# Zhongfei Mu

## List of Publications by Year in Descending Order



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| 109 papers | 2,318 citations | 28 h-index | 41 g-index |
| 116 ext. papers | 2,946 ext. citations | 4 avg, IF | 5.17 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 109 | Achieving an ultra-broadband infrared emission through efficient energy transfer in LiInP2O7: Cr3+, Yb3+ phosphor. *Journal of Alloys and Compounds*, **2022**, 894, 162386 | 5.7 | 9 |
| 108 | Fluorescence intensity ratio optical thermometer YNbO4: Pr3+, Tb3+ based on intervalence charge transfer. *Powder Technology*, **2022**, 395, 83-92 | 5.2 | 2 |
| 107 | Efficient and Thermally Stable Broad-Band Near-Infrared Emission in a KAlPO:Cr Phosphor for Nondestructive Examination.. *ACS Applied Materials & Interfaces*, **2022**, | 9.5 | 9 |
| 106 | K replaces Rb towards cyan to red ultra-wideband perovskite-type phosphors for full-spectrum lighting. *Optical Materials*, **2022**, 127, 112246 | 3.3 | 0 |
| 105 | Pressure-Induced High-Energy-Density BeN4 Materials with Nitrogen Chains: First-Principles Study. *Journal of Physical Chemistry C*, **2021**, 125, 25376-25382 | 3.8 | 0 |
| 104 | Trivalent Chromium Ions Doped Fluorides with Both Broad Emission Bandwidth and Excellent Luminescence Thermal Stability. *ACS Applied Materials & Interfaces*, **2021**, 13, 18274-18282 | 9.5 | 30 |
| 103 | Phase Transition and Behaviors of N□N Bonds in Group-IVB Transition-Metal Pernitrides: First-Principles Calculations under High Pressures. *Journal of Physical Chemistry C*, **2021**, 125, 11555-11566 | 3.8 | 0 |
| 102 | Na Replaces Rb towards High-Performance Narrow-Band Green Phosphors for Backlight Display Applications. *Advanced Optical Materials*, **2021**, 9, 2100465 | 8.1 | 7 |
| 101 | A review on fluorescence intensity ratio thermometer based on rare-earth and transition metal ions doped inorganic luminescent materials. *Journal of Alloys and Compounds*, **2021**, 850, 156744 | 5.7 | 65 |
| 100 | The design of dual-switch fluorescence intensity ratio thermometry with high sensitivity and thermochromism based on a combination strategy of intervalence charge transfer and up-conversion fluorescence thermal enhancement. *Dalton Transactions*, **2021**, 50, 9298-9309 | 4.3 | 3 |
| 99 | Pyrene-based aggregation-induced emission luminogens (AIEgens) with less colour migration for anti-counterfeiting applications. *Journal of Materials Chemistry C*, **2021**, 9, 12828-12838 | 7.1 | 9 |
| 98 | KCaLa(PO4)2: Ce3+, Dy3+Phosphorsfor White Light-Emitting Diodes with Abnormal Thermal Quenching and High Quantum Efficiency. *Journal of Electronic Materials*, **2021**, 50, 6283-6290 | 1.9 | 0 |
| 97 | Bi3+ and Eu3+ co-doped LaB3O6 phosphors for optical temperature sensing based on fluorescence intensity ratio. *Optik*, **2021**, 243, 167459 | 2.5 | 2 |
| 96 | The structure and luminescence properties of blue□green-emitting Sr2YNbO6: Bi3+ phosphors. *Journal of Luminescence*, **2021**, 239, 118336 | 3.8 | 1 |
| 95 | Design of single-component panchromatic white light emitting phosphors using co-substitution strategy to stabilize divalent ions. *Journal of Luminescence*, **2020**, 225, 117400 | 3.8 | 2 |
