

Sheng Hu

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

2,993
citations

471509

17
h-index

752698

20
g-index

21
all docs

21
docs citations

21
times ranked

4415
citing authors

#	ARTICLE	IF	CITATIONS
1	Out-of-equilibrium criticalities in graphene superlattices. <i>Science</i> , 2022, 375, 430-433.	12.6	34
2	Cation-Gated Ion Transport at Nanometer Scale for Tunable Power Generation. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 2625-2631.	4.6	3
3	Visualizing Piezoelectricity on 2D Crystals Nanobubbles. <i>Advanced Functional Materials</i> , 2021, 31, 2005053.	14.9	23
4	Creating Fluorine-Doped MoS ₂ Edge Electrodes with Enhanced Hydrogen Evolution Activity. <i>Small Methods</i> , 2021, 5, e2100612.	8.6	44
5	One-Atom-Thick Crystals as Emerging Proton Sieves. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 12376-12383.	4.6	5
6	Blue Energy Conversion from Holey-Graphene-like Membranes with a High Density of Subnanometer Pores. <i>Nano Letters</i> , 2020, 20, 8634-8639.	9.1	42
7	Indirect Excitons and Trions in MoSe ₂ /WSe ₂ van der Waals Heterostructures. <i>Nano Letters</i> , 2020, 20, 1869-1875.	9.1	63
8	Colossal infrared and terahertz magneto-optical activity in a two-dimensional Dirac material. <i>Nature Nanotechnology</i> , 2019, 14, 756-761.	31.5	27
9	Complete steric exclusion of ions and proton transport through confined monolayer water. <i>Science</i> , 2019, 363, 145-148.	12.6	207
10	Giant photoeffect in proton transport through graphene membranes. <i>Nature Nanotechnology</i> , 2018, 13, 300-303.	31.5	59
11	Transport of hydrogen isotopes through interlayer spacing in van der Waals crystals. <i>Nature Nanotechnology</i> , 2018, 13, 468-472.	31.5	45
12	Indirect excitons in van der Waals heterostructures at room temperature. <i>Nature Communications</i> , 2018, 9, 1895.	12.8	130
13	Anomalously low dielectric constant of confined water. <i>Science</i> , 2018, 360, 1339-1342.	12.6	627
14	Ballistic molecular transport through two-dimensional channels. <i>Nature</i> , 2018, 558, 420-424.	27.8	139
15	Edge currents shunt the insulating bulk in gapped graphene. <i>Nature Communications</i> , 2017, 8, 14552.	12.8	77
16	Scalable and efficient separation of hydrogen isotopes using graphene-based electrochemical pumping. <i>Nature Communications</i> , 2017, 8, 15215.	12.8	119
17	Size effect in ion transport through angstrom-scale slits. <i>Science</i> , 2017, 358, 511-513.	12.6	418
18	Sieving hydrogen isotopes through two-dimensional crystals. <i>Science</i> , 2016, 351, 68-70.	12.6	247

#	ARTICLE	IF	CITATIONS
19	Proton transport through one-atom-thick crystals. <i>Nature</i> , 2014, 516, 227-230.	27.8	668
20	Unintentional doping induced splitting of G peak in bilayer graphene. <i>Applied Physics Letters</i> , 2011, 99, 233110.	3.3	16