

Yonggang Wang

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87

papers

2,298

citations

27

h-index

46

g-index

95

ext. papers

2,804

ext. citations

6.9

avg, IF

4.99

L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 87 | Pressure-Induced Phase Transformation, Reversible Amorphization, and Anomalous Visible Light Response in Organolead Bromide Perovskite. <i>Journal of the American Chemical Society</i> , 2015 , 137, 11144-11149 | 16.4 | 226 |
| 86 | Unprecedented Eighteen-Faceted BiOCl with a Ternary Facet Junction Boosting Cascade Charge Flow and Photo-redox. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 9517-9521 | 16.4 | 143 |
| 85 | High-surface vanadium oxides with large capacities for lithium-ion batteries: from hydrated aerogel to nanocrystalline VO ₂ (B), V ₆ O ₁₃ and V ₂ O ₅ . <i>Journal of Materials Chemistry</i> , 2011 , 21, 10999 | | 143 |
| 84 | Enhanced Structural Stability and Photo Responsiveness of CH ₃ NH ₃ SnI ₃ Perovskite via Pressure-Induced Amorphization and Recrystallization. <i>Advanced Materials</i> , 2016 , 28, 8663-8668 | 24 | 134 |
| 83 | High-Pressure Band-Gap Engineering in Lead-Free CsAgBiBr Double Perovskite. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 15969-15973 | 16.4 | 122 |
| 82 | Mineralizer-Assisted Hydrothermal Synthesis and Characterization of BiFeO ₃ Nanoparticles. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 2615-2617 | 3.8 | 92 |
| 81 | Aqueous acid-based synthesis of lead-free tin halide perovskites with near-unity photoluminescence quantum efficiency. <i>Chemical Science</i> , 2019 , 10, 4573-4579 | 9.4 | 77 |
| 80 | Structural manipulation approaches towards enhanced sodium ionic conductivity in Na-rich antiperovskites. <i>Journal of Power Sources</i> , 2015 , 293, 735-740 | 8.9 | 69 |
| 79 | Emergent superconductivity in an iron-based honeycomb lattice initiated by pressure-driven spin-crossover. <i>Nature Communications</i> , 2018 , 9, 1914 | 17.4 | 59 |
| 78 | Reaction mechanism studies towards effective fabrication of lithium-rich anti-perovskites Li ₃ OX (X= Cl, Br). <i>Solid State Ionics</i> , 2016 , 284, 14-19 | 3.3 | 58 |
| 77 | Nature-Derived Approach to Oxygen and Chlorine Dual-Vacancies for Efficient Photocatalysis and Photoelectrochemistry. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 2395-2406 | 8.3 | 50 |
| 76 | Pressure-Driven Cooperative Spin-Crossover, Large-Volume Collapse, and Semiconductor-to-Metal Transition in Manganese(II) Honeycomb Lattices. <i>Journal of the American Chemical Society</i> , 2016 , 138, 15751-15757 | 16.4 | 50 |
| 75 | Alkali Metal Ions-Assisted Controllable Synthesis of Bismuth Ferrites by a Hydrothermal Method. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 3673-3675 | 3.8 | 50 |
| 74 | Sodium Ion Transport Mechanisms in Antiperovskite Electrolytes Na ₃ OBr and Na ₄ OI ₂ : An in Situ Neutron Diffraction Study. <i>Inorganic Chemistry</i> , 2016 , 55, 5993-8 | 5.1 | 48 |
| 73 | Organosilane-functionalized graphene quantum dots and their encapsulation into bi-layer hollow silica spheres for bioimaging applications. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 23188-95 | 3.6 | 45 |
| 72 | Antiperovskites with Exceptional Functionalities. <i>Advanced Materials</i> , 2020 , 32, e1905007 | 24 | 40 |
| 71 | Multicolour and up-conversion fluorescence of lanthanide doped Vernier phase yttrium oxyfluoride nanocrystals. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 1995 | 7.1 | 39 |

