

# Xiaoke Mu

## List of Publications by Year in descending order

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53  
papers

3,163  
citations

218381

26  
h-index

182168

51  
g-index

60  
all docs

60  
docs citations

60  
times ranked

5231  
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-Layered Ultrasmall Nanoplates of MoS <sub>2</sub> Embedded in Carbon Nanofibers with Excellent Electrochemical Performance for Lithium and Sodium Storage. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 2152-2156.	7.2	826
2	“Nano-Pearl-String” TiNb <sub>2</sub> O <sub>7</sub> as Anodes for Rechargeable Lithium Batteries. <i>Advanced Energy Materials</i> , 2013, 3, 49-53.	10.2	220
3	Hollow Carbon Nanospheres with a High Rate Capability for Lithium-Based Batteries. <i>ChemSusChem</i> , 2012, 5, 400-403.	3.6	215
4	An FeF <sub>3</sub> ·0.5H <sub>2</sub> O Polytype: A Microporous Framework Compound with Intersecting Tunnels for Li and Na Batteries. <i>Journal of the American Chemical Society</i> , 2013, 135, 11425-11428.	6.6	177
5	Fast Li Storage in MoS <sub>2</sub> -Graphene-Carbon Nanotube Nanocomposites: Advantageous Functional Integration of OD, 1D, and 2D Nanostructures. <i>Advanced Energy Materials</i> , 2015, 5, 1401170.	10.2	155
6	Top-Down Synthesis of Open Framework Fluoride for Lithium and Sodium Batteries. <i>Chemistry of Materials</i> , 2013, 25, 962-969.	3.2	117
7	Fast kinetics of multivalent intercalation chemistry enabled by solvated magnesium-ions into self-established metallic layered materials. <i>Nature Communications</i> , 2018, 9, 5115.	5.8	114
8	A High-Capacity Cathode for Lithium Batteries Consisting of Porous Microspheres of Highly Amorphized Iron Fluoride Densified from Its Open Parent Phase. <i>Advanced Energy Materials</i> , 2013, 3, 113-119.	10.2	111
9	Tailoring Surface Frustrated Lewis Pairs of In <sub>2</sub> O <sub>3</sub> ·x(OH) <sub>y</sub> for Gas-Phase Heterogeneous Photocatalytic Reduction of CO <sub>2</sub> by Isomorphous Substitution of In <sup>3+</sup> with Bi <sup>3+</sup> . <i>Advanced Science</i> , 2018, 5, 1700732.	5.6	91
10	VOCl as a Cathode for Rechargeable Chloride Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 4285-4290.	7.2	81
11	Cu-Zr nanoglasses: Atomic structure, thermal stability and indentation properties. <i>Acta Materialia</i> , 2017, 136, 181-189.	3.8	78
12	Lithium/Oxygen Incorporation and Microstructural Evolution during Synthesis of Li-Rich Layered Li <sub>0.2</sub> Ni <sub>0.2</sub> Mn <sub>0.6</sub> O <sub>2</sub> Oxides. <i>Advanced Energy Materials</i> , 2019, 9, 1803094.	10.2	78
13	Macroscopic nanodiamonds/ <sup>12</sup> -SiC composite as metal-free catalysts for steam-free dehydrogenation of ethylbenzene to styrene. <i>Applied Catalysis A: General</i> , 2015, 499, 217-226.	2.2	53
14	Radial distribution function imaging by STEM diffraction: Phase mapping and analysis of heterogeneous nanostructured glasses. <i>Ultramicroscopy</i> , 2016, 168, 1-6.	0.8	52
15	Nanodiamond decorated few-layer graphene composite as an efficient metal-free dehydrogenation catalyst for styrene production. <i>Catalysis Today</i> , 2015, 249, 167-175.	2.2	45
16	Mapping structure and morphology of amorphous organic thin films by 4D-STEM pair distribution function analysis. <i>Microscopy (Oxford, England)</i> , 2019, 68, 301-309.	0.7	45
17	Multichannel hollow TiO <sub>2</sub> nanofibers fabricated by single-nozzle electrospinning and their application for fast lithium storage. <i>Electrochemistry Communications</i> , 2013, 28, 54-57.	2.3	43
18	A highly N-doped carbon phase “dressing” of macroscopic supports for catalytic applications. <i>Chemical Communications</i> , 2015, 51, 14393-14396.	2.2	43