| 94 | Photoluminescence properties of Sr2MgSi2O7:Pb2+ and tunable emission from UVB to UVC based on ion substitution. *Journal of Luminescence*, **2020**, 225, 117353 | 3.8 | 2 |
| 93 | Photoluminescence properties of LaB3O6: Dy3+ phosphors for white light-emitting diodes. *Optik*, **2020**, 216, 164877 | 2.5 | 2 |

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| 92 | A warm white emission of Bi-Eu and Bi-Sm codoping LuGeO phosphors by energy transfer of Bi-sensitized Eu/Sm. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2020**, 228, 117755 | 4.4 | 19 |
| 91 | Energy Transfer and Multicolor-Tunable Emissions of Sr3La6(SiO4)6:Ce3+, Tb3+, Eu3+. *Journal of Electronic Materials*, **2020**, 49, 1404-1411 | 1.9 | 6 |
| 90 | Ratiometric Optical Thermometer with High Sensitivity Based on Site-Selective Occupancy of Mn2+ Ions in Li5Zn8Al5Ge9O36 under Controllable Synthesis Atmosphere. *Journal of Physical Chemistry C* , **2020**, 124, 886-895 | 3.8 | 15 |
| 89 | Ratiometric optical thermometer with high sensitivity based on dual far-red emission of Cr3+ in Sr2MgAl22O36. *Ceramics International*, **2020**, 46, 5008-5014 | 5.1 | 16 |
| 88 | Understanding the cyan-emitting phosphor RbNa(Li3SiO4)2: Eu2+ by providing Rb ion vacancies. *Journal of Alloys and Compounds*, **2020**, 837, 155084 | 5.7 | 9 |
| 87 | Pyrene-based blue emitters with aggregation-induced emission features for high-performance organic light-emitting diodes. *Journal of Materials Chemistry C*, **2019**, 7, 2283-2290 | 7.1 | 40 |
| 86 | High brightness and precise adjustment of multicolor-tunable luminescence of Lu2GeO5:Tb3+, Eu3+ phosphors for white LEDs. *Current Applied Physics*, **2019**, 19, 1052-1061 | 2.6 | 12 |
| 85 | Phase modulation of acoustic vortex beam with metasurfaces. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2019**, 383, 2640-2644 | 2.3 | 8 |
| 84 | Highly bright multicolor-tunable KSrLu(PO):Ce, Tb, Mn phosphors via efficient energy transfer. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2019**, 219, 110-120 | 4.4 | 10 |
| 83 | Energy transfer and luminescence properties of Y3Al2Ga3O12: Tb3+, Sm3+ as a multi-colour emitting phosphors. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 10491-10498 | 2.1 | 1 |
| 82 | Energy transfer and tunable luminescence properties in Y3Al2Ga3O12: Tb3+, Eu3+ phosphors. *Journal of Alloys and Compounds*, **2019**, 787, 672-682 | 5.7 | 35 |
| 81 | Transition-metal-element dependence of ideal shear strength and elastic behaviors of γ′-Ni3Al: ab initio study to guide rational alloy design. *Journal of Alloys and Compounds*, **2019**, 806, 1260-1266 | 5.7 | 13 |
| 80 | Luminescence properties and energy transfer of Ce3+/Dy3+co-activated LaAl2.03B4O10.54 phosphors for wLEDs. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 13201-13208 | 2.1 | 2 |
| 79 | The luminescence properties, energy transfer mechanism of the color tunable and high quantum efficiency LaAl2.03B4O10.54: Ce3+, Tb3+ phosphors. *Ceramics International*, **2019**, 45, 20316-20322 | 5.1 | 13 |
| 78 | A red phosphor Mg3Y2Ge3O12: Bi3+, Eu3+ with high brightness and excellent thermal stability of luminescence for white light-emitting diodes. *Journal of Luminescence*, **2019**, 210, 202-209 | 3.8 | 44 |
