

# Jianguang Xu

## List of Publications by Year in descending order

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69  
papers

2,178  
citations

304368

22  
h-index

233125

45  
g-index

70  
all docs

70  
docs citations

70  
times ranked

2954  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrathin MXene nanosheets with rich fluorine termination groups realizing efficient electrocatalytic hydrogen evolution. <i>Nano Energy</i> , 2018, 47, 512-518.	8.2	243
2	Synthesis, Characterization, and Microwave Absorption Properties of Reduced Graphene Oxide/Strontium Ferrite/Polyaniline Nanocomposites. <i>Nanoscale Research Letters</i> , 2016, 11, 141.	3.1	184
3	Synthesis and Catalytic Properties of Au@Pd Nanoflowers. <i>ACS Nano</i> , 2011, 5, 6119-6127.	7.3	163
4	Synthesis and microwave absorption properties of reduced graphene oxide-magnetic porous nanospheres-polyaniline composites. <i>Composites Science and Technology</i> , 2015, 117, 315-321.	3.8	141
5	Ultrathin Nanosheets of MAX Phases with Enhanced Thermal and Mechanical Properties in Polymeric Compositions: $Ti_{3-x}Si_{0.75-x}Al_{0.25-x}C_2$ . <i>Angewandte Chemie - International Edition</i> , 2013, 52, 4361-4365.	7.2	113
6	Layered BiOBr/Ti <sub>3</sub> C <sub>2</sub> MXene composite with improved visible-light photocatalytic activity. <i>Journal of Materials Science</i> , 2019, 54, 2458-2471.	1.7	108
7	Preparation of reduced graphene oxide/flake carbonyl iron powders/polyaniline composites and their enhanced microwave absorption properties. <i>Journal of Alloys and Compounds</i> , 2015, 636, 310-316.	2.8	100
8	GO-Ti <sub>3</sub> C <sub>2</sub> two-dimensional heterojunction nanomaterial for anticorrosion enhancement of epoxy zinc-rich coatings. <i>Journal of Hazardous Materials</i> , 2021, 417, 126048.	6.5	83
9	Realization of Artificial Neuron Using MXene Bi-Directional Threshold Switching Memristors. <i>IEEE Electron Device Letters</i> , 2019, 40, 1686-1689.	2.2	61
10	Demonstration of Li-Ion Capacity of MAX Phases. <i>ACS Energy Letters</i> , 2016, 1, 1094-1099.	8.8	57
11	Synthesis of lead sulfide/(polyvinyl acetate) nanocomposites with controllable morphology. <i>Chemical Physics Letters</i> , 2000, 321, 504-507.	1.2	53
12	Resistance switching characteristics and mechanisms of MXene/SiO <sub>2</sub> structure-based memristor. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	39
13	Formation of new MXene film using spinning coating method with DMSO solution and its application in advanced memristive device. <i>Ceramics International</i> , 2019, 45, 19467-19472.	2.3	37
14	Chemically Integrated Multiwalled Carbon Nanotubes/Zinc Manganate Nanocrystals as Ultralong-Life Anode Materials for Lithium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 2170-2177.	3.2	34
15	A comparative study of iron-vanadium and all-vanadium flow battery for large scale energy storage. <i>Chemical Engineering Journal</i> , 2022, 429, 132403.	6.6	34
16	Core-shell photoanode developed by atomic layer deposition of Bi <sub>2</sub> O <sub>3</sub> on Si nanowires for enhanced photoelectrochemical water splitting. <i>Nanotechnology</i> , 2014, 25, 455402.	1.3	33
17	Synthesis of MoSi <sub>2</sub> /WSi <sub>2</sub> nanocrystalline powder by mechanical-assistant combustion synthesis method. <i>International Journal of Refractory Metals and Hard Materials</i> , 2010, 28, 217-220.	1.7	32
18	Hierarchical structures constructed by BiOX (X=Cl, I) nanosheets on CNTs/carbon composite fibers for improved photocatalytic degradation of methyl orange. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	0.8	32

