

# Yuanhui Sun

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8608305/publications.pdf>

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	Ultrasensitive detection of miRNA with an antimonene-based surface plasmon resonance sensor. Nature Communications, 2019, 10, 28.	12.8	475
2	Efficient and stable Ruddlesden-Popper perovskite solar cell with tailored interlayer molecular interaction. Nature Photonics, 2020, 14, 154-163.	31.4	443
3	Cu-In Halide Perovskite Solar Absorbers. Journal of the American Chemical Society, 2017, 139, 6718-6725.	13.7	316
4	Atomically engineering activation sites onto metallic 1T-MoS <sub>2</sub> catalysts for enhanced electrochemical hydrogen evolution. Nature Communications, 2019, 10, 982.	12.8	311
5	Two-Dimensional PC <sub>6</sub> with Direct Band Gap and Anisotropic Carrier Mobility. Journal of the American Chemical Society, 2019, 141, 1599-1605.	13.7	144
6	Chemistry under high pressure. Nature Reviews Chemistry, 2020, 4, 508-527.	30.2	117
7	InSe: a two-dimensional material with strong interlayer coupling. Nanoscale, 2018, 10, 7991-7998.	5.6	102
8	Nanoporous Sulfur-Doped Copper Oxide (Cu <sub>2</sub> O <sub>x</sub> S) for Overall Water Splitting. ACS Applied Materials & Interfaces, 2018, 10, 745-752.	8.0	83
9	Experimental Identification of Critical Condition for Drastically Enhancing Thermoelectric Power Factor of Two-Dimensional Layered Materials. Nano Letters, 2018, 18, 7538-7545.	9.1	72
10	Bottom-up growth of homogeneous Moiré superlattices in bismuth oxychloride spiral nanosheets. Nature Communications, 2019, 10, 4472.	12.8	59
11	New Polymorphs of 2D Indium Selenide with Enhanced Electronic Properties. Advanced Functional Materials, 2020, 30, 2001920.	14.9	33
12	Switchable Out-of-Plane Polarization in 2D LiAlTe <sub>2</sub> . Advanced Electronic Materials, 2019, 5, 1900089.	5.1	20
13	SiCP <sub>4</sub> Monolayer with a Direct Band Gap and High Carrier Mobility for Photocatalytic Water Splitting. Journal of Physical Chemistry Letters, 2022, 13, 190-197.	4.6	16
14	Rational design of new phases of tin monosulfide by first-principles structure searches. Science China: Physics, Mechanics and Astronomy, 2018, 61, 1.	5.1	15
15	Diverse electronic properties of 2D layered Se-containing materials composed of quasi-1D atomic chains. Physical Chemistry Chemical Physics, 2020, 22, 2122-2129.	2.8	10
16	Prediction of novel boron-carbon based clathrates. Physical Chemistry Chemical Physics, 2022, 24, 16884-16890.	2.8	7
17	Phase transition pathway of hybrid halide perovskites under compression: Insights from first-principles calculations. Physical Review Materials, 2021, 5, .	2.4	6
18	Open questions on the high-pressure chemistry of the noble gases. Communications Chemistry, 2022, 5, .	4.5	6

#	ARTICLE	IF	CITATIONS
19	Mechanism of Pressure-Driven Band Gap Evolutions in Lead-Free Halide Double Perovskites. Journal of Physical Chemistry C, 2022, 126, 10230-10236.	3.1	5