

Xudong Fang

List of Publications by Year in descending order

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43
papers

622
citations

687220

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610775

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44
all docs

44
docs citations

44
times ranked

606
citing authors

#	ARTICLE	IF	CITATIONS
1	Smart Manufacturing and Intelligent Manufacturing: A Comparative Review. <i>Engineering</i> , 2021, 7, 738-757.	3.2	180
2	Numerical configuration design and investigation of heat transfer enhancement in pipes filled with gradient porous materials. <i>Energy Conversion and Management</i> , 2015, 105, 206-215.	4.4	58
3	Development and numerical investigation of novel gradient-porous heat sinks. <i>Energy Conversion and Management</i> , 2015, 106, 1370-1378.	4.4	40
4	High speed and low roughness micromachining of silicon carbide by plasma etching aided femtosecond laser processing. <i>Ceramics International</i> , 2020, 46, 17896-17902.	2.3	31
5	Gel spinning of UHMWPE fibers with polybutene as a new spin solvent. <i>Polymer Engineering and Science</i> , 2016, 56, 697-706.	1.5	28
6	Forecasting potential sensor applications of triboelectric nanogenerators through tech mining. <i>Nano Energy</i> , 2017, 35, 358-369.	8.2	24
7	Effect of Cu Ce alloy addition on the microstructure and mechanical performance of brazed diamonds with Ni Cr alloy. <i>International Journal of Refractory Metals and Hard Materials</i> , 2019, 80, 253-258.	1.7	24
8	High Temperature High Sensitivity Multipoint Sensing System Based on Three Cascade Mach-Zehnder Interferometers. <i>Sensors</i> , 2018, 18, 2688.	2.1	19
9	Hardness and friction coefficient of fused silica under scratching considering elastic recovery. <i>Ceramics International</i> , 2020, 46, 8200-8208.	2.3	16
10	Crystal cleavage, periodic nanostructure and surface modification of SiC ablated by femtosecond laser in different media. <i>Surface and Coatings Technology</i> , 2021, 424, 127652.	2.2	16
11	An ultra-high pressure sensor based on SOI piezoresistive material. <i>Journal of Mechanical Science and Technology</i> , 2010, 24, 1655-1660.	0.7	15
12	Processing of composite polystyrene foam with a honeycomb structure. <i>Polymer Engineering and Science</i> , 2015, 55, 1494-1503.	1.5	14
13	A 350 °C piezoresistive n-type 4H-SiC pressure sensor for hydraulic and pneumatic pressure tests. <i>Journal of Micromechanics and Microengineering</i> , 2020, 30, 055009.	1.5	13
14	Research on mechanism of nanoscale cutting with arc trajectory for monocrystalline silicon based on molecular dynamics simulation. <i>Computational Materials Science</i> , 2019, 170, 109175.	1.4	12
15	Optimal design of SiC piezoresistive pressure sensor considering material anisotropy. <i>Review of Scientific Instruments</i> , 2020, 91, 015004.	0.6	11
16	Modification mechanism of collaborative ions implanted into 4H-SiC by atomic simulation and experiment. <i>International Journal of Mechanical Sciences</i> , 2021, 212, 106832.	3.6	11
17	A High Pressure Sensor with Circular Diaphragm Based on MEMS Technology. <i>Key Engineering Materials</i> , 0, 483, 206-211.	0.4	10
18	Rapid Vacuum Infusion and Curing of Epoxy Composites with a Rubber-Cushioned Mold Design. <i>Polymer-Plastics Technology and Engineering</i> , 2016, 55, 1030-1038.	1.9	9