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19	Synthesis and excellent visible light photocatalysis performance of magnetic reduced graphene oxide/ZnO/ZnFe <sub>2</sub> O <sub>4</sub> composites. RSC Advances, 2017, 7, 23246-23254.	1.7	32
20	Synthesis of hierarchical Bi <sub>2</sub> O <sub>3</sub> /Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> p-n junction nanoribbons on carbon fibers from (001) facet dominated TiO <sub>2</sub> nanosheets. RSC Advances, 2014, 4, 56682-56689.	1.7	31
21	Electrical Properties and Biological Synaptic Simulation of Ag/MXene/SiO <sub>2</sub> /Pt RRAM Devices. Electronics (Switzerland), 2020, 9, 2098.	1.8	25
22	Friction and wear behavior of polytetrafluoroethylene composites filled with Ti <sub>3</sub> SiC <sub>2</sub> . Materials & Design, 2014, 61, 270-274.	5.1	24
23	In situ reactive spark plasma sintering of WSi <sub>2</sub> /MoSi <sub>2</sub> composites. Ceramics International, 2016, 42, 11165-11169.	2.3	24
24	Mesoporous Hierarchical Structure of Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> /Graphene with High Electrochemical Performance in Lithium-Ion Batteries. ACS Sustainable Chemistry and Engineering, 2018, 6, 11360-11366.	3.2	24
25	Synthesis of nanocrystalline Cu <sub>2</sub> Se at room temperature by <sup>60</sup> Co-irradiation. Canadian Journal of Chemistry, 2000, 78, 1143-1146.	0.6	24
26	Two-dimensional holey ZnFe <sub>2</sub> O <sub>4</sub> nanosheet/reduced graphene oxide hybrids by self-link of nanoparticles for high-rate lithium storage. Electrochimica Acta, 2018, 292, 390-398.	2.6	22
27	Demonstration of 2D MXene memristor: Stability, conduction mechanism, and synaptic plasticity. Materials Letters, 2020, 266, 127413.	1.3	22
28	Intercalation and delamination of Ti <sub>2</sub> SnC with high lithium ion storage capacity. Nanoscale, 2021, 13, 7355-7361.	2.8	22
29	Room temperature mechanical properties and high temperature oxidation behavior of MoSi <sub>2</sub> matrix composite reinforced by adding La <sub>2</sub> O <sub>3</sub> and Mo <sub>5</sub> Si <sub>3</sub> . Materials Characterization, 2009, 60, 447-450.	1.9	21
30	Strongly coupled hybrid ZnCo <sub>2</sub> O <sub>4</sub> quantum dots/reduced graphene oxide with high-performance lithium storage capability. Electrochimica Acta, 2016, 210, 783-791.	2.6	21
31	V <sub>a</sub> ,C-Based Memristor for Applications of Low Power Electronic Synapse. IEEE Electron Device Letters, 2021, 42, 319-322.	2.2	21
32	Artificial Neurons Based on Ag/V <sub>2</sub> C/W Threshold Switching Memristors. Nanomaterials, 2021, 11, 2860.	1.9	21
33	Achieving high yield of Ti <sub>3</sub> C <sub>2</sub> T MXene few-layer flakes with enhanced pseudocapacitor performance by decreasing precursor size. Chinese Chemical Letters, 2020, 31, 1039-1043.	4.8	20
34	Synthesis of CdS/polyacrylonitrile nanocomposites by <sup>60</sup> Co-irradiation. Materials Research Bulletin, 2000, 35, 1355-1360.	2.7	18
35	Synthesis of SiCw/MoSi <sub>2</sub> powder by the "chemical oven" self-propagating combustion method. Ceramics International, 2006, 32, 633-636.	2.3	17
36	In situ pressureless sintering of SiC/MoSi <sub>2</sub> composites. Ceramics International, 2012, 38, 2767-2772.	2.3	17

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37	General Synthesis of Uniform Three-Dimensional Metal Oxides/Reduced Graphene Oxide Aerogels by a Nucleation-Inducing Growth Strategy for High-Performance Lithium Storage. ACS Sustainable Chemistry and Engineering, 2019, 7, 847-857.	3.2	16
38	Towards an universal artificial synapse using MXene-PZT based ferroelectric memristor. Ceramics International, 2022, 48, 16263-16272.	2.3	15
39	Two-dimensional sulfur-doped Mn <sub>3</sub> O <sub>4</sub> quantum dots/reduced graphene oxide nanosheets as high-rate anode materials for lithium storage. Ceramics International, 2018, 44, 21734-21741.	2.3	14
40	Effect of argon atmosphere on the formation of MoSi <sub>2</sub> by self-propagating combustion method. International Journal of Refractory Metals and Hard Materials, 2007, 25, 318-321.	1.7	12
41	Emulation of multiple-functional synapses using V <sub>2</sub> C memristors with coexistence of resistive and threshold switching. Materials Science in Semiconductor Processing, 2021, 135, 106123.	1.9	12
42	Preparation and characterization of SiC/(Mo,W)Si <sub>2</sub> composites from powders resulting from a SHS in a chemical oven. International Journal of Refractory Metals and Hard Materials, 2009, 27, 74-77.	1.7	11
43	Unsupervised Learning Implemented by Ti <sub>3</sub> C <sub>2</sub> -MXene-Based Memristive Neuromorphic System. ACS Applied Electronic Materials, 2020, 2, 3497-3501.	2.0	11
44	Polypyrrole Nanotube Sponge Host for Stable Lithium-Metal Batteries under Lean Electrolyte Conditions. ACS Sustainable Chemistry and Engineering, 2021, 9, 2543-2551.	3.2	11
45	In-situ preparation of SiC@MoSi <sub>2</sub> composite by microwave reaction sintering. Ceramics International, 2012, 38, 6895-6898.	2.3	10
46	Preparation and Characterization of MoSi <sub>2</sub> /WSi <sub>2</sub> Composites from MASHed Powder. Materials Transactions, 2015, 56, 313-316.	0.4	10
47	Analysis and optimization for multi-stack vanadium flow battery module incorporating electrode permeability. Journal of Power Sources, 2021, 515, 230606.	4.0	10
48	Effects of Y <sub>2</sub> O <sub>3</sub> on SiC/MoSi <sub>2</sub> composite by mechanical-assistant combustion synthesis. International Journal of Refractory Metals and Hard Materials, 2013, 36, 143-148.	1.7	9
49	Micro/Mesoporous Zinc Manganese Oxide/Graphene Hybrids with High Specific Surface Area: A High Capacity, Superior Rate, and Ultralong Life Anode for Lithium Storage. ChemElectroChem, 2017, 4, 230-235.	1.7	9
50	In situ synthesis of SiC/MoSi <sub>2</sub> composite through SPS process. Journal of Alloys and Compounds, 2008, 462, 170-174.	2.8	8
51	Enhancements of thermoelectric performance in n-type Bi <sub>2</sub> Te <sub>3</sub> -based nanocomposites through incorporating 2D Mxenes. Journal of the European Ceramic Society, 2022, 42, 4587-4593.	2.8	8
52	Preparation of MoSi <sub>2</sub> /SiC composite by mechanical-assistant combustion synthesis method. Journal of Alloys and Compounds, 2009, 487, 326-330.	2.8	7
53	Ti <sub>3</sub> Si <sub>0.75</sub> Al <sub>0.25</sub> C <sub>2</sub> Nanosheets as Promising Anode Material for Li-Ion Batteries. Nanomaterials, 2021, 11, 3449.	1.9	7
54	Fabrication and characterization of SiC/MoSi <sub>2</sub> composite from COSHed powder. Journal of Materials Science, 2007, 42, 5795-5798.	1.7	6

