

# Rui Xu

## List of Publications by Year in descending order

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27  
papers

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citations

933447

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h-index

794594

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all docs

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docs citations

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times ranked

653  
citing authors

#	ARTICLE	IF	CITATIONS
1	Epitaxial Synthesis of Monolayer PtSe <sub>2</sub> Single Crystal on MoSe <sub>2</sub> with Strong Interlayer Coupling. ACS Nano, 2019, 13, 10929-10938.	14.6	72
2	Precise Organization of Metal and Metal Oxide Nanoclusters into Arbitrary Patterns on DNA Origami. Journal of the American Chemical Society, 2019, 141, 17968-17972.	13.7	59
3	Novel Type of Synaptic Transistors Based on a Ferroelectric Semiconductor Channel. ACS Applied Materials & Interfaces, 2020, 12, 24920-24928.	8.0	41
4	Shear anisotropy-driven crystallographic orientation imaging in flexible hexagonal two-dimensional atomic crystals. Applied Physics Letters, 2019, 115, .	3.3	18
5	Nanoscale charge transfer and diffusion at the MoS <sub>2</sub> /SiO <sub>2</sub> interface by atomic force microscopy: contact injection versus triboelectrification. Nanotechnology, 2018, 29, 355701.	2.6	16
6	CoSe <sub>2</sub> /porous carbon shell composites as high-performance catalysts toward tri-iodide reduction in dye-sensitized solar cells. Inorganic Chemistry Frontiers, 2019, 6, 2550-2557.	6.0	16
7	Chemical Synthesis and Integration of Highly Conductive PdTe <sub>2</sub> with Low-Dimensional Semiconductors for p-Type Transistors with Low Contact Barriers. Advanced Materials, 2021, 33, e2101150.	21.0	16
8	Strain-induced hierarchical ripples in MoS <sub>2</sub> layers investigated by atomic force microscopy. Applied Physics Letters, 2020, 117, .	3.3	15
9	Wafer-Scale Growth of Pristine and Doped Monolayer MoS <sub>2</sub> Films for Electronic Device Applications. Inorganic Chemistry, 2020, 59, 17356-17363.	4.0	14
10	Atomically Asymmetric Inversion Scales up to Mesoscopic Single-Crystal Monolayer Flakes. ACS Nano, 2020, 14, 13834-13840.	14.6	11
11	Local characterization of mobile charge carriers by two electrical AFM modes: multi-harmonic EFM versus sMIM. Journal of Physics Communications, 2018, 2, 025013.	1.2	10
12	Nanoscratch on single-layer MoS <sub>2</sub> crystal by atomic force microscopy: semi-circular to periodical zigzag cracks. Materials Research Express, 2019, 6, 025048.	1.6	10
13	High harmonic exploring on different materials in dynamic atomic force microscopy. Science China Technological Sciences, 2018, 61, 446-452.	4.0	9
14	Strain-Engineered Rippling and Manipulation of Single-Layer WS <sub>2</sub> by Atomic Force Microscopy. Journal of Physical Chemistry C, 2021, 125, 8696-8703.	3.1	9
15	Interfacial water intercalation-induced metal-insulator transition in NbS <sub>2</sub> /BN heterostructure. Nanotechnology, 2019, 30, 205702.	2.6	8
16	Real-space visualization of intercalated water phases at the hydrophobic graphene interface with atomic force microscopy. Frontiers of Physics, 2020, 15, 1.	5.0	8
17	Local probe of the interlayer coupling strength of few-layers SnSe by contact-resonance atomic force microscopy. Frontiers of Physics, 2020, 15, 1.	5.0	8
18	Nickel-Based Single-Atom Catalyst toward Triiodide Reduction Reaction in Hybrid Photovoltaics. ACS Sustainable Chemistry and Engineering, 2021, 9, 4256-4261.	6.7	8

#	ARTICLE	IF	CITATIONS
19	Size-dependent strain-engineered nanostructures in MoS <sub>2</sub> monolayer investigated by atomic force microscopy. Nanotechnology, 2021, 32, 465703.	2.6	8
20	Characterization and Reversible Migration of Subsurface Hydrogen on Rutile TiO <sub>2</sub> (110) by Atomic Force Microscopy at 78 K. Journal of Physical Chemistry C, 2019, 123, 22595-22602.	3.1	7
21	Electrical Engineering of the Oxygen Adatom and Vacancy on Rutile TiO <sub>2</sub> (110) by Atomic Force Microscopy at 78 K. Journal of Physical Chemistry C, 2019, 123, 28852-28858.	3.1	7
22	Toplayer-dependent crystallographic orientation imaging in the bilayer two-dimensional materials with transverse shear microscopy. Frontiers of Physics, 2021, 16, 1.	5.0	5
23	Unraveling the Charge States of Au Nanoclusters on an Oxygen-Rich Rutile TiO <sub>2</sub> (110) Surface and Their Triboelectrification Overturn by nc-AFM and KPFM. Journal of Physical Chemistry C, 2021, 125, 27607-27614.	3.1	4
24	Visualization of Strain-Engineered Nanopattern in Center-Confined Mesoscopic WS <sub>2</sub> Monolayer Flakes. Journal of Physical Chemistry C, 2022, 126, 7184-7192.	3.1	3
25	Electrically Induced Manipulation of the Au Nanoclusters on the Oxidized Rutile TiO <sub>2</sub> (110) Surface by Atomic Force Microscopy at 78 K. Journal of Physical Chemistry C, 2020, 124, 28562-28568.	3.1	2
26	Voltage- and Redox State-Triggered Oxygen Adatom Conductance Switch. Journal of Physical Chemistry C, 2021, 125, 26801-26807.	3.1	2
27	Epitaxial fabrication of AgTe monolayer on Ag(111) and the sequential growth of Te film. Frontiers of Physics, 2021, 16, 1.	5.0	0