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|----|---|------|----|
| 70 | Mesoporous Cd _{1-x} Zn _x S microspheres with tunable bandgap and high specific surface areas for enhanced visible-light-driven hydrogen generation. <i>Journal of Colloid and Interface Science</i> , 2016 , 467, 97-104 | 9.3 | 37 |
| 69 | Color-tunable and single-band red upconversion luminescence from rare-earth doped Vernier phase ytterbium oxyfluoride nanoparticles. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 684-690 | 7.1 | 36 |
| 68 | Impact of hydrostatic pressure on the crystal structure and photoluminescence properties of Mn ⁴⁺ -doped BaTiF ₆ red phosphor. <i>Dalton Transactions</i> , 2015 , 44, 7578-85 | 4.3 | 35 |
| 67 | Broadband Photoluminescence in 2D Organic-Inorganic Hybrid Perovskites: (CHN)PbBr and (CHN)PbBr. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 2934-2940 | 6.4 | 35 |
| 66 | Pressure responses of halide perovskites with various compositions, dimensionalities, and morphologies. <i>Matter and Radiation at Extremes</i> , 2020 , 5, 018201 | 4.7 | 35 |
| 65 | Low-Temperature Fluorination Route to Lanthanide-Doped Monoclinic ScOF Host Material for Tunable and Nearly Single Band Up-Conversion Luminescence. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 10314-10320 | 3.8 | 32 |
| 64 | Reversible switching between pressure-induced amorphization and thermal-driven recrystallization in VO ₂ (B) nanosheets. <i>Nature Communications</i> , 2016 , 7, 12214 | 17.4 | 30 |
| 63 | Synthesis of Highly Dispersed Barium Titanate Nanoparticles by a Novel Solvothermal Method. <i>Journal of the American Ceramic Society</i> , 2007 , 91, 315-318 | 3.8 | 28 |
| 62 | The synthesis, crystal structure and multicolour up-conversion fluorescence of Yb ³⁺ /Ln ³⁺ (Ln = Ho, Er, Tm) codoped orthorhombic lutetium oxyfluorides. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 5711 | 7.1 | 27 |
| 61 | Hydrothermal growths, optical features and first-principles calculations of sillenite-type crystals comprising discrete MO ₄ tetrahedra. <i>CrystEngComm</i> , 2012 , 14, 1063-1068 | 3.3 | 27 |
| 60 | Enhanced ionic conductivity with Li ₇ O ₂ Br ₃ phase in Li ₃ OBr anti-perovskite solid electrolyte. <i>Applied Physics Letters</i> , 2016 , 109, 101904 | 3.4 | 27 |
| 59 | High-Pressure Band-Gap Engineering in Lead-Free Cs ₂ AgBiBr ₆ Double Perovskite. <i>Angewandte Chemie</i> , 2017 , 129, 16185-16189 | 3.6 | 26 |
| 58 | Valence and spin states of iron are invisible in Earth's lower mantle. <i>Nature Communications</i> , 2018 , 9, 1284 | 17.4 | 25 |
| 57 | Giant Pressure-Driven Lattice Collapse Coupled with Intermetallic Bonding and Spin-State Transition in Manganese Chalcogenides. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 10350-3 | 16.4 | 24 |
| 56 | Controllable doping of nitrogen and tetravalent niobium affords yellow and black calcium niobate nanosheets for enhanced photocatalytic hydrogen evolution. <i>RSC Advances</i> , 2016 , 6, 64930-64936 | 3.7 | 22 |
| 55 | d-d Transitions of Fe ³⁺ ions in Fe-doped K ₂ Al ₂ B ₂ O ₇ crystal. <i>Optical Materials</i> , 2010 , 32, 1313-1316 | 3.3 | 20 |
| 54 | Pressure-Driven Reversible Switching between n- and p-Type Conduction in Chalcopyrite CuFeS ₂ . <i>Journal of the American Chemical Society</i> , 2019 , 141, 505-510 | 16.4 | 19 |
| 53 | Pressure-induced structural and electronic transitions, metallization, and enhanced visible-light responsiveness in layered rhenium disulphide. <i>Physical Review B</i> , 2018 , 97, | 3.3 | 18 |

