficients in the bcc phase of the Ti□X (X = Cr, Hf, Mo, Nb, V, Zr) binary systems using diffusion multiples. *Journal of Materials Science*, **2017**, 52, 3255-3268 | 4.3 | 32 |
| 76 | Stable Oxoborate with Edge-Sharing BO4 Tetrahedra Synthesized under Ambient Pressure. *Angewandte Chemie*, **2010**, 122, 5087-5090 | 3.6 | 31 |
| 75 | New promising phosphors Ba3InB9O18 activated by Eu3+/Tb3+. *Journal of Luminescence*, **2010**, 130, 910-916 | 3.8 | 31 |
| 74 | Tunable luminescence properties and energy transfer of Tm3+, Dy3+, and Eu3+ co-activated InNbO4 phosphors for warm-white-lighting. *Ceramics International*, **2016**, 42, 15994-16006 | 5.1 | 26 |
| 73 | A new promising scintillator Ba3InB9O18. *Journal of Solid State Chemistry*, **2008**, 181, 646-651 | 3.3 | 26 |
| 72 | Efficient and stable SrEuBO red phosphor benefiting from low symmetry and distorted local environment. *Dalton Transactions*, **2020**, 49, 3260-3271 | 4.3 | 22 |
| 71 | Controlling spin-dependent tunneling by bandgap tuning in epitaxial rocksalt MgZnO films. *Scientific Reports*, **2014**, 4, 7277 | 4.9 | 22 |
| 70 | Crystal structure, luminescence properties and energy transfer of Eu3+/Dy3+ doped GdNbTiO6 broad band excited phosphors. *RSC Advances*, **2016**, 6, 50797-50807 | 3.7 | 22 |
| 69 | Structure and luminescence properties of multicolor phosphors with excellent thermal stability based on a new phosphate Ba3In4(PO4)6. *Journal of Alloys and Compounds*, **2019**, 797, 775-785 | 5.7 | 20 |
| 68 | Investigation on Eu/Tb activated photoluminescent properties of Li 3 Sc(BO 3 ) 2 based phosphors. *Journal of Alloys and Compounds*, **2017**, 719, 171-181 | 5.7 | 15 |

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| 67 | Insight into crystal structure and Eu/Tb doped luminescence property of a new phosphate. *Journal of Alloys and Compounds*, **2018**, 762, 444-455 | 5.7 | 15 |
| 66 | Crystal structure and Eu3+/Tb3+ doped luminescent properties of a new borate Ba3BiB9O18. *Materials Research Bulletin*, **2009**, 44, 2211-2216 | 5.1 | 15 |
| 65 | Structure and luminescent properties of new Dy3+/Eu3+/Sm3+-activated InNbTiO6 phosphors for white UV-LEDs. *Optical Materials*, **2019**, 98, 109403 | 3.3 | 14 |
| 64 | Three-dimensional FeSe2 microflowers assembled by nanosheets: Synthesis, optical properties, and catalytic activity for the hydrogen evolution reaction. *Electronic Materials Letters*, **2016**, 12, 237-242 | 2.9 | 13 |
| 63 | Regular hexagonal MoS2 microflakes grown from MoO3 precursor. *Applied Physics A: Materials Science and Processing*, **2007**, 89, 783-788 | 2.6 | 13 |
| 62 | Realizing high thermoelectric performance in Cu2Te alloyed Cu1.15In2.29Te4. *Journal of Materials Chemistry A*, **2019**, 7, 2360-2367 | 13 | 12 |
| 61 | Structure, tunable luminescence and thermal stability in Tb3+ and Eu3+ co-doped novel KBaIn2(PO4)3 phosphors. *Journal of Luminescence*, **2020**, 221, 117115 | 3.8 | 12 |
| 60 | Investigation of the phase equilibria in Ti-Ni-Hf system using diffusion triples and equilibrated alloys. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2017**, 58, 160-168 | 1.9 | 12 |
