Ivan A Kruglov

List of Publications by Year
in descending order

26	1,256	430754	552653
papers	citations	18 h-index	26 g-index

28	28	28	971
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Broadband Optical Constants and Nonlinear Properties of SnS2 and SnSe2. Nanomaterials, 2022, 12, 141.	1.9	11
2	Topological phase singularities in atomically thin high-refractive-index materials. Nature Communications, 2022, 13, 2049.	5.8	43
3	Srâ€Doped Superionic Hydrogen Glass: Synthesis and Properties of SrH₂₂. Advanced Materials, 2022, 34, e2200924.	11.1	10
4	Novel Strongly Correlated Europium Superhydrides. Journal of Physical Chemistry Letters, 2021, 12, 32-40.	2.1	33
5	Synthesis of molecular metallic barium superhydride: pseudocubic BaH12. Nature Communications, 2021, 12, 273.	5.8	66
6	Superconductivity at 253â€¯K in lanthanumâ€“yttrium ternary hydrides. Materials Today, 2021, 48, 18-28.	8.3	119
7	Broadband Optical Properties of Atomically Thin PtS2 and PtSe2. Nanomaterials, 2021, 11, 3269.	1.9	13
8	Plasmonâ€“Polariton Modes in Fullerenes. Journal of Physical Chemistry Letters, 2021, 12, 11873-11877.	2.1	1
9	Search for stable cocrystals of energetic materials using the evolutionary algorithm USPEX. Physical Chemistry Chemical Physics, 2020, 22, 16822-16830.	1.3	21
10	Machine Learning for Optical Gas Sensing: A Leaky-Mode Humidity Sensor as Example. IEEE Sensors Journal, 2020, 20, 6954-6963.	2.4	24
11	Prediction and Synthesis of Dysprosium Hydride Phases at High Pressure. Inorganic Chemistry, 2020, 59, 5303-5312.	1.9	6
12	Superconductivity of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>LaH</mml:mi><mml:mn>10</mml:mn></mml:msub></mm and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>LaH</mml:mi><mml:mn>16</mml:mn></mml:msub></mm polyhydrides. Physical Review B, 2020, 101, .	1.1	62
13	On Distribution of Superconductivity in Metal Hydrides. Current Opinion in Solid State and Materials Science, 2020, 24, 100808.	5.6	104
14	Phase diagram of uranium fromab initiocalculations and machine learning. Physical Review B, 2019, 100, .	1.1	28
15	Synthesis of clathrate cerium superhydride CeH9 at 80-100 GPa with atomic hydrogen sublattice. Nature Communications, 2019, 10, 4453.	5.8	117
16	Boron monosulfide: Equation of state and pressure-induced phase transition. Journal of Applied Physics, 2018, 123, .	1.1	13
17	Iron Superhydrides FeH₅ and FeH₆: Stability, Electronic Properties, and Superconductivity. Journal of Physical Chemistry C, 2018, 122, 4731-4736.	1.5	48
18	Actinium Hydrides AcH₁₀, AcH₁₂, and AcH₁₆ as High-Temperature Conventional Superconductors. Journal of Physical Chemistry Letters, 2018, 9, 1920-1926.	2.1	100

#	Article	IF	Citations
19	High-Temperature Superconductivity in a Thâ€“H System under Pressure Conditions. ACS Applied Materials & Interfaces, 2018, 10, 43809-43816.	4.0	95
20	Uranium polyhydrides at moderate pressures: Prediction, synthesis, and expected superconductivity. Science Advances, 2018, 4, eaat9776.	4.7	82
21	Energy-free machine learning force field for aluminum. Scientific Reports, 2017, 7, 8512.	1.6	50
22	Refined phase diagram of the H-S system with high- Tc superconductivity. Physical Review B, 2017, 96, .	1.1	25
23	Machine learning scheme for fast extraction of chemically interpretable interatomic potentials. AIP Advances, 2016, 6, .	0.6	49
24	Hydrogen sulfide at high pressure: Change in stoichiometry. Physical Review B, 2016, 93, .	1.1	97
25	Monoclinic structure and electrical properties of metastable Sb₂Te₃and Bi_{0.4}Sb_{1.6}Te₃phases. Physica Status Solidi (B): Basic Research, 2015, 252, 267-273.	0.7	12
26	Superconductivity in bulk polycrystalline metastable phases of Sb2Te3 and Bi2Te3 quenched after high-pressureâ€“high-temperature treatment. Chemical Physics Letters, 2015, 631-632, 97-102.	1.2	20