

Feng-Chun Hsia

List of Publications by Year in descending order

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18
papers

798
citations

840776

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839539

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docs citations

18
times ranked

1542
citing authors

#	ARTICLE	IF	CITATIONS
1	Contribution of Capillary Adhesion to Friction at Macroscopic Solid-Solid Interfaces. <i>Physical Review Applied</i> , 2022, 17, .	3.8	13
2	Three-in-one cathode host based on Nb ₃ O ₈ /graphene superlattice heterostructures for high-performance Li-S batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 9952-9960.	10.3	22
3	Friction on Ice: How Temperature, Pressure, and Speed Control the Slipperiness of Ice. <i>Physical Review X</i> , 2021, 11, .	8.9	14
4	Tracing single asperity wear in relation to macroscale friction during running-in. <i>Tribology International</i> , 2021, 162, 107108.	5.9	7
5	Rougher is more slippery: How adhesive friction decreases with increasing surface roughness due to the suppression of capillary adhesion. <i>Physical Review Research</i> , 2021, 3, .	3.6	21
6	Semiconductor nanochannels in metallic carbon nanotubes by thermomechanical chirality alteration. <i>Science</i> , 2021, 374, 1616-1620.	12.6	32
7	Wear particle dynamics drive the difference between repeated and non-repeated reciprocated sliding. <i>Tribology International</i> , 2020, 142, 105983.	5.9	19
8	Electrical conduction and field emission of a single-crystalline Gd ₄ Si ₂ nanowire. <i>Nanoscale</i> , 2020, 12, 18263-18268.	5.6	1
9	A controllable and efficient method for the fabrication of a single HfC nanowire field-emission point electron source aided by low keV FIB milling. <i>Nanoscale</i> , 2020, 12, 16770-16774.	5.6	12
10	CoNiFe Layered Double Hydroxide/RuO _{2.1} Nanosheet Superlattice as Carbon-Free Electrocatalysts for Water Splitting and Li-O ₂ Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 33083-33093.	8.0	47
11	Intrinsic and Defect-Related Elastic Moduli of Boron Nitride Nanotubes As Revealed by <i>in Situ</i> Transmission Electron Microscopy. <i>Nano Letters</i> , 2019, 19, 4974-4980.	9.1	8
12	Realization and direct observation of five normal and parametric modes in silicon nanowire resonators by <i>in situ</i> transmission electron microscopy. <i>Nanoscale Advances</i> , 2019, 1, 1784-1790.	4.6	4
13	Tunable Mechanical and Electrical Properties of Coaxial BN Nanotubes. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019, 13, 1800576.	2.4	3
14	Mesoscopic physical removal of material using sliding nano-diamond contacts. <i>Scientific Reports</i> , 2018, 8, 2994.	3.3	30
15	Caging tin oxide in three-dimensional graphene networks for superior volumetric lithium storage. <i>Nature Communications</i> , 2018, 9, 402.	12.8	227
16	Ultrahigh-performance transparent conductive films of carbon-welded isolated single-wall carbon nanotubes. <i>Science Advances</i> , 2018, 4, eaap9264.	10.3	178
17	Chirality transitions and transport properties of individual few-walled carbon nanotubes as revealed by <i>in situ</i> TEM probing. <i>Ultramicroscopy</i> , 2018, 194, 108-116.	1.9	9
18	Mechanical Properties of Si Nanowires as Revealed by <i>in Situ</i> Transmission Electron Microscopy and Molecular Dynamics Simulations. <i>Nano Letters</i> , 2012, 12, 1898-1904.	9.1	151