| 59 | A peculiar layered 12-fold cationic coordination compound LiInTi2O6: phase relations, crystal structure and color-tunable photoluminescence. *RSC Advances*, **2017**, 7, 22156-22169 | 3.7 | 11 |
| 58 | Large optical polarizability causing positive effects on the birefringence of planar-triangular BO groups in ternary borates. *Dalton Transactions*, **2020**, 49, 3284-3292 | 4.3 | 11 |
| 57 | Synthesis and relative optical properties of Eu3+/Tb3+-activated Li3InB2O6. *Journal of Alloys and Compounds*, **2013**, 562, 182-186 | 5.7 | 11 |
| 56 | Crystal structure and photoluminescence of Tb3+-activated Ba3InB3O9. *Materials Chemistry and Physics*, **2011**, 129, 761-768 | 4.4 | 11 |
| 55 | Crystal structure and luminescence properties of a novel promising phosphor Ba3ScB9O18. *Powder Diffraction*, **2007**, 22, 328-333 | 1.8 | 11 |
| 54 | Thermodynamic investigation of the Mg-Ni-Zn system by experiments and calculations and its application. *Journal of Alloys and Compounds*, **2019**, 784, 769-787 | 5.7 | 11 |
| 53 | Measurement of Diffusion Coefficients in the bcc Phase of the Ti-Sn and Zr-Sn Binary Systems. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2019**, 50, 1409-1420 | 2.3 | 10 |
| 52 | Subsolidus phase relations in CaO-In2O3-B2O3 system and crystal structure of CaInBO4. *Journal of Alloys and Compounds*, **2012**, 516, 107-112 | 5.7 | 10 |
| 51 | Experimental investigation of phase equilibria in the Ti-Al-Mo ternary system. *Journal of Materials Science*, **2017**, 52, 2270-2284 | 4.3 | 9 |
| 50 | Investigation of phase equilibria in the Ti-Co-Zr ternary system. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2017**, 56, 260-269 | 1.9 | 8 |

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| 49 | Luminescent properties and performance tune of novel red-emitting phosphor CaInBO4: Eu3+. *Journal of Alloys and Compounds*, **2015**, 650, 494-501 | 5.7 | 8 |
| 48 | Synthesis and photoluminescence of host-sensitized MgNb2O6 based phosphors. *Journal of Luminescence*, **2018**, 198, 10-18 | 3.8 | 8 |
| 47 | Significant improvement in the thermoelectric performance of Sb-incorporated chalcopyrite compounds Cu18Ga25SbxTe50 (x = 0 .125) through the coordination of energy band and crystal structures. *Journal of Materials Chemistry A*, **2017**, 5, 24199-24207 | 13 | 8 |
| 46 | Daylight-White-Emitting and Abnormal Thermal Antiquenching Phosphors Based on a Layered Host SrIn(PO). *Inorganic Chemistry*, **2021**, 60, 2279-2293 | 5.1 | 8 |
| 45 | Enhanced scintillation of Ba3In(B3O6)3 based on nitrogen doping. *Journal of Solid State Chemistry*, **2018**, 258, 351-357 | 3.3 | 7 |
| 44 | Red-green-blue-tunable emission from Eu3+ and Tb3+ codoped pyrophosphate phosphors. *Journal of Luminescence*, **2019**, 215, 116732 | 3.8 | 6 |
| 43 | Structure, tunable luminescence and energy transfer in Tb and Eu codoped BaInBO phosphors.. *RSC Advances*, **2019**, 9, 1029-1035 | 3.7 | 6 |
| 42 | Experimental investigation on phase equilibria of CuTiHf system and performance of Cu(Ti, Hf)2 phase. *Journal of Materials Science*, **2018**, 53, 7809-7821 | 4.3 | 6 |
| 41 | Experimental investigation and thermodynamic calculation of Ti-Co-Hf system. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2018**, 62, 128-140 | 1.9 | 6 |
