

Yonggang Wang

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.

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	Methodological Approach to the High-Pressure Synthesis of Nonmagnetic $\text{Li}_2\text{B}_4\text{B}_6\text{O}_6$ Oxides. <i>Chemistry of Materials</i> , 2022 , 34, 186-196	9.6	1
86	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
85	Reversible Mechanically Induced On/Off Photoluminescence in Hybrid Metal Halides. <i>Advanced Functional Materials</i> , 2022 , 32, 2110771	15.6	2
84	Simultaneously achieving giant piezoelectricity and record coercive field enhancement in relaxor-based ferroelectric crystals.. <i>Nature Communications</i> , 2022 , 13, 2444	17.4	3
83	Pressure Controls the Structure and Nonlinear Optical Properties of Piezochromic CdTeMoO_6 . <i>Chemistry of Materials</i> , 2021 , 33, 2929-2936	9.6	5
82	Pavonite homologues as potential n-type thermoelectric materials: crystal structure and performance. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 1283-1294	7.8	6
81	InPbSbS : A Stable Quaternary Chalcogenide with Low Thermal Conductivity. <i>Inorganic Chemistry</i> , 2021 , 60, 325-333	5.1	1
80	A general approach to realizing perovskite nanocrystals with insulating metal sulfate shells. <i>Nanoscale</i> , 2021 , 13, 10329-10334	7.7	5
79	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
78	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	
77	Controllable Syntheses, Crystal Structure Evolution, and Photoluminescence of Polymorphic Zirconium Oxyfluorides. <i>Inorganic Chemistry</i> , 2021 , 60, 14382-14389	5.1	1
76	Tricolor Ho^{3+} Photoluminescence Enhancement from Site Symmetry Breakdown in Pyrochlore $\text{Ho}_2\text{Sn}_2\text{O}_7$ after Pressure Treatment. <i>Physical Review Letters</i> , 2020 , 125, 245701	7.4	4
75	Pressure-driven chemical lock-in structure and optical properties in Sillen compounds PbBiO_2X (X = Cl, Br, and I). <i>Journal of Materials Chemistry A</i> , 2020 , 8, 13610-13618	13	6
74	Broadband Photoluminescence in 2D Organic-Inorganic Hybrid Perovskites: $(\text{CHN})\text{PbBr}$ and $(\text{CHN})\text{PbI}$. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 2934-2940	6.4	35
73	Pressure responses of halide perovskites with various compositions, dimensionalities, and morphologies. <i>Matter and Radiation at Extremes</i> , 2020 , 5, 018201	4.7	35
72	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
71	Antiperovskites with Exceptional Functionalities. <i>Advanced Materials</i> , 2020 , 32, e1905007	24	40

70	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
69	A strong zero-phonon line red phosphor BaNbF ₇ :Mn ⁴⁺ for white LEDs. <i>Inorganic Chemistry Frontiers</i> , 2020 , 7, 3371-3378	6.8	8
68	Site-Specific Pressure-Driven Spin-Crossover in LuScFeO. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 8549-8553	6.4	2
67	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
66	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
65	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
64	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
63	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
62	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
61	Pressure-Driven Reversible Switching between n- and p-Type Conduction in Chalcopyrite CuFeS. <i>Journal of the American Chemical Society</i> , 2019 , 141, 505-510	16.4	19
60	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
59	Valence and spin states of iron are invisible in Earth's lower mantle. <i>Nature Communications</i> , 2018 , 9, 1284	17.4	25
58	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
57	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
56	Emergent superconductivity in an iron-based honeycomb lattice initiated by pressure-driven spin-crossover. <i>Nature Communications</i> , 2018 , 9, 1914	17.4	59
55	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
54	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
53	High-Pressure Band-Gap Engineering in Lead-Free Cs AgBiBr Double Perovskite. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 15969-15973	16.4	122

52	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
51	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
50	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
49	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
48	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
47	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
46	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
45	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
44	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
43	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
42	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
41	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
40	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
39	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
38	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
37	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
36	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
35	Elastic, magnetic and electronic properties of iridium phosphide Ir ₂ P. <i>Scientific Reports</i> , 2016 , 6, 21787	4.9	14

34	Hexafluorobenzene under Extreme Conditions. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 2854-8	3.4	8
33	High pressure studies of potassium perchlorate. <i>Chemical Physics Letters</i> , 2016 , 660, 37-42	2.5	9
32	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
31	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
30	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
29	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
28	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
27	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, 11144-9	16.4	226
26	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
25	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
24	Note: Loading method of molecular fluorine using x-ray induced chemistry. <i>Review of Scientific Instruments</i> , 2014 , 85, 086110	1.7	10
23	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
22	Carbon tetrachloride under extreme conditions. <i>Journal of Chemical Physics</i> , 2014 , 140, 194503	3.9	9
21	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
20	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
19	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
18	Selected-control hydrothermal growths of Ba and PbO crystals and orientated pressure-induced phase transition. <i>CrystEngComm</i> , 2013 , 15, 3513-3516	3.3	10
17	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

16	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
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	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
12	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
11	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
10	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
9	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
8	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
7	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
6	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
5	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
4	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
3	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
2	High pressure resonant X-ray emission studies of WO ₃ and hydrogenated WO ₃		2
1	Controllable Preparation of PbMoO ₄ Nanorods and Nanowires by a Simple Sonochemical Method. <i>Journal of Cluster Science</i> , 2007 , 19, 103-107	3	2