

Rui Xu

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Visualization of Strain-Engineered Nanopattern in Center-Confined Mesoscopic WS ₂ Monolayer Flakes. <i>Journal of Physical Chemistry C</i> , 2022, 126, 7184-7192.	3.1	3
2	Nickel-Based Single-Atom Catalyst toward Triiodide Reduction Reaction in Hybrid Photovoltaics. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 4256-4261.	6.7	8
3	Strain-Engineered Rippling and Manipulation of Single-Layer WS ₂ by Atomic Force Microscopy. <i>Journal of Physical Chemistry C</i> , 2021, 125, 8696-8703.	3.1	9
4	Chemical Synthesis and Integration of Highly Conductive PdTe ₂ with Low-Dimensional Semiconductors for p-Type Transistors with Low Contact Barriers. <i>Advanced Materials</i> , 2021, 33, e2101150.	21.0	16
5	Epitaxial fabrication of AgTe monolayer on Ag(111) and the sequential growth of Te film. <i>Frontiers of Physics</i> , 2021, 16, 1.	5.0	0
6	Size-dependent strain-engineered nanostructures in MoS ₂ monolayer investigated by atomic force microscopy. <i>Nanotechnology</i> , 2021, 32, 465703.	2.6	8
7	Toplayer-dependent crystallographic orientation imaging in the bilayer two-dimensional materials with transverse shear microscopy. <i>Frontiers of Physics</i> , 2021, 16, 1.	5.0	5
8	Voltage- and Redox State-Triggered Oxygen Adatom Conductance Switch. <i>Journal of Physical Chemistry C</i> , 2021, 125, 26801-26807.	3.1	2
9	Unraveling the Charge States of Au Nanoclusters on an Oxygen-Rich Rutile TiO ₂ (110) Surface and Their Triboelectrification Overturn by nc-AFM and KPFM. <i>Journal of Physical Chemistry C</i> , 2021, 125, 27607-27614.	3.1	4
10	Real-space visualization of intercalated water phases at the hydrophobic graphene interface with atomic force microscopy. <i>Frontiers of Physics</i> , 2020, 15, 1.	5.0	8
11	Strain-induced hierarchical ripples in MoS ₂ layers investigated by atomic force microscopy. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	15
12	Wafer-Scale Growth of Pristine and Doped Monolayer MoS ₂ Films for Electronic Device Applications. <i>Inorganic Chemistry</i> , 2020, 59, 17356-17363.	4.0	14
13	Local probe of the interlayer coupling strength of few-layers SnSe by contact-resonance atomic force microscopy. <i>Frontiers of Physics</i> , 2020, 15, 1.	5.0	8
14	Atomically Asymmetric Inversion Scales up to Mesoscopic Single-Crystal Monolayer Flakes. <i>ACS Nano</i> , 2020, 14, 13834-13840.	14.6	11
15	Electrically Induced Manipulation of the Au Nanoclusters on the Oxidized Rutile TiO ₂ (110) Surface by Atomic Force Microscopy at 78 K. <i>Journal of Physical Chemistry C</i> , 2020, 124, 28562-28568.	3.1	2
16	Novel Type of Synaptic Transistors Based on a Ferroelectric Semiconductor Channel. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 24920-24928.	8.0	41
17	CoSe ₂ /porous carbon shell composites as high-performance catalysts toward tri-iodide reduction in dye-sensitized solar cells. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 2550-2557.	6.0	16
18	Characterization and Reversible Migration of Subsurface Hydrogen on Rutile TiO ₂ (110) by Atomic Force Microscopy at 78 K. <i>Journal of Physical Chemistry C</i> , 2019, 123, 22595-22602.	3.1	7

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19	Shear anisotropy-driven crystallographic orientation imaging in flexible hexagonal two-dimensional atomic crystals. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	18
20	Precise Organization of Metal and Metal Oxide Nanoclusters into Arbitrary Patterns on DNA Origami. <i>Journal of the American Chemical Society</i> , 2019, 141, 17968-17972.	13.7	59
21	Electrical Engineering of the Oxygen Adatom and Vacancy on Rutile TiO ₂ (110) by Atomic Force Microscopy at 78 K. <i>Journal of Physical Chemistry C</i> , 2019, 123, 28852-28858.	3.1	7
22	Epitaxial Synthesis of Monolayer PtSe ₂ Single Crystal on MoSe ₂ with Strong Interlayer Coupling. <i>ACS Nano</i> , 2019, 13, 10929-10938.	14.6	72
23	Interfacial water intercalation-induced metal-insulator transition in NbS ₂ /BN heterostructure. <i>Nanotechnology</i> , 2019, 30, 205702.	2.6	8
24	Nanoscratch on single-layer MoS ₂ crystal by atomic force microscopy: semi-circular to periodical zigzag cracks. <i>Materials Research Express</i> , 2019, 6, 025048.	1.6	10
25	Local characterization of mobile charge carriers by two electrical AFM modes: multi-harmonic EFM versus sMIM. <i>Journal of Physics Communications</i> , 2018, 2, 025013.	1.2	10
26	High harmonic exploring on different materials in dynamic atomic force microscopy. <i>Science China Technological Sciences</i> , 2018, 61, 446-452.	4.0	9
27	Nanoscale charge transfer and diffusion at the MoS ₂ /SiO ₂ interface by atomic force microscopy: contact injection versus triboelectrification. <i>Nanotechnology</i> , 2018, 29, 355701.	2.6	16