

# 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	Picosecond Laser-Textured Stainless Steel Superhydrophobic Surface with an Antibacterial Adhesion Property. <i>Langmuir</i> , 2019, 35, 11414-11421.	3.5	82
2	Effect of carbon content on the structure and electronic properties of silicon oxycarbide anodes for lithium-ion batteries: a first-principles study. <i>Journal of Materials Chemistry A</i> , 2015, 3, 5067-5071.	10.3	75
3	A Multisensor Fusion Method for Tool Condition Monitoring in Milling. <i>Sensors</i> , 2018, 18, 3866.	3.8	65
4	Atomic investigation on reversible lithium storage in amorphous silicon oxycarbide as a high power anode material. <i>Journal of Materials Chemistry A</i> , 2016, 4, 12328-12333.	10.3	54
5	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
6	Effect of carbon segregation on performance of inhomogeneous SiC <sub>y</sub> O <sub>6/5</sub> as anode materials for lithium-ion battery: A first-principles study. <i>Journal of Power Sources</i> , 2016, 334, 39-43.	7.8	27
7	Femtosecond Laser Fabricated Elastomeric Superhydrophobic Surface with Stretching-Enhanced Water Repellency. <i>Nanoscale Research Letters</i> , 2019, 14, 333.	5.7	27
8	Interfacial properties for real rough MEMS/NEMS surfaces by incorporating the electrostatic and Casimir effects—a theoretical study. <i>Surface and Interface Analysis</i> , 2009, 41, 338-346.	1.8	22
9	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
10	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
11	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
12	Tunable Bubble Assembling on a Hybrid Superhydrophobic-Superhydrophilic Surface Fabricated by Selective Laser Texturing. <i>Langmuir</i> , 2018, 34, 13203-13209.	3.5	14
13	Numerical investigation into the nanostructure and mechanical properties of amorphous SiBCN ceramics. <i>RSC Advances</i> , 2013, 3, 14458.	3.6	12
14	Drag reduction effect of ultraviolet laser-fabricated superhydrophobic surface. <i>Surface Engineering</i> , 2020, 36, 1307-1314.	2.2	12
15	Laser Sintering of TiO <sub>2</sub> Films for Flexible Dye-Sensitized Solar Cells. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 823.	2.5	11
16	Deposition of Low Stress Silicon Nitride Thin Film and Its Application in Surface Micromachining Device Structures. <i>Advances in Materials Science and Engineering</i> , 2013, 2013, 1-4.	1.8	7
17	Modeling of amorphous SiC <sub>x</sub> O <sub>6/5</sub> by classical molecular dynamics and first principles calculations. <i>Scientific Reports</i> , 2017, 7, 42705.	3.3	7
18	Picosecond Laser-Induced Hierarchical Periodic Near- and Deep-Subwavelength Ripples on Stainless-Steel Surfaces. <i>Nanomaterials</i> , 2020, 10, 62.	4.1	6

#	ARTICLE	IF	CITATIONS
19	Friction and wear characteristics modification via laser surface textured grooves. Surface Engineering, 2021, 37, 658-668.	2.2	6
20	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
21	Hypergyrating Droplets Generated on a Selective Laser-Textured Heterogeneous Wettability Surface. Langmuir, 2020, 36, 8123-8128.	3.5	5
22	Large-scale molecular dynamics modeling of boron-doped amorphous SiCO ceramics. Journal of Molecular Modeling, 2017, 23, 178.	1.8	4
23	Object identification on car seat based on rough sets. , 2011, , .		3
24	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
25	Lithiation-Induced Structural Rearrangement and Stress Change in SiCO-Derived Porous Carbon: A First-Principles Study. Journal of Physical Chemistry C, 2019, 123, 19315-19321.	3.1	2
26	Notice of Retraction: Configuration optimization of manufacturing system based resource reconfiguration. , 2010, , .		1
27	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
28	Ultraviolet Laser Patterning of Fluorine-Doped Tin Oxide with Different Radiation Directions. Journal of Russian Laser Research, 2019, 40, 581-589.	0.6	1
29	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
30	Data acquisition system of the thin film pressure sensor grid. , 2011, , .		0
31	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
32	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
33	First-principles calculation of lithium insertion into homogeneous a-SiC <sub>2</sub> /5O <sub>6</sub> /5as high performance anode. RSC Advances, 2017, 7, 30559-30563.	3.6	0