

Jianguang Xu

List of Publications by Year in descending order

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69
papers

2,178
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304743

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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.	16.0	243
2	Synthesis, Characterization, and Microwave Absorption Properties of Reduced Graphene Oxide/Strontium Ferrite/Polyaniline Nanocomposites. <i>Nanoscale Research Letters</i> , 2016, 11, 141.	5.7	184
3	Synthesis and Catalytic Properties of Au@Pd Nanoflowers. <i>ACS Nano</i> , 2011, 5, 6119-6127.	14.6	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.	7.8	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.	13.8	113
6	Layered BiOBr/Ti ₃ C ₂ MXene composite with improved visible-light photocatalytic activity. <i>Journal of Materials Science</i> , 2019, 54, 2458-2471.	3.7	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.	5.5	100
8	GO-Ti ₃ C ₂ two-dimensional heterojunction nanomaterial for anticorrosion enhancement of epoxy zinc-rich coatings. <i>Journal of Hazardous Materials</i> , 2021, 417, 126048.	12.4	83
9	Realization of Artificial Neuron Using MXene Bi-Directional Threshold Switching Memristors. <i>IEEE Electron Device Letters</i> , 2019, 40, 1686-1689.	3.9	61
10	Demonstration of Li-Ion Capacity of MAX Phases. <i>ACS Energy Letters</i> , 2016, 1, 1094-1099.	17.4	57
11	Synthesis of lead sulfide/(polyvinyl acetate) nanocomposites with controllable morphology. <i>Chemical Physics Letters</i> , 2000, 321, 504-507.	2.6	53
12	Resistance switching characteristics and mechanisms of MXene/SiO ₂ structure-based memristor. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	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.	4.8	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.	6.7	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.	12.7	34
16	Core-shell photoanode developed by atomic layer deposition of Bi ₂ O ₃ on Si nanowires for enhanced photoelectrochemical water splitting. <i>Nanotechnology</i> , 2014, 25, 455402.	2.6	33
17	Synthesis of MoSi ₂ /WSi ₂ nanocrystalline powder by mechanical-assistant combustion synthesis method. <i>International Journal of Refractory Metals and Hard Materials</i> , 2010, 28, 217-220.	3.8	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.	1.9	32

