

Xiaohui Yu

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	High-Temperature Superconducting Phase in Clathrate Calcium Hydride $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{CaH} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 6 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 215 \langle \text{mml:mn} \rangle \text{Å}$ at a Pressure of 172 GPa. <i>Physical Review Letters</i> , 2022, 128, 167001.	7.8	149
2	Splash-Resistant and Light-Weight Silk-Sheathed Wires for Textile Electronics. <i>Nano Letters</i> , 2018, 18, 7085-7091.	9.1	98
3	Ultrastrong Boron Frameworks in ZrB_{12} : A Highway for Electron Conducting. <i>Advanced Materials</i> , 2017, 29, 1604003.	21.0	71
4	Encapsulation kinetics and dynamics of carbon monoxide in clathrate hydrate. <i>Nature Communications</i> , 2014, 5, 4128.	12.8	62
5	Synthesis, Hardness, and Electronic Properties of Stoichiometric VN and CrN. <i>Crystal Growth and Design</i> , 2016, 16, 351-358.	3.0	50
6	Crystal structure and encapsulation dynamics of ice II-structured neon hydrate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 10456-10461.	7.1	36
7	Robust Interlayer Exciton in $\text{WS}_2/\text{MoSe}_2$ van der Waals Heterostructure under High Pressure. <i>Nano Letters</i> , 2021, 21, 8035-8042.	9.1	30
8	Synthesis of Onion-Like Î-MoN Catalyst for Selective Hydrogenation. <i>Journal of Physical Chemistry C</i> , 2017, 121, 19451-19460.	3.1	29
9	Our research progress in heteroaggregation and homoaggregation of organic π -conjugated systems. <i>Aggregate</i> , 2021, 2, e35.	9.9	28
10	Strain stiffening, high load-invariant hardness, and electronic anomalies of boron phosphide under pressure. <i>Physical Review B</i> , 2020, 101, .	3.2	24
11	Monoclinic $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{EuSn} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 1$: A Novel High-Pressure Network Structure. <i>Physical Review Letters</i> , 2021, 126, 155701.	7.8	24
12	Anthocyanin composition and expression analysis of anthocyanin biosynthetic genes in kidney bean pod. <i>Plant Physiology and Biochemistry</i> , 2015, 97, 304-312.	5.8	22
13	The tomato floral homeotic protein FBP1-like gene, SIGLO1, plays key roles in petal and stamen development. <i>Scientific Reports</i> , 2016, 6, 20454.	3.3	22
14	High Pressure Phase-Transformation Induced Texture Evolution and Strengthening in Zirconium Metal: Experiment and Modeling. <i>Scientific Reports</i> , 2015, 5, 12552.	3.3	21
15	Electronic structures and mechanical properties of $\text{Al}(111)/\text{ZrB}_2(0001)$ heterojunctions from first-principles calculation. <i>Molecular Physics</i> , 2015, 113, 1794-1801.	1.7	21
16	Silencing of SIHB2 Improves Drought, Salt Stress Tolerance, and Induces Stress-Related Gene Expression in Tomato. <i>Journal of Plant Growth Regulation</i> , 2017, 36, 578-589.	5.1	19
17	Double π -Extended Helicene Derivatives Containing Pentagonal Rings: Synthesis, Crystal Analyses, and Photophysics. <i>Journal of Organic Chemistry</i> , 2021, 86, 17535-17542.	3.2	19
18	Unusual Mott transition in multiferroic PbCrO_3 . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 15320-15325.	7.1	18

