

Yuanhui Sun

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

2,242
citations

623734

14
h-index

752698

20
g-index

20
all docs

20
docs citations

20
times ranked

4025
citing authors

#	ARTICLE	IF	CITATIONS
1	Open questions on the high-pressure chemistry of the noble gases. <i>Communications Chemistry</i> , 2022, 5, .	4.5	6
2	SiCP ₄ Monolayer with a Direct Band Gap and High Carrier Mobility for Photocatalytic Water Splitting. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 190-197.	4.6	16
3	Prediction of novel boron-carbon based clathrates. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 16884-16890.	2.8	7
4	Mechanism of Pressure-Driven Band Gap Evolutions in Lead-Free Halide Double Perovskites. <i>Journal of Physical Chemistry C</i> , 2022, 126, 10230-10236.	3.1	5
5	Phase transition pathway of hybrid halide perovskites under compression: Insights from first-principles calculations. <i>Physical Review Materials</i> , 2021, 5, .	2.4	6
6	Efficient and stable Ruddlesden-Popper perovskite solar cell with tailored interlayer molecular interaction. <i>Nature Photonics</i> , 2020, 14, 154-163.	31.4	443
7	Diverse electronic properties of 2D layered Se-containing materials composed of quasi-1D atomic chains. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 2122-2129.	2.8	10
8	Chemistry under high pressure. <i>Nature Reviews Chemistry</i> , 2020, 4, 508-527.	30.2	117
9	New Polymorphs of 2D Indium Selenide with Enhanced Electronic Properties. <i>Advanced Functional Materials</i> , 2020, 30, 2001920.	14.9	33
10	Bottom-up growth of homogeneous Moiré superlattices in bismuth oxychloride spiral nanosheets. <i>Nature Communications</i> , 2019, 10, 4472.	12.8	59
11	Switchable Out-of-Plane Polarization in 2D LiAlTe ₂ . <i>Advanced Electronic Materials</i> , 2019, 5, 1900089.	5.1	20
12	Atomically engineering activation sites onto metallic 1T-MoS ₂ catalysts for enhanced electrochemical hydrogen evolution. <i>Nature Communications</i> , 2019, 10, 982.	12.8	311
13	Ultrasensitive detection of miRNA with an antimonene-based surface plasmon resonance sensor. <i>Nature Communications</i> , 2019, 10, 28.	12.8	475
14	Two-Dimensional PC ₆ with Direct Band Gap and Anisotropic Carrier Mobility. <i>Journal of the American Chemical Society</i> , 2019, 141, 1599-1605.	13.7	144
15	InSe: a two-dimensional material with strong interlayer coupling. <i>Nanoscale</i> , 2018, 10, 7991-7998.	5.6	102
16	Nanoporous Sulfur-Doped Copper Oxide (Cu ₂ O _x S) for Overall Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 745-752.	8.0	83
17	Experimental Identification of Critical Condition for Drastically Enhancing Thermoelectric Power Factor of Two-Dimensional Layered Materials. <i>Nano Letters</i> , 2018, 18, 7538-7545.	9.1	72
18	Rational design of new phases of tin monosulfide by first-principles structure searches. <i>Science China: Physics, Mechanics and Astronomy</i> , 2018, 61, 1.	5.1	15

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19	Cu ²⁺ In Halide Perovskite Solar Absorbers. Journal of the American Chemical Society, 2017, 139, 6718-6725.	13.7	316