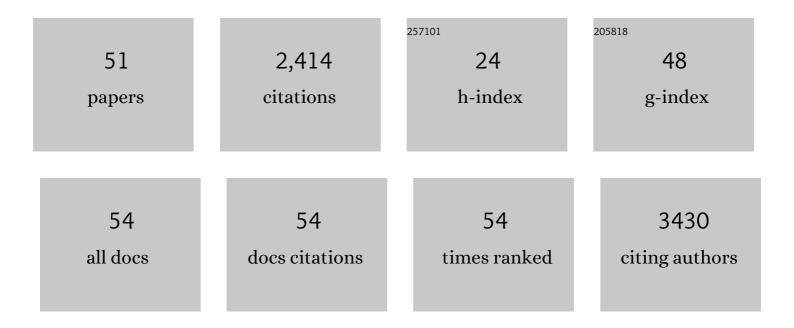
Junjie Wang

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Discovery of Electrides in Electronâ€Rich Nonâ€Electride Materials via Energy Modification of Interstitial Electrons. Advanced Functional Materials, 2022, 32, .	7.8	8
2	LaRuSi Electride Disrupts the Scaling Relations for Ammonia Synthesis. Chemistry of Materials, 2022, 34, 1677-1685.	3.2	19
3	Unique Catalytic Mechanism for Ru-Loaded Ternary Intermetallic Electrides for Ammonia Synthesis. Journal of the American Chemical Society, 2022, 144, 8683-8692.	6.6	38
4	Mining Knowledge from Crystal Structures: Oxidation States of Oxygen-Coordinated Metal Atoms in Ionic and Coordination Compounds. Journal of Chemical Information and Modeling, 2022, 62, 2332-2340.	2.5	4
5	Discovery of intrinsic two-dimensional antiferromagnets from transition-metal borides. Nanoscale, 2021, 13, 8254-8263.	2.8	31
6	Exploring structural, electronic, and mechanical properties of 2D hexagonal MBenes. Journal of Physics Condensed Matter, 2021, 33, 155503.	0.7	20
7	Crystal and electronic structure engineering of tin monoxide by external pressure. Journal of Advanced Ceramics, 2021, 10, 565-577.	8.9	11
8	B ₅ N ₃ and B ₇ N ₅ Monolayers with High Carrier Mobility and Excellent Optical Performance. Journal of Physical Chemistry Letters, 2021, 12, 4823-4832.	2.1	18
9	Electron-Deficient-Type Electride Ca ₅ Pb ₃ : Extension of Electride Chemical Space. Journal of the American Chemical Society, 2021, 143, 8821-8828.	6.6	22
10	High-Pressure Phase Diagram of the Ti–O System. Journal of Physical Chemistry Letters, 2021, 12, 5486-5493.	2.1	5
11	Prediction of allotropes of tellurium with molecular, one- and two-dimensional covalent nets for photofunctional applications. RSC Advances, 2021, 11, 29965-29975.	1.7	4
12	Phase diagram exploration of Tc–Al–B: from bulk Tc ₂ AlB ₂ to two-dimensional Tc ₂ B ₂ . Physical Chemistry Chemical Physics, 2021, 23, 22086-22095.	1.3	3
13	Theoretical exploration of quaternary hexagonal MAB phases and two-dimensional derivatives. Nanoscale, 2021, 13, 13208-13214.	2.8	16
14	Unraveling the size-dependent effect of Ru-based catalysts on Ammonia synthesis at mild conditions. Journal of Catalysis, 2021, 404, 501-511.	3.1	20
15	Hexagonal MBene (Hf ₂ BO ₂): A Promising Platform for the Electrocatalysis of Hydrogen Evolution Reaction. ACS Applied Materials & Interfaces, 2021, 13, 56131-56139.	4.0	20
16	Photocatalysis and hydrogen production from water solution. , 2020, , 555-577.		0
17	Computational Prediction of Boron-Based MAX Phases and MXene Derivatives. Chemistry of Materials, 2020, 32, 6947-6957.	3.2	89
18	Discovery of stable and intrinsic antiferromagnetic iron oxyhalide monolayers. Physical Chemistry Chemical Physics, 2020, 22, 11731-11739.	1.3	32