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|----|---|-----|----|
| 52 | K ₂ Fe ₂ B ₂ O ₇ : A transparent nonlinear optical crystal with frustrated magnetism. <i>Journal of Solid State Chemistry</i> , 2010 , 183, 1221-1225 | 3.3 | 18 |
| 51 | Intrinsic zero thermal expansion in cube cyanurate K ₆ Cd ₃ (C ₃ N ₃ O ₃) ₄ . <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 2291-2295 | 6.8 | 16 |
| 50 | Synthesis and Characterization of Mesoporous SrTiO ₃ Spheres via a Poly Vinyl Alcohol-Assisted Hydrothermal Route. <i>Journal of the American Ceramic Society</i> , 2007 , 91, 299-302 | 3.8 | 16 |
| 49 | Enhanced visible-light-driven photocatalytic activity in yellow and black orthorhombic NaTaO ₃ nanocubes by surface modification and simultaneous N/Ta(4+) co-doping. <i>Journal of Colloid and Interface Science</i> , 2016 , 461, 185-194 | 9.3 | 15 |
| 48 | The impact of nitrogen doping and reduced-niobium self-doping on the photocatalytic activity of ultra-thin NbO nanosheets. <i>Dalton Transactions</i> , 2017 , 46, 13854-13861 | 4.3 | 14 |
| 47 | Elastic, magnetic and electronic properties of iridium phosphide Ir ₂ P. <i>Scientific Reports</i> , 2016 , 6, 21787 | 4.9 | 14 |
| 46 | A Multiple Structure-Design Strategy towards Ultrathin Niobate Perovskite Nanosheets with Thickness-Dependent Photocatalytic Hydrogen-Evolution Performance. <i>Chemistry - an Asian Journal</i> , 2017 , 12, 2727-2733 | 4.5 | 13 |
| 45 | Growth, characterization and the fourth harmonic generation at 266nm of K ₂ Al ₂ B ₂ O ₇ crystals without UV absorptions and Na impurity. <i>Journal of Crystal Growth</i> , 2012 , 348, 1-4 | 1.6 | 12 |
| 44 | Mechanism of enhanced ionic conductivity by rotational nitrite group in antiperovskite Na ₃ ONO ₂ . <i>Journal of Materials Chemistry A</i> , 2020 , 8, 21265-21272 | 13 | 11 |
| 43 | Robust high pressure stability and negative thermal expansion in sodium-rich antiperovskites Na ₃ OBr and Na ₄ OI ₂ . <i>Journal of Applied Physics</i> , 2016 , 119, 025901 | 2.5 | 11 |
| 42 | Note: Loading method of molecular fluorine using x-ray induced chemistry. <i>Review of Scientific Instruments</i> , 2014 , 85, 086110 | 1.7 | 10 |
| 41 | Selected-control hydrothermal growths of Bi ₂ and PbO crystals and orientated pressure-induced phase transition. <i>CrystEngComm</i> , 2013 , 15, 3513-3516 | 3.3 | 10 |
| 40 | Controllable synthesis of CdWO ₄ nanorods and nanowires via a surfactant-free hydrothermal method. <i>Journal of the Ceramic Society of Japan</i> , 2012 , 120, 259-261 | 1 | 10 |
| 39 | Core-shell Cd _{0.2} Zn _{0.8} S@BiOX (X = Cl, Br and I) microspheres: a family of hetero-structured catalysts with adjustable bandgaps, enhanced stability and photocatalytic performance under visible light irradiation. <i>Dalton Transactions</i> , 2016 , 45, 13709-16 | 4.3 | 10 |
| 38 | Carbon tetrachloride under extreme conditions. <i>Journal of Chemical Physics</i> , 2014 , 140, 194503 | 3.9 | 9 |
| 37 | High pressure studies of potassium perchlorate. <i>Chemical Physics Letters</i> , 2016 , 660, 37-42 | 2.5 | 9 |
| 36 | Pressure Impact on the Crystal Structure, Optical, and Transport Properties in Layered Oxychalcogenides BiCuChO (Ch = S, Se). <i>Journal of Physical Chemistry C</i> , 2018 , 122, 15929-15936 | 3.8 | 9 |
| 35 | Synthesis, crystal structure and visible light emission of a new inorganic-organic hybrid pentaborate, [C ₆ H ₁₄ N][B ₅ O ₆ (OH) ₄]. <i>Journal of Molecular Structure</i> , 2013 , 1048, 1-5 | 3.4 | 8 |