| 77 | Bi3+ and Mn4+ co-doped La2MgGeO6 blue-red tunable emission phosphors based on energy transfer for agricultural applications. *Optik*, **2019**, 179, 1035-1041 | 2.5 | 20 |
| 76 | Near-infrared quantum cutting via energy transfer in Bi3+, Yb3+ co-doped Lu2GeO5 down-converting phosphor. *Journal of Alloys and Compounds*, **2019**, 784, 611-619 | 5.7 | 27 |
| 75 | Enhanced near infrared luminescence of Lu2GeO5: Nd3+ by the co-doping of Bi3+. *Journal of Luminescence*, **2019**, 206, 278-283 | 3.8 | 10 |

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| 74 | Bi3+ and Sm3+ co-doped La2MgGeO6: A novel color-temperature indicator based on different heat quenching behavior from different luminescent centers. *Journal of Luminescence*, **2019**, 206, 462-468 | 3.8 | 29 |
| 73 | A novel near infrared long-persistent phosphor La2MgGeO6:Cr3+, RE3+ (RE = Dy, Sm). *Journal of Luminescence*, **2019**, 206, 618-623 | 3.8 | 25 |
| 72 | An investigation about the luminescence mechanism of SrGa2O4:Eu3+ showing no detectable energy transfer from the host to the dopant ions. *Journal of Luminescence*, **2018**, 200, 169-174 | 3.8 | 7 |
| 71 | Dy3+ Doped Ca9Gd(PO4)7: a novel single-phase full-color emitting phosphor. *Journal of Materials Science: Materials in Electronics*, **2018**, 29, 6548-6555 | 2.1 | 23 |
| 70 | Tunable Polarity Behavior and High-Performance Photosensitive Characteristics in Schottky-Barrier Field-Effect Transistors Based on Multilayer WS. *ACS Applied Materials & Interfaces*, **2018**, 10, 2745-2751 | 9.5 | 13 |
| 69 | A quantum topological transistor in bilayer graphene. *Applied Physics Express*, **2018**, 11, 075104 | 2.4 | 3 |
| 68 | The effect of Sr/Ba ratio on the structure and luminescence properties of phosphors Sr2-Ba MgGeO7: Pb2+. *Optik*, **2018**, 174, 56-61 | 2.5 | 3 |
| 67 | The synthesis and the luminescence properties of Sr2Ga3La1-Dy Ge3O14. *Physica B: Condensed Matter*, **2018**, 530, 258-263 | 2.8 | 8 |
| 66 | Angular control of acoustic waves oblique incidence by phononic crystals based on Dirac cones at the Brillouin zone boundary. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2018**, 382, 423-427 | 2.3 | 2 |
| 65 | Luminescence properties of Eu3+ doped La3Ga5GeO14 and effect of Bi3+ co-doping. *Journal of Luminescence*, **2018**, 196, 50-56 | 3.8 | 31 |
| 64 | Acoustic metasurface for refracted wave manipulation. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2018**, 382, 357-361 | 2.3 | 16 |
| 63 | Fabrication of a high performance ZnIn2S4/Si heterostructure photodetector array for weak signal detection. *Journal of Materials Chemistry C*, **2018**, 6, 12928-12939 | 7.1 | 20 |
| 62 | Adjusting the structure and luminescence properties of Sr Ba MgAl O :Eu phosphors by Sr:Ba ratio. *Luminescence*, **2018**, 33, 1371-1376 | 2.5 | 5 |
| 61 | Efficient near ultraviolet to near infrared downconversion photoluminescence of La2GeO5: Bi3+, Nd3+ phosphor for silicon-based solar cells. *Optical Materials*, **2018**, 85, 523-530 | 3.3 | 16 |
| 60 | Preparation and luminescence properties of white light-emitting phosphors LaAl2.03B4O10.54: Dy3+. *Applied Physics A: Materials Science and Processing*, **2018**, 124, 1 | 2.6 | 9 |