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19	Molecular Characterization of Nine Tissue-Specific or Stress-Responsive Genes of Histone Deacetylase in Tomato (<i>Solanum lycopersicum</i>). <i>Journal of Plant Growth Regulation</i> , 2017, 36, 566-577.	5.1	16
20	Ab Initio Studies on the Clathrate Hydrates of Some Nitrogen- and Sulfur-Containing Gases. <i>Journal of Physical Chemistry A</i> , 2017, 121, 2620-2626.	2.5	16
21	Dimensional crossover tuned by pressure in layered magnetic NiPS ₃ . <i>Science China: Physics, Mechanics and Astronomy</i> , 2021, 64, 1.	5.1	16
22	Elastic, magnetic and electronic properties of iridium phosphide Ir ₂ P. <i>Scientific Reports</i> , 2016, 6, 21787.	3.3	15
23	Grand Canonical Monte Carlo Simulations on Phase Equilibria of Methane, Carbon Dioxide, and Their Mixture Hydrates. <i>Journal of Physical Chemistry B</i> , 2018, 122, 9724-9737.	2.6	13
24	Superconducting phase diagrams of S-doped Se_2H under hydrostatic pressure. <i>Physical Review B</i> , 2020, 102, .	3.2	10
25	Magnetic and electric field dependent anisotropic magnetoelectric multiferroicity in $\text{Sm}_{12}\text{Mn}_9\text{O}$. <i>Physical Review B</i> , 2021, 104, .	3.2	9
26	Synthesis and Phase Behavior of Methane Hydrate in a Layered Double Hydroxide: An Experimental and Molecular Dynamics Simulation Study. <i>Journal of Physical Chemistry C</i> , 2021, 125, 7889-7897.	3.1	8
27	Pressure-driven electronic and structural phase transition in intrinsic magnetic topological insulator Mn_3Sb_8 . <i>Physical Review B</i> , 2021, 104, .	3.3	8
28	Engineering Interlayer Electron-Phonon Coupling in WS ₂ /BN Heterostructures. <i>Nano Letters</i> , 2022, 22, 2725-2733.	9.1	7
29	Magnetic origin of phase stability in cubic $\hat{\Gamma}_3$ -MoN. <i>Applied Physics Letters</i> , 2018, 113, 221901.	3.3	6
30	Physical realization of topological Roman surface by spin-induced ferroelectric polarization in cubic lattice. <i>Nature Communications</i> , 2022, 13, 2373.	12.8	6
31	Phase Stability and Compressibility of 3R-MoN ₂ at High Pressure. <i>Scientific Reports</i> , 2019, 9, 10524.	3.3	5
32	High-Pressure Synthesis of Two Polymorphic HgMnO ₃ Phases and Distinct Magnetism from 2D to 3D. <i>Inorganic Chemistry</i> , 2020, 59, 3887-3893.	4.0	5
33	Superconductivity in the van der Waals crystal SnS_2 up to 105 GPa. <i>Physical Review B</i> , 2022, 105, .	3.2	5
34	Improper multiferroiclike transition in a metal. <i>Physical Review B</i> , 2022, 105, .	3.2	4
35	Stoichiometric $\hat{\Gamma}$ -NbN: The Most Incompressible Cubic Transition Metal Mononitride. <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, 1700063.	1.5	3
36	The discovery of a superhard P-type transparent semiconductor: Al _{2.69} B ₅₀ . <i>Materials Horizons</i> , 2022, 9, 748-755.	12.2	3

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37	Compressive-tensile deformation of nanocrystalline nickel at high pressure and temperature conditions. <i>Applied Physics Letters</i> , 2013, 103, 043118.	3.3	2
38	Pressure-induced shift of T _c and structural transition in $\text{Ca}_{0.34}\text{Na}_{0.66}\text{Fe}_2\text{As}_2$ -type pnictide superconductor. <i>AIP Advances</i> , 2016, 6, 075104.	1.3	2
39	Compressibility and thermoelasticity of CrN. <i>High Pressure Research</i> , 2020, 40, 423-433.	1.2	2
40	Enhancement of A-site Mn ³⁺ spin ordering by B-site Mn ⁴⁺ substitution in quadruple perovskite $\text{PbMn}_3\text{Cr}_3\text{MnO}_{12}$. <i>Applied Physics Letters</i> , 2021, 118, 262403.	3.3	1
41	Physiological, biochemical, and molecular differences in chloroplast synthesis between leaf and corolla of cabbage (<i>Brassica rapa</i> L. var. <i>chinensis</i>) and rapeseed (<i>Brassica napus</i> L.). <i>Plant Growth Regulation</i> , 2017, 82, 91-101.	3.4	0
42	Structure Determination, Mechanical Properties, Thermal Stability of Co_2MoB_4 and Fe_2MoB_4 . <i>Materials</i> , 2022, 15, 3031.	2.9	0