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#	Article	IF	CITATIONS
19	Discovery of hexagonal ternary phase Ti2InB2 and its evolution to layered boride TiB. Nature Communications, 2019, 10, 2284.	5.8	159
20	Novel MAB phases and insights into their exfoliation into 2D MBenes. Nanoscale, 2019, 11, 11305-11314.	2.8	120
21	Ternary inorganic electrides with mixed bonding. Physical Review B, 2019, 99, .	1.1	26
22	Chapter 2. Theoretical Design of PEC Materials. RSC Energy and Environment Series, 2018, , 29-61.	0.2	1
23	Ternary intermetallic LaCoSi as a catalyst for N2 activation. Nature Catalysis, 2018, 1, 178-185. Realization of Mott-insulating electrides in dimorphic < mml:math	16.1	221
24	xmlns:mml="http://www.w3.org/1998/Math/MathML"> <mml:mrow><mml:mi mathvariant="normal">Y<mml:msub><mml:mi mathvariant="normal">b<mml:mn>5</mml:mn></mml:mi </mml:msub><mml:mi mathvariant="normal">b<mml:msub><mml:mi ====================================</mml:mi </mml:msub></mml:mi </mml:mi </mml:mrow>	1.1	30
25	mathvariant="normal">b <mml:mn>3</mml:mn> . Physi Design of p-type transparent conducting oxides Sn ₂ GeO ₄ by an <i>ab initio</i> evolutionary structure search. Journal of Materials Chemistry C, 2018, 6, 11202-11208.	2.7	11
26	Evolutionary structure prediction of two-dimensional IrB ₁₄ : a promising gas sensor material. Journal of Materials Chemistry C, 2018, 6, 5803-5811.	2.7	13
27	A-Site Cation Bulk and Surface Diffusion in A-Site-Deficient BaZrO ₃ and SrZrO ₃ Perovskites. Journal of Physical Chemistry C, 2017, 121, 12220-12229.	1.5	11
28	Determination of Crystal Structure of Graphitic Carbon Nitride: Ab Initio Evolutionary Search and Experimental Validation. Chemistry of Materials, 2017, 29, 2694-2707.	3.2	83
29	Exploration of Stable Strontium Phosphide-Based Electrides: Theoretical Structure Prediction and Experimental Validation. Journal of the American Chemical Society, 2017, 139, 15668-15680.	6.6	84
30	Two-Dimensional GeSe as an Isostructural and Isoelectronic Analogue of Phosphorene: Sonication-Assisted Synthesis, Chemical Stability, and Optical Properties. Chemistry of Materials, 2017, 29, 8361-8368.	3.2	65
31	Tiered Electron Anions in Multiple Voids of LaScSi and Their Applications to Ammonia Synthesis. Advanced Materials, 2017, 29, 1700924.	11.1	85
32	Semimetallic Two-Dimensional TiB ₁₂ : Improved Stability and Electronic Properties Tunable by Biaxial Strain. Chemistry of Materials, 2017, 29, 5922-5930.	3.2	41
33	First Principles Evolutionary Search for New Electrides along the Dimensionality of Anionic Electrons. Journal of Computer Chemistry Japan, 2017, 16, 135-138.	0.0	6
34	Surfaceâ€Plasmonâ€Enhanced Photodriven CO ₂ Reduction Catalyzed by Metal–Organicâ€Frameworkâ€Derived Iron Nanoparticles Encapsulated by Ultrathin Carbon Layers. Advanced Materials, 2016, 28, 3703-3710.	11.1	300
35	Mixed Valence Tin Oxides as Novel van der <i>W</i> aals Materials: Theoretical Predictions and Potential Applications. Advanced Energy Materials, 2016, 6, 1501190.	10.2	79
36	Mesoporous palladium–copper bimetallic electrodes for selective electrocatalytic reduction of aqueous CO ₂ to CO. Journal of Materials Chemistry A, 2016, 4, 4776-4782.	5.2	115

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#	Article	IF	CITATIONS
37	Photocatalytic Water Splitting under Visible Light by Mixed-Valence Sn ₃ O ₄ . ACS Applied Materials & Interfaces, 2014, 6, 3790-3793.	4.0	148
38	Germanium Growth Orientation on SrTiO3 (001) 2 × 1 Surface: Role of Surface Reduction. Journal of Physical Chemistry C, 2013, 117, 9887-9894.	1.5	1
39	Germanium Adsorption and Initial Growth on SrTiO ₃ (001) Surface: A First-Principles Investigation. Journal of Physical Chemistry C, 2011, 115, 22893-22900.	1.5	7
40	Influence of laser deposition patterns on part distortion, interior quality and mechanical properties by laser solid forming (LSF). Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 1094-1104.	2.6	65
41	The rate-limiting step in the thermal oxidation of silicon carbide. Scripta Materialia, 2010, 62, 654-657.	2.6	12
42	Mechanics and energy analysis on molten pool spreading during laser solid forming. Applied Surface Science, 2010, 256, 4612-4620.	3.1	37
43	Surface relaxation and oxygen adsorption behavior of different SiC polytypes: a first-principles study. Journal of Physics Condensed Matter, 2010, 22, 265003.	0.7	22
44	Crystal structure and elastic properties of ZrB compared with ZrB2: A first-principles study. Computational Materials Science, 2010, 49, 814-819. (111) and smillimath	1.4	79
45	xmlns:mml="http://www.w3.org/1998/Math/MathML"		