| 59 | Preparation and Luminescence Properties of Ca9NaZn(PO4)7:Dy3+ Single-Phase White Light-Emitting Phosphor. *Journal of Electronic Materials*, **2018**, 47, 4840-4844 | 1.9 | 6 |
| 58 | Photoluminescence and tunable emissions of La2(GeO4)O:Bi3+, Eu3+ phosphor for ultraviolet converted light emitting diodes. *Journal of Alloys and Compounds*, **2018**, 757, 423-433 | 5.7 | 23 |
| 57 | Tunable blue-green color emitting phosphors Sr3YNa(PO4)3F:Eu2+, Tb3+ based on energy transfer for near-UV white LEDs. *Journal of Luminescence*, **2017**, 185, 106-111 | 3.8 | 23 |

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| 56 | White-light long persistent luminescence of Tb3+-doped Y3Al2Ga3O12 phosphor. *Journal of Alloys and Compounds*, **2017**, 729, 418-425 | 5.7 | 27 |
| 55 | The synthesis and luminescence properties of a novel red-emitting phosphor: Eu3+-doped Ca9La(PO4)7. *Applied Physics A: Materials Science and Processing*, **2017**, 123, 1 | 2.6 | 14 |
| 54 | A red emitting stoichiometric phosphor Sr2Ga3La1 Eu x Ge3O14 for white light emitting diodes. *Journal of Materials Science: Materials in Electronics*, **2017**, 28, 15921-15927 | 2.1 | 6 |
| 53 | Reversible white-brown photochromism in a self-activated long-persistent phosphor Mg_2SnO_4. *Optical Materials Express*, **2017**, 7, 1014 | 2.6 | 12 |
| 52 | A Novel Orange Emitting Long Persistent Phosphor CdGeO3:Sm3+. *Science of Advanced Materials*, **2017**, 9, 386-391 | 2.3 | 3 |
| 51 | Luminescent properties of a green long persistent phosphor Li_2MgGeO_4:Mn^2+. *Optical Materials Express*, **2016**, 6, 929 | 2.6 | 24 |
| 50 | A deep red phosphor Li2MgTiO4:Mn4+ exhibiting abnormal emission: Potential application as color converter for warm w-LEDs. *Chemical Engineering Journal*, **2016**, 288, 596-607 | 14.7 | 196 |
| 49 | Multifunctional near-infrared emitting Cr3+-doped Mg4Ga8Ge2O20 particles with long persistent and photostimulated persistent luminescence, and photochromic properties. *Journal of Materials Chemistry C*, **2016**, 4, 6614-6625 | 7.1 | 85 |
| 48 | Red phosphor Li2Mg2(WO4)3: Eu3+ with lyonsite structure for near ultraviolet light-emitting diodes. *Displays*, **2016**, 43, 18-22 | 3.4 | 8 |
| 47 | Preparation, Design, and Characterization of the Novel Long Persistent Phosphors: Na2ZnGeO4 and Na2ZnGeO4:Mn2+. *Journal of the American Ceramic Society*, **2015**, 98, 1555-1561 | 3.8 | 32 |
| 46 | Preparation and characterization of a long persistent phosphor Na_2Ca_3Si_2O_8:Ce^3+. *Optical Materials Express*, **2015**, 5, 1488 | 2.6 | 10 |
| 45 | Reversible colorless-cyan photochromism in Eu2+-doped Sr3YNa(PO4)3F powders. *Journal of Materials Chemistry C*, **2015**, 3, 9435-9443 | 7.1 | 43 |
| 44 | Synthesis and luminescence properties of a novel yellowish-pink emissive long persistent luminescence phosphor Cd 2 GeO 4 :Pr 3+. *Journal of Alloys and Compounds*, **2015**, 623, 255-260 | 5.7 | 17 |
| 43 | A reddish orange stoichiometric phosphor LiEu(PO3)4 for white light-emitting diodes. *Ceramics International*, **2014**, 40, 2575-2579 | 5.1 | 19 |
| 42 | Recent progress in Eu2+-activated phosphate persistent phosphors. *Optical Materials*, **2014**, 36, 1920-1923 | 3.3 | 7 |