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55	First-Principles Calculation and Experimental Investigation of a Three-Atoms-Type MXene $V_2C$ and Its Effects on Memristive Devices. IEEE Nanotechnology Magazine, 2021, 20, 512-516.	1.1	6
56	Pseudocapacitive Lithium Storage in Three-Dimensional Cobalt-Doped MnO/Nitrogen-Doped Reduced Graphene Oxide Aerogels as High-Rate Anode Material. ChemElectroChem, 2018, 5, 3419-3425.	1.7	5
57	Preparation and Characterization of (Mo, W)Si <sub>2</sub> -SiC Composites by In Situ Microwave Reaction Sintering. Journal of Materials Engineering and Performance, 2017, 26, 3239-3244.	1.2	4
58	Preparation of nanocrystalline MoSi <sub>2</sub> with enhanced lithium storage by sol-gel and carbonthermal reduction method. Ceramics International, 2018, 44, 9494-9498.	2.3	4
59	Pressureless sintering of TiN/Y-( $\text{I}^{\pm}/\text{I}^2$ )-sialon ceramics from SHS powder. Ceramics International, 2006, 32, 599-602.	2.3	3
60	Ferroelectric Memristors Based Hardware of Brain Functions for Future Artificial Intelligence. Journal of Physics: Conference Series, 2020, 1631, 012042.	0.3	3
61	Surface oxygen-deficient Ti <sub>2</sub> SC for enhanced lithium-ion uptake. Chinese Chemical Letters, 2023, 34, 107500.	4.8	3
62	Inserted Effects of MXene on Switching Mechanisms and Characteristics of SiO <sub>2</sub> -Based Memristor: Experimental and First-Principles Investigations. IEEE Transactions on Electron Devices, 2022, 69, 3688-3693.	1.6	3
63	Title is missing!. Journal of Materials Science Letters, 2003, 22, 163-165.	0.5	2
64	Cyclic oxidation behaviors of MoSi <sub>2</sub> with different relative density. Journal Wuhan University of Technology, Materials Science Edition, 2008, 23, 699-703.	0.4	2
65	Numerical Simulation of Zr <sub>66</sub> Al <sub>8</sub> Cu <sub>7</sub> Ni <sub>19</sub> Preparation Process. Materials and Manufacturing Processes, 2008, 23, 533-538.	2.7	1
66	Preparation of TiSi <sub>2</sub> Powders with Enhanced Lithium-Ion Storage via Chemical Oven Self-Propagating High-Temperature Synthesis. Nanomaterials, 2021, 11, 2279.	1.9	1
67	Synthesis of Novel Macromolecular Coupling Agent and its Application in Nano-Copper Lubricating Oil. Current Nanoscience, 2020, 16, 253-258.	0.7	1
68	Lithium-ions uptake by MAX/graphene hybrid. , 2022, 7, 59-71.		1
69	Formation of Ti <sub>3</sub> Sn(1-x)Al <sub>x</sub> C <sub>2</sub> Powder by Self-Propagating High Temperature Synthesis. Journal of Materials Engineering and Performance, 2021, 30, 9008.	1.2	0