| 40 | Reduction of Ce(IV) to Ce(III) induced by structural characteristics and performance characterization of pyrophosphate MgIn2P4O14-based phosphors. *Journal of Luminescence*, **2018**, 203, 590-598 | 3.8 | 6 |
| 39 | Room temperature luminescence and ferromagnetism of AlN:Fe. *AIP Advances*, **2016**, 6, 065025 | 1.5 | 6 |
| 38 | Multicolor emission leading by energy transfer between Dy3+ and Eu3+ in wolframite InNbTiO6. *Journal of Luminescence*, **2020**, 227, 117578 | 3.8 | 5 |
| 37 | Synthesis, crystal structure, and thermal stability of new borates Na3REB2O6 (RE = Pr, Sm, Eu). *Powder Diffraction*, **2016**, 31, 110-117 | 1.8 | 5 |
| 36 | Enhanced thermoelectric properties in N-type MgSi SnSb synthesized by alkaline earth metal reduction.. *RSC Advances*, **2019**, 9, 4008-4014 | 3.7 | 4 |
| 35 | Phase relations, crystal structure, and phase transformation of In 1 Nb 1 Ti 2x O 4 (0 x *Journal of Alloys and Compounds*, **2015**, 651, 97-105 | 5.7 | 4 |
| 34 | 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 | 3.8 | 4 |
| 33 | Improvement of thermoelectric performance of copper-deficient compounds Cu InTe ( = 0-0.15) due to a degenerate impurity band and ultralow lattice thermal conductivity.. *RSC Advances*, **2018**, 8, 27163-27170 | 3.7 | 4 |
| 32 | Photoluminescence and energy transfer of efficient and thermally stable white-emitting Ca9La(PO4)7:Ce3+, Tb3+, Mn2+ phosphors. *Ceramics International*, **2021**, 47, 12056-12065 | 5.1 | 4 |

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| 31 | Synergistic Regulation of Phonon and Electronic Properties to Improve the Thermoelectric Performance of Chalcogenide CuIn1−xGaxTe2:yInTe (x = 0−0.3) with In Situ Formed Nanoscale Phase InTe. *Advanced Electronic Materials*, **2020**, 6, 1901141 | 6.4 | 3 |
| 30 | Modification of YNbO4 and YNbTiO6 photoluminescence by nitrogen doping. *AIP Advances*, **2018**, 8, 045107 | 1.5 | 3 |
| 29 | Phase relation, structure, and properties of borate MgYB5O10 in MgO−Y2O3−B2O3 system. *Powder Diffraction*, **2017**, 32, 97-106 | 1.8 | 3 |
| 28 | Structure of a new compound KBaB5O9 and photoluminescence characteristics of KBaB5O9:Eu3+. *Powder Diffraction*, **2007**, 22, 292-294 | 1.8 | 3 |
| 27 | Dependence of Luminous Performance on Eu Site Occupation in SrIn(PO): The Effect of the Local Environment. *Inorganic Chemistry*, **2021**, 60, 17219-17229 | 5.1 | 3 |
| 26 | Measurement of phase equilibria in Ti-Co-Ge ternary system. *Journal of Alloys and Compounds*, **2019**, 793, 653-661 | 5.7 | 2 |
| 25 | Experimental investigation of phase equilibria in the Tb-Si-Cr system. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2019**, 65, 212-224 | 1.9 | 2 |
| 24 | Experimental investigation of phase equilibria in Cu−Ge−Ti system. *Journal of Alloys and Compounds*, **2015**, 651, 590-597 | 5.7 | 2 |
| 23 | Experimental investigation and thermodynamic calculation of Ti-Hf-Mn system. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2020**, 70, 101776 | 1.9 | 2 |
| 22 | Experimental Investigation of Phase Equilibria in the Cu-Co-Zr System. *Journal of Phase Equilibria and Diffusion*, **2017**, 38, 855-864 | 1 | 2 |
| 21 | Experimental Study on Phase Equilibria in Ti-Cu-Pt System. *Journal of Phase Equilibria and Diffusion*, **2017**, 38, 466-476 | 1 | 2 |