| 41 | Reversible white and light gray photochromism in europium doped Zn2GeO4. *Materials Letters*, **2014**, 134, 187-189 | 3.3 | 25 |
| 40 | Photoluminescence, reddish orange long persistent luminescence and photostimulated luminescence properties of praseodymium doped CdGeO3 phosphor. *Journal of Alloys and Compounds*, **2014**, 616, 159-165 | 5.7 | 30 |
| 39 | Persistent luminescence in CaAl2Si2O8:Eu2+,R3+ (R=Pr, Nd, Dy, Ho and Er). *Journal of Luminescence* , **2014**, 146, 102-108 | 3.8 | 16 |

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| 38 | Synthesis of Bi3+ and Gd3+ doped ZnB2O4 for evaluation as potential materials in luminescent display applications. *Displays*, **2014**, 35, 147-151 | 3.4 | 11 |
| 37 | A novel orange emitting long afterglow phosphor Ca3Si2O7:Eu2+ and the enhancement by R3+ ions (R=Tm, Dy and Er). *Materials Letters*, **2014**, 126, 75-77 | 3.3 | 28 |
| 36 | Blue persistent luminescence in Eu2+ doped Ca3Mg3(PO4)4. *Optical Materials*, **2014**, 36, 1183-1188 | 3.3 | 22 |
| 35 | A single-phase, color-tunable, broadband-excited white light-emitting phosphor Y2WO6: Sm3+. *Journal of Luminescence*, **2014**, 146, 33-36 | 3.8 | 37 |
| 34 | Synthesis of Sm3+ and Dy3+ doped LaBWO6 for evaluation as potential materials in luminescent display applications. *Displays*, **2014**, 35, 261-265 | 3.4 | 12 |
| 33 | A novel emitting color tunable phosphor Ba3Gd(PO4)3: Ce3+, Tb3+ based on energy transfer. *Physica B: Condensed Matter*, **2014**, 436, 105-110 | 2.8 | 33 |
| 32 | Effect of alkali metal ions co-doping on the structure and luminescent properties of phosphor Zn3(BO3)2:Eu3+. *Displays*, **2013**, 34, 341-345 | 3.4 | 9 |
| 31 | Effect of defect configuration on the localization of phonons in two-dimensional phononic crystals. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2013**, 377, 889-894 | 2.3 | 20 |
| 30 | The influence of auxiliary codopants on persistent phosphor Sr2P2O7:Eu2+,R3+ (R=Y, La, Ce, Gd, Tb and Lu). *Materials Research Bulletin*, **2013**, 48, 4743-4748 | 5.1 | 16 |
| 29 | Concentration quenching of persistent luminescence. *Physica B: Condensed Matter*, **2013**, 415, 1-4 | 2.8 | 35 |
| 28 | Persistent luminescence in Ba5(PO4)3Cl:Eu2+,R3+ (R = Y, La, Ce, Gd, Tb and Lu). *Materials Research Bulletin*, **2013**, 48, 2598-2603 | 5.1 | 16 |
| 27 | Enhancement of red fluorescence and afterglow in CaWO4:Eu3+ by addition of MoO3. *Displays*, **2013**, 34, 334-340 | 3.4 | 7 |
| 26 | Persistent luminescence in Bi3+ doped CaWO4 matrix. *Radiation Measurements*, **2013**, 51-52, 18-24 | 1.5 | 18 |
| 25 | Luminescent properties of Tb3+-doped Ca2SnO4 phosphor. *Journal of Luminescence*, **2013**, 138, 83-88 | 3.8 | 48 |
| 24 | Luminescent Properties of Praseodymium in CaWO4 Matrix. *Journal of the American Ceramic Society*, **2012**, 95, 3214-3219 | 3.8 | 20 |
| 23 | The luminescence of bismuth and europium in Ca4YO(BO3)3. *Journal of Luminescence*, **2012**, 132, 717-723 | 3.8 | 14 |
| 22 | Luminescence and red long afterglow investigation of Eu3+,Sm3+ CO-doped CaWO4 phosphor. *Journal of Luminescence*, **2012**, 132, 887-894 | 3.8 | 59 |
| 21 | Luminescence properties of Y2O3:Bi3+, Ln3+ (Ln=Sm, Eu, Dy, Er, Ho) and the sensitization of Ln3+ by Bi3+. *Journal of Luminescence*, **2012**, 132, 1853-1859 | 3.8 | 65 |

