

Wei Xue

List of Publications by Year in descending order

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33
papers

540
citations

759233

12
h-index

642732

23
g-index

33
all docs

33
docs citations

33
times ranked

561
citing authors

#	ARTICLE	IF	CITATIONS
1	Friction and wear characteristics modification via laser surface textured grooves. <i>Surface Engineering</i> , 2021, 37, 658-668.	2.2	6
2	Theoretical investigations of permeability and selectivity of Pd-Cu and Pd-Ni membranes for hydrogen separation. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 23715-23722.	7.1	19
3	Drag reduction effect of ultraviolet laser-fabricated superhydrophobic surface. <i>Surface Engineering</i> , 2020, 36, 1307-1314.	2.2	12
4	Atomic-scale investigations of enhanced hydrogen separation performance from doping boron and nitrogen in graphdiyne membrane. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 28893-28902.	7.1	21
5	Hypergyrating Droplets Generated on a Selective Laser-Textured Heterogeneous Wettability Surface. <i>Langmuir</i> , 2020, 36, 8123-8128.	3.5	5
6	Picosecond Laser-Induced Hierarchical Periodic Near- and Deep-Subwavelength Ripples on Stainless-Steel Surfaces. <i>Nanomaterials</i> , 2020, 10, 62.	4.1	6
7	Picosecond Laser-Textured Stainless Steel Superhydrophobic Surface with an Antibacterial Adhesion Property. <i>Langmuir</i> , 2019, 35, 11414-11421.	3.5	82
8	Lithiation-Induced Structural Rearrangement and Stress Change in SiCO-Derived Porous Carbon: A First-Principles Study. <i>Journal of Physical Chemistry C</i> , 2019, 123, 19315-19321.	3.1	2
9	Insight into silicon-carbon multilayer films as anode materials for lithium-ion batteries: A combined experimental and first principles study. <i>Acta Materialia</i> , 2019, 178, 173-178.	7.9	29
10	Laser Sintering of TiO ₂ Films for Flexible Dye-Sensitized Solar Cells. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 823.	2.5	11
11	Femtosecond Laser Fabricated Elastomeric Superhydrophobic Surface with Stretching-Enhanced Water Repellency. <i>Nanoscale Research Letters</i> , 2019, 14, 333.	5.7	27
12	Ultraviolet Laser Patterning of Fluorine-Doped Tin Oxide with Different Radiation Directions. <i>Journal of Russian Laser Research</i> , 2019, 40, 581-589.	0.6	1
13	A Multisensor Fusion Method for Tool Condition Monitoring in Milling. <i>Sensors</i> , 2018, 18, 3866.	3.8	65
14	Tunable Bubble Assembling on a Hybrid Superhydrophobic-Superhydrophilic Surface Fabricated by Selective Laser Texturing. <i>Langmuir</i> , 2018, 34, 13203-13209.	3.5	14
15	Large-scale molecular dynamics modeling of boron-doped amorphous SiCO ceramics. <i>Journal of Molecular Modeling</i> , 2017, 23, 178.	1.8	4
16	First-principles calculation of lithium insertion into homogeneous a-SiC ₂ /5O ₆ /5as high performance anode. <i>RSC Advances</i> , 2017, 7, 30559-30563.	3.6	0
17	Modeling of amorphous SiC _x O ₆ /5 by classical molecular dynamics and first principles calculations. <i>Scientific Reports</i> , 2017, 7, 42705.	3.3	7
18	Numerical Control Machine Tool Fault Diagnosis Using Hybrid Stationary Subspace Analysis and Least Squares Support Vector Machine with a Single Sensor. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 346.	2.5	19

#	ARTICLE	IF	CITATIONS
19	Effect of carbon segregation on performance of inhomogeneous SiCyO6/5 as anode materials for lithium-ion battery: A first-principles study. Journal of Power Sources, 2016, 334, 39-43.	7.8	27
20	Atomic investigation on reversible lithium storage in amorphous silicon oxycarbide as a high power anode material. Journal of Materials Chemistry A, 2016, 4, 12328-12333.	10.3	54
21	Effect of carbon content on the structure and electronic properties of silicon oxycarbide anodes for lithium-ion batteries: a first-principles study. Journal of Materials Chemistry A, 2015, 3, 5067-5071.	10.3	75
22	Investigation on high temperature fracture properties of amorphous silicon dioxide by large-scale atomistic simulations. Journal of Materials Science: Materials in Electronics, 2013, 24, 1575-1579.	2.2	3
23	Numerical investigation into the nanostructure and mechanical properties of amorphous SiBCN ceramics. RSC Advances, 2013, 3, 14458.	3.6	12
24	Deposition of Low Stress Silicon Nitride Thin Film and Its Application in Surface Micromachining Device Structures. Advances in Materials Science and Engineering, 2013, 2013, 1-4.	1.8	7
25	Intelligent Detector of Internal Combustion Engine Cylinder Pressure and Sensitivity Temperature Coefficient Compensation. Advances in Materials Science and Engineering, 2013, 2013, 1-6.	1.8	0
26	Effects of BN content on the structural and mechanical properties of a-SiBN ceramics. International Journal of Materials Research, 2013, 104, 162-167.	0.3	0
27	Object identification on car seat based on rough sets. , 2011, , .		3
28	The Effects of Thermal Loading on the Mechanical Properties of Interfaces of Dissimilar Materials by Nanoindentation Simulations. Journal of Electronic Packaging, Transactions of the ASME, 2011, 133, .	1.8	0
29	Effects of temperature and strain rate on fracture properties of amorphous silicon nitride. Journal of Materials Science: Materials in Electronics, 2011, 22, 1346-1349.	2.2	5
30	Atomistic Investigation on the Effects of Thermal Loading on Interfacial Adhesion of Dissimilar Materials. Journal of Adhesion Science and Technology, 2011, 25, 1539-1548.	2.6	1
31	Data acquisition system of the thin film pressure sensor grid. , 2011, , .		0
32	Notice of Retraction: Configuration optimization of manufacturing system based resource reconfiguration. , 2010, , .		1
33	Interfacial properties for real rough MEMS/NEMS surfaces by incorporating the electrostatic and Casimir effects—a theoretical study. Surface and Interface Analysis, 2009, 41, 338-346.	1.8	22