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| 34 | X-ray induced synthesis of a novel material: Stable, doped solid CO at ambient conditions. <i>Chemical Physics Letters</i> , 2017 , 686, 183-188 | 2.5 | 8 |
| 33 | Polymorphism of Erbium Oxyfluoride: Selective Synthesis, Crystal Structure, and Phase-Dependent Upconversion Luminescence. <i>European Journal of Inorganic Chemistry</i> , 2017 , 2017, 3849-3854 | 2.3 | 8 |
| 32 | A strong zero-phonon line red phosphor BaNbF7:Mn ⁴⁺ for white LEDs. <i>Inorganic Chemistry Frontiers</i> , 2020 , 7, 3371-3378 | 6.8 | 8 |
| 31 | Hexafluorobenzene under Extreme Conditions. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 2854-8 | 3.4 | 8 |
| 30 | Measurement of the Energy and High-Pressure Dependence of X-ray-Induced Decomposition of Crystalline Strontium Oxalate. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 7108-7113 | 2.8 | 7 |
| 29 | Communication: A novel method for generating molecular mixtures at extreme conditions: the case of hydrogen and oxygen. <i>Journal of Chemical Physics</i> , 2014 , 141, 091101 | 3.9 | 7 |
| 28 | Structural Phase Transition, Optical and Electrical Property Evolutions of Thiospinel AgInS under High Pressure. <i>Inorganic Chemistry</i> , 2019 , 58, 12628-12634 | 5.1 | 6 |
| 27 | Pressure-driven chemical lock-in structure and optical properties in Sillen compounds PbBiO ₂ X (X = Cl, Br, and I). <i>Journal of Materials Chemistry A</i> , 2020 , 8, 13610-13618 | 13 | 6 |
| 26 | Giant Pressure-Driven Lattice Collapse Coupled with Intermetallic Bonding and Spin-State Transition in Manganese Chalcogenides. <i>Angewandte Chemie</i> , 2016 , 128, 10506-10509 | 3.6 | 6 |
| 25 | Pavonite homologues as potential n-type thermoelectric materials: crystal structure and performance. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 1283-1294 | 7.8 | 6 |
| 24 | Controllable Synthesis, Polymorphism and Structure-Dependent Photoluminescence Properties of Europium Oxyfluorides. <i>European Journal of Inorganic Chemistry</i> , 2017 , 2017, 5121-5126 | 2.3 | 5 |
| 23 | Pressure-enhanced interplay between lattice, spin, and charge in the mixed perovskite La ₂ FeMnO ₆ . <i>Physical Review B</i> , 2019 , 99, | 3.3 | 5 |
| 22 | Pressure Controls the Structure and Nonlinear Optical Properties of Piezochromic CdTeMoO ₆ . <i>Chemistry of Materials</i> , 2021 , 33, 2929-2936 | 9.6 | 5 |
| 21 | A general approach to realizing perovskite nanocrystals with insulating metal sulfate shells. <i>Nanoscale</i> , 2021 , 13, 10329-10334 | 7.7 | 5 |
| 20 | Tricolor Ho ³⁺ Photoluminescence Enhancement from Site Symmetry Breakdown in Pyrochlore Ho ₂ Sn ₂ O ₇ after Pressure Treatment. <i>Physical Review Letters</i> , 2020 , 125, 245701 | 7.4 | 4 |
| 19 | Temperature-driven n-p conduction type switching without structural transition in a Cu-rich chalcogenide, NaCuS. <i>Chemical Communications</i> , 2020 , 56, 4882-4885 | 5.8 | 3 |
| 18 | Selective synthesis, polymorphism, reversible phase transition and structure-dependent optical functionalities of gadolinium oxyfluorides. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 11007-11014 | 7.1 | 3 |
| 17 | Controlled synthesis of CaMoO ₄ and SrMoO ₄ rods by a simple sonochemical method. <i>Journal of the Ceramic Society of Japan</i> , 2012 , 120, 378-381 | 1 | 3 |

