

# Xiaohui Yu

## List of Publications by Year in descending order

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42  
papers

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citations

471509

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times ranked

1279  
citing authors

#	ARTICLE	IF	CITATIONS
1	The discovery of a superhard P-type transparent semiconductor: Al <sub>2.69</sub> B <sub>50</sub> . Materials Horizons, 2022, 9, 748-755.	12.2	3
2	Superconductivity in the van der Waals crystal $\text{SnS}_2$ up to 105 GPa. Physical Review B, 2022, 105, .	7.8	149
3	Engineering Interlayer Electron-Phonon Coupling in WS <sub>2</sub> /BN Heterostructures. Nano Letters, 2022, 22, 2725-2733.	9.1	7
4	High-Temperature Superconducting Phase in Clathrate Calcium Hydride $\text{CaH}_6$ up to 215 ÅK at a Pressure of 172 ÅGPa. Physical Review Letters, 2022, 128, 167001.	7.8	149
5	Structure Determination, Mechanical Properties, Thermal Stability of Co <sub>2</sub> MoB <sub>4</sub> and Fe <sub>2</sub> MoB <sub>4</sub> . Materials, 2022, 15, 3031.	2.9	0
6	Physical realization of topological Roman surface by spin-induced ferroelectric polarization in cubic lattice. Nature Communications, 2022, 13, 2373.	12.8	6
7	Improper multiferroiclike transition in a metal. Physical Review B, 2022, 105, .	3.2	4
8	Our research progress in heteroaggregation and homoaggregation of organic $\pi$ -conjugated systems. Aggregate, 2021, 2, e35.	9.9	28
9	Monoclinic $\text{EuSn}_2$ : A Novel High-Pressure Network Structure. Physical Review Letters, 2021, 126, 155701.	7.8	149
10	Synthesis and Phase Behavior of Methane Hydrate in a Layered Double Hydroxide: An Experimental and Molecular Dynamics Simulation Study. Journal of Physical Chemistry C, 2021, 125, 7889-7897.	3.1	8
11	Enhancement of A-site Mn <sup>3+</sup> spin ordering by B-site Mn <sup>4+</sup> substitution in quadruple perovskite PbMn <sub>3</sub> Cr <sub>3</sub> MnO <sub>12</sub> . Applied Physics Letters, 2021, 118, 262403.	3.3	1
12	Magnetic and electric field dependent anisotropic magnetoelectric multiferroicity in $\text{SmMn}_9\text{O}_{12}$ . Physical Review B, 2021, 104, .	3.2	9
13	Dimensional crossover tuned by pressure in layered magnetic NiPS <sub>3</sub> . Science China: Physics, Mechanics and Astronomy, 2021, 64, 1.	5.1	16
14	Double $\pi$ -Extended Helicene Derivatives Containing Pentagonal Rings: Synthesis, Crystal Analyses, and Photophysics. Journal of Organic Chemistry, 2021, 86, 17535-17542.	3.2	19
15	Robust Interlayer Exciton in WS <sub>2</sub> /MoSe <sub>2</sub> van der Waals Heterostructure under High Pressure. Nano Letters, 2021, 21, 8035-8042.	9.1	30
16	Pressure-driven electronic and structural phase transition in intrinsic magnetic topological insulator $\text{Mn}_2\text{Sb}$ . Physical Review B, 2021, 104, .	3.3	8
17	Superconducting phase diagrams of S-doped $\text{Hf}_2\text{Se}_2$ under hydrostatic pressure. Physical Review B, 2020, 102, .	3.2	10
18	High-Pressure Synthesis of Two Polymorphic HgMnO <sub>3</sub> Phases and Distinct Magnetism from 2D to 3D. Inorganic Chemistry, 2020, 59, 3887-3893.	4.0	5

#	ARTICLE	IF	CITATIONS
19	Compressibility and thermoelasticity of CrN. <i>High Pressure Research</i> , 2020, 40, 423-433.	1.2	2
20	Strain stiffening, high load-invariant hardness, and electronic anomalies of boron phosphide under pressure. <i>Physical Review B</i> , 2020, 101, .	3.2	24
21	Phase Stability and Compressibility of 3R-MoN <sub>2</sub> at High Pressure. <i>Scientific Reports</i> , 2019, 9, 10524.	3.3	5
22	Magnetic origin of phase stability in cubic $\hat{\Gamma}$ -MoN. <i>Applied Physics Letters</i> , 2018, 113, 221901.	3.3	6
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	Splash-Resistant and Light-Weight Silk-Sheathed Wires for Textile Electronics. <i>Nano Letters</i> , 2018, 18, 7085-7091.	9.1	98
25	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
26	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
27	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
28	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
29	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
30	Synthesis of Onion-Like $\hat{\Gamma}$ -MoN Catalyst for Selective Hydrogenation. <i>Journal of Physical Chemistry C</i> , 2017, 121, 19451-19460.	3.1	29
31	Ultrastrong Boron Frameworks in ZrB <sub>12</sub> : A Highway for Electron Conducting. <i>Advanced Materials</i> , 2017, 29, 1604003.	21.0	71
32	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
33	Pressure-induced shift of T <sub>c</sub> and structural transition in $\hat{\Gamma}$ -type pnictide superconductor Ca <sub>0.34</sub> Na <sub>0.66</sub> Fe <sub>2</sub> As <sub>2</sub> . <i>AIP Advances</i> , 2016, 6, 075104.	1.3	2
34	Elastic, magnetic and electronic properties of iridium phosphide Ir <sub>2</sub> P. <i>Scientific Reports</i> , 2016, 6, 21787.	3.3	15
35	Synthesis, Hardness, and Electronic Properties of Stoichiometric VN and CrN. <i>Crystal Growth and Design</i> , 2016, 16, 351-358.	3.0	50
36	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

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37	Electronic structures and mechanical properties of Al(111)/ZrB <sub>2</sub> (0001) heterojunctions from first-principles calculation. <i>Molecular Physics</i> , 2015, 113, 1794-1801.	1.7	21
38	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
39	Unusual Mott transition in multiferroic PbCrO <sub>3</sub> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 15320-15325.	7.1	18
40	Encapsulation kinetics and dynamics of carbon monoxide in clathrate hydrate. <i>Nature Communications</i> , 2014, 5, 4128.	12.8	62
41	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
42	Compressive-tensile deformation of nanocrystalline nickel at high pressure and temperature conditions. <i>Applied Physics Letters</i> , 2013, 103, 043118.	3.3	2