| 20 | Experimental investigation of phase equilibria in the Cu−Ni−Zr system. *Journal of Materials Science*, **2015**, 50, 7238-7247 | 4.3 | 2 |
| 19 | Crystal structure determination of new compounds Li6MB3O9 (M=Nd,Sm,Eu,Tm,Er). *Powder Diffraction*, **2008**, 23, 3-9 | 1.8 | 2 |
| 18 | Phase relation and transition in the Ti-Al-Mn system. *Journal of Alloys and Compounds*, **2021**, 861, 158578 | 5.7 | 2 |
| 17 | Experimental investigation of phase relationship in Ti-Fe-Hf ternary system. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2019**, 67, 101669 | 1.9 | 1 |
| 16 | An electromagnetic separation system for the enrichment of Ar. *Review of Scientific Instruments*, **2020**, 91, 033309 | 1.7 | 1 |
| 15 | Increased effective mass and carrier concentration responsible for the improved thermoelectric performance of the nominal compound CuGaTe with Sb substitution for Cu.. *RSC Advances*, **2018**, 8, 21637-21643 | 3.7 | 1 |
| 14 | Synthesis and characterization of powder four borate Sr3Sm2(BO3)4. *Powder Diffraction*, **2013**, 28, 262-268 | 1.8 | 1 |

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| 13 | Crystal structure and thermal properties of compound K2Zn3(P2O7)2. *Powder Diffraction*, **2008**, 23, 317-322 | 1.2 | 1 |
| 12 | Enhancement of Eu2+ photoluminescence behavior in NaBaB9O15 based on the K+ doping. *Journal of Luminescence*, **2021**, 118613 | 3.8 | 1 |
| 11 | Structure and tunable luminescence in Sm3+/Er3+ doped host-sensitized LaNbO4 phosphor by energy transfer. *Ceramics International*, **2020**, 46, 28373-28381 | 5.1 | 1 |
| 10 | Tunable emission, energy transfer and thermal stability of Ce3+, Tb3+ co-doped Na2BaCa(PO4)2 phosphors. *Journal of Rare Earths*, **2021**, | 3.7 | 1 |
| 9 | Review of Heteroleptic Tetrahedra as Birefringent or Nonlinear Optical Motifs. *Crystal Growth and Design*, **2022**, 22, 1500-1514 | 3.5 | 0 |
| 8 | Phase equilibria and transformation in the Ti-Al-Ta system. *Journal of Materials Science*, **2022**, 57, 2163-2179 | 4.5 | 0 |
| 7 | Excellent enhancement of thermal stability and quantum efficiency for Na2BaCa(PO4)2:Eu2+ phosphor based on Sr doping into Ca. *Journal of Alloys and Compounds*, **2022**, 165092 | 5.7 | 0 |
| 6 | The strategy of design and preparation for outstanding precipitation strengthened HEAs based on diffusion couple. *Materials and Design*, **2022**, 217, 110667 | 8.1 | 0 |
| 5 | Synthesis of Ni1-xZnxO hollow structures by a facile method. *Physica E: Low-Dimensional Systems and Nanostructures*, **2015**, 66, 257-262 | 3 | |
| 4 | Ion beam production with an antenna type 2.45 GHz electron cyclotron resonance ion source. *Review of Scientific Instruments*, **2020**, 91, 023301 | 1.7 | |
| 3 | Experimental Investigation of Phase Equilibria in Zr-Ni-Pt System. *Journal of Phase Equilibria and Diffusion*, **2018**, 39, 301-314 | 1 | |
| 2 | Experimental Investigation of Phase Equilibria in Ti-Zr-Ge System. *Journal of Phase Equilibria and Diffusion*, **2018**, 39, 226-236 | 1 | |
| 1 | Experimental Investigation of Phase Equilibria in the Cu-Cr-Ti System. *Journal of Phase Equilibria and Diffusion*, **2021**, 42, 389-402 | 1 | |