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| 16 | Simultaneously achieving giant piezoelectricity and record coercive field enhancement in relaxor-based ferroelectric crystals.. <i>Nature Communications</i> , 2022 , 13, 2444 | 17.4 | 3 |
| 15 | Morphology-controlled synthesis of PbMoO ₄ crystals by a simple sonochemical method. <i>Journal of the Ceramic Society of Japan</i> , 2012 , 120, 609-612 | 1 | 2 |
| 14 | Facile morphology-controlled synthesis of Ba _{1-x} Sr _x TiO ₃ (0 ≤ x ≤ 1). <i>Journal of the Ceramic Society of Japan</i> , 2012 , 120, 43-46 | 1 | 2 |
| 13 | Syntheses and properties of a series of chromium vanadates ACrV ₂ O ₇ (A=Na, K, Rb, Cs) with layered structure. <i>Journal of Solid State Chemistry</i> , 2012 , 192, 1-6 | 3.3 | 2 |
| 12 | Synthesis of PbMoO ₄ nanorods by a simple sonochemical method. <i>Journal of the Ceramic Society of Japan</i> , 2013 , 121, 745-748 | 1 | 2 |
| 11 | High pressure resonant X-ray emission studies of WO ₃ and hydrogenated WO ₃ | | 2 |
| 10 | Site-Specific Pressure-Driven Spin-Crossover in LuScFeO. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 8549-8553 | 6.4 | 2 |
| 9 | Perspective on the pressure-driven evolution of the lattice and electronic structure in perovskite and double perovskite. <i>Applied Physics Letters</i> , 2020 , 117, 080502 | 3.4 | 2 |
| 8 | NaBi(IO): An Alkali-Metal Bismuth Iodate with Intriguing One-Dimensional [BiIO] Chains and Pressure-Induced Structural Transition. <i>Inorganic Chemistry</i> , 2021 , 60, 2893-2898 | 5.1 | 2 |
| 7 | Controllable Preparation of PbMoO ₄ Nanorods and Nanowires by a Simple Sonochemical Method. <i>Journal of Cluster Science</i> , 1 | 3 | 2 |
| 6 | Reversible Mechanically Induced On/Off Photoluminescence in Hybrid Metal Halides. <i>Advanced Functional Materials</i> , 2022 , 32, 2110771 | 15.6 | 2 |
| 5 | Methodological Approach to the High-Pressure Synthesis of Nonmagnetic Li ₂ B ₄ +B ₇ +O ₆ Oxides. <i>Chemistry of Materials</i> , 2022 , 34, 186-196 | 9.6 | 1 |
| 4 | InPbSbS: A Stable Quaternary Chalcogenide with Low Thermal Conductivity. <i>Inorganic Chemistry</i> , 2021 , 60, 325-333 | 5.1 | 1 |
| 3 | Controllable Syntheses, Crystal Structure Evolution, and Photoluminescence of Polymorphic Zirconium Oxyfluorides. <i>Inorganic Chemistry</i> , 2021 , 60, 14382-14389 | 5.1 | 1 |
| 2 | Reentrant Negative Linear Compressibility in MIL-53(Al) over an Ultrawide Pressure Range. <i>Chemistry of Materials</i> , 2022 , 34, 2764-2770 | 9.6 | 0 |
| 1 | Pressure-Driven Sequential Lattice Collapse and Magnetic Collapse in Transition-Metal-Intercalated Compounds FeNbS. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 6348-6353 | 6.4 | |