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19	Synthesis and excellent visible light photocatalysis performance of magnetic reduced graphene oxide/ZnO/ZnFe ₂ O ₄ composites. RSC Advances, 2017, 7, 23246-23254.	3.6	32
20	Synthesis of hierarchical Bi ₂ O ₃ /Bi ₄ Ti ₃ O ₁₂ p-n junction nanoribbons on carbon fibers from (001) facet dominated TiO ₂ nanosheets. RSC Advances, 2014, 4, 56682-56689.	3.6	31
21	Electrical Properties and Biological Synaptic Simulation of Ag/MXene/SiO ₂ /Pt RRAM Devices. Electronics (Switzerland), 2020, 9, 2098.	3.1	25
22	Friction and wear behavior of polytetrafluoroethylene composites filled with Ti ₃ SiC ₂ . Materials & Design, 2014, 61, 270-274.	5.1	24
23	In situ reactive spark plasma sintering of WSi ₂ /MoSi ₂ composites. Ceramics International, 2016, 42, 11165-11169.	4.8	24
24	Mesoporous Hierarchical Structure of Li ₄ Ti ₅ O ₁₂ /Graphene with High Electrochemical Performance in Lithium-Ion Batteries. ACS Sustainable Chemistry and Engineering, 2018, 6, 11360-11366.	6.7	24
25	Synthesis of nanocrystalline Cu ₂ Se at room temperature by ⁶⁰ Co-irradiation. Canadian Journal of Chemistry, 2000, 78, 1143-1146.	1.1	24
26	Two-dimensional holey ZnFe ₂ O ₄ nanosheet/reduced graphene oxide hybrids by self-link of nanoparticles for high-rate lithium storage. Electrochimica Acta, 2018, 292, 390-398.	5.2	22
27	Demonstration of 2D MXene memristor: Stability, conduction mechanism, and synaptic plasticity. Materials Letters, 2020, 266, 127413.	2.6	22
28	Intercalation and delamination of Ti ₂ SnC with high lithium ion storage capacity. Nanoscale, 2021, 13, 7355-7361.	5.6	22
29	Room temperature mechanical properties and high temperature oxidation behavior of MoSi ₂ matrix composite reinforced by adding La ₂ O ₃ and Mo ₅ Si ₃ . Materials Characterization, 2009, 60, 447-450.	4.4	21
30	Strongly coupled hybrid ZnCo ₂ O ₄ quantum dots/reduced graphene oxide with high-performance lithium storage capability. Electrochimica Acta, 2016, 210, 783-791.	5.2	21
31	V _d w _C -Based Memristor for Applications of Low Power Electronic Synapse. IEEE Electron Device Letters, 2021, 42, 319-322.	3.9	21
32	Artificial Neurons Based on Ag/V ₂ C/W Threshold Switching Memristors. Nanomaterials, 2021, 11, 2860.	4.1	21
33	Achieving high yield of Ti ₃ C ₂ T MXene few-layer flakes with enhanced pseudocapacitor performance by decreasing precursor size. Chinese Chemical Letters, 2020, 31, 1039-1043.	9.0	20
34	Synthesis of CdS/polyacrylonitrile nanocomposites by ⁶⁰ Co-irradiation. Materials Research Bulletin, 2000, 35, 1355-1360.	5.2	18
35	Synthesis of SiCw/MoSi ₂ powder by the "chemical oven" self-propagating combustion method. Ceramics International, 2006, 32, 633-636.	4.8	17
36	In situ pressureless sintering of SiC/MoSi ₂ composites. Ceramics International, 2012, 38, 2767-2772.	4.8	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.	6.7	16
38	Towards an universal artificial synapse using MXene-PZT based ferroelectric memristor. Ceramics International, 2022, 48, 16263-16272.	4.8	15
39	Two-dimensional sulfur-doped Mn ₃ O ₄ quantum dots/reduced graphene oxide nanosheets as high-rate anode materials for lithium storage. Ceramics International, 2018, 44, 21734-21741.	4.8	14
40	Effect of argon atmosphere on the formation of MoSi ₂ by self-propagating combustion method. International Journal of Refractory Metals and Hard Materials, 2007, 25, 318-321.	3.8	12
41	Emulation of multiple-functional synapses using V ₂ C memristors with coexistence of resistive and threshold switching. Materials Science in Semiconductor Processing, 2021, 135, 106123.	4.0	12
42	Preparation and characterization of SiC/(Mo,W)Si ₂ composites from powders resulting from a SHS in a chemical oven. International Journal of Refractory Metals and Hard Materials, 2009, 27, 74-77.	3.8	11
43	Unsupervised Learning Implemented by Ti ₃ C ₂ -MXene-Based Memristive Neuromorphic System. ACS Applied Electronic Materials, 2020, 2, 3497-3501.	4.3	11
44	Polypyrrole Nanotube Sponge Host for Stable Lithium-Metal Batteries under Lean Electrolyte Conditions. ACS Sustainable Chemistry and Engineering, 2021, 9, 2543-2551.	6.7	11
45	In-situ preparation of SiC@MoSi ₂ composite by microwave reaction sintering. Ceramics International, 2012, 38, 6895-6898.	4.8	10
46	Preparation and Characterization of MoSi ₂ /WSi ₂ Composites from MASHSed Powder. Materials Transactions, 2015, 56, 313-316.	1.2	10
47	Analysis and optimization for multi-stack vanadium flow battery module incorporating electrode permeability. Journal of Power Sources, 2021, 515, 230606.	7.8	10
48	Effects of Y ₂ O ₃ on SiC/MoSi ₂ composite by mechanical-assistant combustion synthesis. International Journal of Refractory Metals and Hard Materials, 2013, 36, 143-148.	3.8	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.	3.4	9
50	In situ synthesis of SiC/MoSi ₂ composite through SPS process. Journal of Alloys and Compounds, 2008, 462, 170-174.	5.5	8
51	Enhancements of thermoelectric performance in n-type Bi ₂ Te ₃ -based nanocomposites through incorporating 2D Mxenes. Journal of the European Ceramic Society, 2022, 42, 4587-4593.	5.7	8
52	Preparation of MoSi ₂ /SiC composite by mechanical-assistant combustion synthesis method. Journal of Alloys and Compounds, 2009, 487, 326-330.	5.5	7
53	Ti ₃ Si _{0.75} Al _{0.25} C ₂ Nanosheets as Promising Anode Material for Li-Ion Batteries. Nanomaterials, 2021, 11, 3449.	4.1	7
54	Fabrication and characterization of SiC/MoSi ₂ composite from COSHSed powder. Journal of Materials Science, 2007, 42, 5795-5798.	3.7	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.	2.0	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.	3.4	5
57	Preparation and Characterization of (Mo, W)Si ₂ -SiC Composites by In Situ Microwave Reaction Sintering. Journal of Materials Engineering and Performance, 2017, 26, 3239-3244.	2.5	4
58	Preparation of nanocrystalline MoSi ₂ with enhanced lithium storage by sol-gel and carbonthermal reduction method. Ceramics International, 2018, 44, 9494-9498.	4.8	4
59	Pressureless sintering of TiN/Y-($\text{I}^{\pm}/\text{I}^2$)-sialon ceramics from SHS powder. Ceramics International, 2006, 32, 599-602.	4.8	3
60	Ferroelectric Memristors Based Hardware of Brain Functions for Future Artificial Intelligence. Journal of Physics: Conference Series, 2020, 1631, 012042.	0.4	3
61	Surface oxygen-deficient Ti ₂ SC for enhanced lithium-ion uptake. Chinese Chemical Letters, 2023, 34, 107500.	9.0	3
62	Inserted Effects of MXene on Switching Mechanisms and Characteristics of SiO ₂ -Based Memristor: Experimental and First-Principles Investigations. IEEE Transactions on Electron Devices, 2022, 69, 3688-3693.	3.0	3
63	Title is missing!. Journal of Materials Science Letters, 2003, 22, 163-165.	0.5	2
64	Cyclic oxidation behaviors of MoSi ₂ with different relative density. Journal Wuhan University of Technology, Materials Science Edition, 2008, 23, 699-703.	1.0	2
65	Numerical Simulation of Zr ₆₆ Al ₈ Cu ₇ Ni ₁₉ Preparation Process. Materials and Manufacturing Processes, 2008, 23, 533-538.	4.7	1
66	Preparation of TiSi ₂ Powders with Enhanced Lithium-Ion Storage via Chemical Oven Self-Propagating High-Temperature Synthesis. Nanomaterials, 2021, 11, 2279.	4.1	1
67	Synthesis of Novel Macromolecular Coupling Agent and its Application in Nano-Copper Lubricating Oil. Current Nanoscience, 2020, 16, 253-258.	1.2	1
68	Lithium-ions uptake by MAX/graphene hybrid. , 2022, 7, 59-71.		1
69	Formation of Ti ₃ Sn(1-x)Al _x C ₂ Powder by Self-Propagating High Temperature Synthesis. Journal of Materials Engineering and Performance, 2021, 30, 9008.	2.5	0