#	ARTICLE	IF	CITATIONS
19	Fabrication of high-strength polyoxymethylene fibers by gel spinning. <i>Journal of Materials Science</i> , 2018, 53, 11901-11916.	1.7	9
20	Microwave processing of syntactic foam from an expandable thermoset/thermoplastic mixture. <i>Polymer Engineering and Science</i> , 2015, 55, 1818-1828.	1.5	7
21	Stress Distribution in Silicon Subjected to Atomic Scale Grinding with a Curved Tool Path. <i>Materials</i> , 2020, 13, 1710.	1.3	7
22	Thermoelectricity and antivibration properties of screen-printed nanodoped $\text{In}_{1.35}\text{ZnO}_{2.11}/\text{In}_2\text{O}_3$ thin-film thermocouples on alumina substrates. <i>Ceramics International</i> , 2022, 48, 25747-25755.	2.3	7
23	An effective method of processing immiscible polymer blends into strong fiber. <i>Polymer Engineering and Science</i> , 2019, 59, 2052-2061.	1.5	6
24	Mechanical properties and indentation-induced phase transformation in $4\text{H}\alpha\text{-SiC}$ implanted by hydrogen ions. <i>Ceramics International</i> , 2022, 48, 15334-15347.	2.3	6
25	Influences of RF Magnetron Sputtering Power and Gas Flow Rate on a High Conductivity and Low Drift Rate of Tungsten-Rhenium Thin-Film Thermocouples. <i>Nanomaterials</i> , 2022, 12, 1120.	1.9	6
26	Direct drawing of gel fibers enabled by twist-gel spinning process. <i>Polymer Engineering and Science</i> , 2015, 55, 1389-1395.	1.5	5
27	Measuring Micro-Friction Torque in MEMS Gas Bearings. <i>Sensors</i> , 2016, 16, 726.	2.1	5
28	Spin Coating on Spherical Surface with Large Central Angles. <i>Coatings</i> , 2017, 7, 124.	1.2	5
29	Improvement mechanism of brittle-plastic transition and residual stress in scratching $4\text{H}\alpha\text{-SiC}$ implanted by hydrogen ions. <i>Ceramics International</i> , 2022, 48, 27076-27087.	2.3	5
30	An effective and simple process for obtaining high strength silkworm (<i>Bombyx mori</i>) silk fiber. <i>Fibers and Polymers</i> , 2015, 16, 2609-2616.	1.1	4
31	Simulation, fabrication, and characteristics of high-temperature, quick-response tungsten-rhenium thin-film thermocouples probe sensor. <i>Measurement Science and Technology</i> , 2022, 33, 105105.	1.4	4
32	Modeling of expandable polystyrene expansion. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	3
33	A Micro-Force Sensor with Beam-Membrane Structure for Measurement of Friction Torque in Rotating MEMS Machines. <i>Micromachines</i> , 2017, 8, 304.	1.4	3
34	Characterization of the Electrical Properties of a Double Heterostructure GaN/AlGaN Epitaxial Layer with an AlGaN Interlayer. <i>Journal of Electronic Materials</i> , 2021, 50, 2521-2529.	1.0	3
35	An Overview of Solid-Like Electrolytes for Supercapacitors. , 2013, , .		2
36	Twist-film gel spinning of large-diameter high-performance ultra-high molecular weight polyethylene monofilaments. <i>Textile Research Journal</i> , 2017, 87, 2323-2336.	1.1	2

#	ARTICLE	IF	CITATIONS
37	Density Measurement Performance in Flowing Liquid Using Microcantilever-Based Resonators under Bending and Torsion Vibrations. , 2019, , .		1
38	Ohmic Contact Characteristics of Silicon Carbide-based MEMS Devices. , 2021, , .		1
39	Vacuum Infusion for Processing Thermosetting Composites Containing High Loading Solid Fillers. , 2014, , .		0
40	Effect of Molecular Weight and Concentration on Gel-Spun UHMWPE Fibers With Polybutene as a New Spin Solvent. , 2017, , .		0
41	Study on the Enhancement of Diamond Fluorescence Characteristics by Multi-layer Anti-reflection Coating. , 2019, , .		0
42	Development of a 4H-SiC Piezoresistive Pressure Sensor for High Temperature Applications. , 2019, , .		0
43	Polymer and Composite Processing. , 2019, , 383-417.		0