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| 20 | Luminescence and energy transfer in phosphor LiAl5O8: Ce3+, Dy3+. *Radiation Measurements*, **2012**, 47, 426-429 | 1.5 | 16 |
| 19 | Luminescence properties of Eu3+ and Ho3+ in Sr2TiO4. *Journal of Rare Earths*, **2012**, 30, 744-747 | 3.7 | 4 |
| 18 | A reddish orange-emitting stoichiometric phosphor K3Eu(PO4)2 for white light-emitting diodes. *Optics and Laser Technology*, **2012**, 44, 39-42 | 4.2 | 43 |
| 17 | Intense Green-Emission and Energy Transfer in Phosphor LiGd(PO3)4: Ce3+, Tb3+. *ECS Journal of Solid State Science and Technology*, **2012**, 1, R153-R157 | 2 | 2 |
| 16 | Luminescent properties of Na3Gd1−xEux(PO4)2 and energy transfer in these phosphors. *Journal of Alloys and Compounds*, **2011**, 509, 5655-5659 | 5.7 | 25 |
| 15 | Luminescence and energy transfer of Mn2+ and Tb3+ in Y3Al5O12 phosphors. *Journal of Alloys and Compounds*, **2011**, 509, 6476-6480 | 5.7 | 34 |
| 14 | Enhanced red emission in ZnB2O4:Eu3+ by charge compensation. *Optical Materials*, **2011**, 34, 89-94 | 3.3 | 42 |
| 13 | Observation on long afterglow of Tb3+ in CaWO4. *Materials Research Bulletin*, **2011**, 46, 2489-2493 | 5.1 | 25 |
| 12 | Luminescence investigation of Eu3+-Bi3+ co-doped CaMoO4 phosphor. *Journal of Rare Earths*, **2011**, 29, 837-842 | 3.7 | 37 |
| 11 | Enhanced Red Emission in Sr2CeO4: Eu3+ by Charge Compensation. *Journal of the Electrochemical Society*, **2011**, 158, J287 | 3.9 | 25 |
| 10 | White-Light Generation and Energy Transfer in Y2O3:Bi,Eu Phosphor for Ultraviolet Light-Emitting Diodes. *Journal of the Electrochemical Society*, **2011**, 158, J294 | 3.9 | 42 |
| 9 | The structure and luminescence properties of a novel orange emitting phosphor Y3MnxAl5−xSixO12. *Physica B: Condensed Matter*, **2011**, 406, 864-868 | 2.8 | 26 |
| 8 | A red-emitting heavy doped phosphor Li6Y(BO3)3:Eu3+ for white light-emitting diodes. *Optical Materials*, **2011**, 33, 1297-1301 | 3.3 | 57 |
| 7 | The structure and luminescence properties of long afterglow phosphor Y3−MnxAl5−SixO12. *Journal of Luminescence*, **2011**, 131, 676-681 | 3.8 | 29 |
| 6 | Enhanced luminescence of Dy3+ in Y3Al5O12 by Bi3+ co-doping. *Journal of Luminescence*, **2011**, 131, 1687-1691 | 3.8 | 37 |
| 5 | Enhanced red emission in ZnMoO4 : Eu3+by charge compensation. *Journal Physics D: Applied Physics*, **2010**, 43, 055101 | 3 | 52 |
| 4 | Synthesis and luminescent properties of Eu3+-activated molybdate-based novel red-emitting phosphors for white LEDs. *Journal of Alloys and Compounds*, **2010**, 501, 124-129 | 5.7 | 48 |
| 3 | ACOUSTIC BAND GAPS TUNED BY TRANSLATION GROUP SYMMETRY IN TWO-DIMENSIONAL PERIODIC COMPOSITES. *Modern Physics Letters B*, **2009**, 23, 1687-1694 | 1.6 | 3 |

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| 2 | Acoustic band gaps in three-dimensional CsCl-type periodic liquid composites. *Solid State Communications*, **2008**, 148, 267-270 | 1.6 | 1 |
| 1 | Larger acoustic band gaps obtained by configurations of rods in two-dimensional phononic crystals. *Journal Physics D: Applied Physics*, **2007**, 40, 5584-5587 | 3 | 15 |