

# Xudong Fang

## List of Publications by Year in descending order

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43  
papers

622  
citations

687220

13  
h-index

610775

24  
g-index

44  
all docs

44  
docs citations

44  
times ranked

606  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical properties and indentation-induced phase transformation in 4H-SiC implanted by hydrogen ions. <i>Ceramics International</i> , 2022, 48, 15334-15347.	2.3	6
2	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
3	Thermoelectricity and antivibration properties of screen-printed nanodoped In <sub>1.35</sub> ZnO <sub>2.11</sub> /In <sub>2</sub> O <sub>3</sub> thin-film thermocouples on alumina substrates. <i>Ceramics International</i> , 2022, 48, 25747-25755.	2.3	7
4	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
5	Improvement mechanism of brittle-plastic transition and residual stress in scratching 4H-SiC implanted by hydrogen ions. <i>Ceramics International</i> , 2022, 48, 27076-27087.	2.3	5
6	Smart Manufacturing and Intelligent Manufacturing: A Comparative Review. <i>Engineering</i> , 2021, 7, 738-757.	3.2	180
7	Characterization of the Electrical Properties of a Double Heterostructure GaN/AlGaIn Epitaxial Layer with an AlGaIn Interlayer. <i>Journal of Electronic Materials</i> , 2021, 50, 2521-2529.	1.0	3
8	Ohmic Contact Characteristics of Silicon Carbide-based MEMS Devices. , 2021, , .		1
9	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
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	Hardness and friction coefficient of fused silica under scratching considering elastic recovery. <i>Ceramics International</i> , 2020, 46, 8200-8208.	2.3	16
12	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
13	Optimal design of SiC piezoresistive pressure sensor considering material anisotropy. <i>Review of Scientific Instruments</i> , 2020, 91, 015004.	0.6	11
14	A 350 Å°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
15	Stress Distribution in Silicon Subjected to Atomic Scale Grinding with a Curved Tool Path. <i>Materials</i> , 2020, 13, 1710.	1.3	7
16	An effective method of processing immiscible polymer blends into strong fiber. <i>Polymer Engineering and Science</i> , 2019, 59, 2052-2061.	1.5	6
17	Density Measurement Performance in Flowing Liquid Using Microcantilever-Based Resonators under Bending and Torsion Vibrations. , 2019, , .		1
18	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

#	ARTICLE	IF	CITATIONS
19	Effect of Cu Ce alloy addition on the microstructure and mechanical performance of brazed diamonds with Ni Cr alloy. International Journal of Refractory Metals and Hard Materials, 2019, 80, 253-258.	1.7	24
20	Study on the Enhancement of Diamond Fluorescence Characteristics by Multi-layer Anti-reflection Coating. , 2019, , .		0
21	Development of a 4H-SiC Piezoresistive Pressure Sensor for High Temperature Applications. , 2019, , .		0
22	Polymer and Composite Processing. , 2019, , 383-417.		0
23	High Temperature High Sensitivity Multipoint Sensing System Based on Three Cascade Machâ€Zehnder Interferometers. Sensors, 2018, 18, 2688.	2.1	19
24	Fabrication of high-strength polyoxymethylene fibers by gel spinning. Journal of Materials Science, 2018, 53, 11901-11916.	1.7	9
25	Forecasting potential sensor applications of triboelectric nanogenerators through tech mining. Nano Energy, 2017, 35, 358-369.	8.2	24
26	Twist-film gel spinning of large-diameter high-performance ultra-high molecular weight polyethylene monofilaments. Textile Reseach Journal, 2017, 87, 2323-2336.	1.1	2
27	Effect of Molecular Weight and Concentration on Gel-Spun UHMWPE Fibers With Polybutene as a New Spin Solvent. , 2017, , .		0
28	Spin Coating on Spherical Surface with Large Central Angles. Coatings, 2017, 7, 124.	1.2	5
29	A Micro-Force Sensor with Beam-Membrane Structure for Measurement of Friction Torque in Rotating MEMS Machines. Micromachines, 2017, 8, 304.	1.4	3
30	Measuring Micro-Friction Torque in MEMS Gas Bearings. Sensors, 2016, 16, 726.	2.1	5
31	Gel spinning of UHMWPE fibers with polybutene as a new spin solvent. Polymer Engineering and Science, 2016, 56, 697-706.	1.5	28
32	Modeling of expandable polystyrene expansion. Journal of Applied Polymer Science, 2016, 133, .	1.3	3
33	Rapid Vacuum Infusion and Curing of Epoxy Composites with a Rubber-Cushioned Mold Design. Polymer-Plastics Technology and Engineering, 2016, 55, 1030-1038.	1.9	9
34	Direct drawing of gel fibers enabled by twistâ€gel spinning process. Polymer Engineering and Science, 2015, 55, 1389-1395.	1.5	5
35	Processing of composite polystyrene foam with a honeycomb structure. Polymer Engineering and Science, 2015, 55, 1494-1503.	1.5	14
36	An effective and simple process for obtaining high strength silkworm (Bombyx mori) silk fiber. Fibers and Polymers, 2015, 16, 2609-2616.	1.1	4

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37	Numerical configuration design and investigation of heat transfer enhancement in pipes filled with gradient porous materials. Energy Conversion and Management, 2015, 105, 206-215.	4.4	58
38	Development and numerical investigation of novel gradient-porous heat sinks. Energy Conversion and Management, 2015, 106, 1370-1378.	4.4	40
39	Microwave processing of syntactic foam from an expandable thermoset/thermoplastic mixture. Polymer Engineering and Science, 2015, 55, 1818-1828.	1.5	7
40	Vacuum Infusion for Processing Thermosetting Composites Containing High Loading Solid Fillers. , 2014, , .		0
41	An Overview of Solid-Like Electrolytes for Supercapacitors. , 2013, , .		2
42	An ultra-high pressure sensor based on SOI piezoresistive material. Journal of Mechanical Science and Technology, 2010, 24, 1655-1660.	0.7	15
43	A High Pressure Sensor with Circular Diaphragm Based on MEMS Technology. Key Engineering Materials, 0, 483, 206-211.	0.4	10