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19	Structure and Properties of Nanoglasses. <i>Advanced Engineering Materials</i> , 2018, 20, 1800404.	1.6	42
20	Evolution of order in amorphous-to-crystalline phase transformation of MgF <sub>2</sub> . <i>Journal of Applied Crystallography</i> , 2013, 46, 1105-1116.	1.9	39
21	Towards quantitative treatment of electron pair distribution function. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2019, 75, 532-549.	0.5	38
22	Unveiling the Local Atomic Arrangements in the Shear Band Regions of Metallic Glass. <i>Advanced Materials</i> , 2021, 33, e2007267.	11.1	38
23	Lithium Potential Variations for Metastable Materials: Case Study of Nanocrystalline and Amorphous LiFePO <sub>4</sub> . <i>Nano Letters</i> , 2014, 14, 5342-5349.	4.5	33
24	High-Performance Low-Temperature Li <sup>+</sup> Intercalation in Disordered Rock-Salt Li <sup>+</sup> Cr <sup>+</sup> V Oxyfluorides. <i>ChemElectroChem</i> , 2016, 3, 892-895.	1.7	32
25	Solution Growth of Ultralong Gold Nanohelices. <i>ACS Nano</i> , 2017, 11, 5538-5546.	7.3	30
26	Understanding the graphitization and growth of free-standing nanocrystalline graphene using in situ transmission electron microscopy. <i>Nanoscale</i> , 2017, 9, 12835-12842.	2.8	27
27	(De)Lithiation Mechanism of Hierarchically Layered LiNi <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> O <sub>2</sub> Cathodes during High-Voltage Cycling. <i>Journal of the Electrochemical Society</i> , 2019, 166, A5025-A5032.	1.3	27
28	VOCl as a Cathode for Rechargeable Chloride Ion Batteries. <i>Angewandte Chemie</i> , 2016, 128, 4357-4362.	1.6	26
29	Surface segregation of primary glassy nanoparticles of Fe <sub>90</sub> Sc <sub>10</sub> nanoglass. <i>Materials Letters</i> , 2016, 181, 248-252.	1.3	23
30	Revealing the Dual Surface Reactions on a HE-NCM Li-Ion Battery Cathode and Their Impact on the Surface Chemistry of the Counter Electrode. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 6054-6065.	4.0	23
31	Electron Beam Effects on Oxide Thin Films' Structure and Electrical Property Correlations. <i>Microscopy and Microanalysis</i> , 2019, 25, 592-600.	0.2	23
32	Interlayer-Expanded Vanadium Oxychloride as an Electrode Material for Magnesium-Based Batteries. <i>ChemElectroChem</i> , 2017, 4, 738-745.	1.7	22
33	Activation and degradation of electrospun LiFePO <sub>4</sub> battery cathodes. <i>Journal of Power Sources</i> , 2018, 396, 386-394.	4.0	21
34	Structural Evolution of Magnesium Difluoride: from an Amorphous Deposit to a New Polymorph. <i>Inorganic Chemistry</i> , 2011, 50, 1563-1569.	1.9	20
35	Second-Harmonic Generation from ZnO/Al <sub>2</sub> O <sub>3</sub> Nanolaminate Optical Metamaterials Crowned by Atomic-Layer Deposition. <i>Advanced Optical Materials</i> , 2016, 4, 1203-1208.	3.6	19
36	Mechanical Milling Assisted Synthesis and Electrochemical Performance of High Capacity LiFeBO <sub>3</sub> for Lithium Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 2166-2172.	4.0	18

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37	Grain boundary segregation induced precipitation in a non equiatomic nanocrystalline CoCuFeMnNi compositionally complex alloy. <i>Acta Materialia</i> , 2021, 220, 117281.	3.8	18
38	Tuning the Curie temperature of Fe <sub>90</sub> Sc <sub>10</sub> nanoglasses by varying the volume fraction and the composition of the interfaces. <i>Scripta Materialia</i> , 2019, 159, 109-112.	2.6	13
39	Unveiling local atomic bonding and packing of amorphous nanophases via independent component analysis facilitated pair distribution function. <i>Acta Materialia</i> , 2021, 212, 116932.	3.8	13
40	Quantifying the performance of a hybrid pixel detector with GaAs:Cr sensor for transmission electron microscopy. <i>Ultramicroscopy</i> , 2021, 227, 113298.	0.8	12
41	Spectroscopic investigations on the origin of the improved performance of composites of nanoparticles/graphene sheets as anodes for lithium ion batteries. <i>Carbon</i> , 2018, 127, 47-56.	5.4	11
42	Influence of a Second Cation ( <i>M</i> = Ca <sup>2+</sup> , Mg <sup>2+</sup> ) on the Phase Evolution of (Ba <sub>x</sub> M <sub>1-x</sub> )F <sub>2</sub> Starting from Amorphous Deposits. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2014, 640, 1868-1875.	0.6	10
43	Role of surface spins on magnetization of Cr <sub>2</sub> O <sub>3</sub> coated <sup>57</sup> Fe <sub>2</sub> O <sub>3</sub> nanoparticles. <i>Solid State Sciences</i> , 2018, 83, 43-48.	1.5	10
44	Investigating hybridization schemes of coupled split-ring resonators by electron impacts. <i>Optics Express</i> , 2015, 23, 20721.	1.7	7
45	New Insight into Desodiation/Sodiation Mechanism of MoS <sub>2</sub> : Sodium Insertion in Amorphous MoS <sub>2</sub> Clusters. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 40481-40488.	4.0	7
46	Reversible control of magnetism: on the conversion of hydrated FeF <sub>3</sub> with Li to Fe and LiF. <i>Journal of Materials Chemistry A</i> , 2019, 7, 24005-24011.	5.2	6
47	Low temperature structural stability of Fe <sub>90</sub> Sc <sub>10</sub> nanoglasses. <i>Materials Research Letters</i> , 2018, 6, 178-183.	4.1	4
48	Solar Fuels: Tailoring Surface Frustrated Lewis Pairs of In <sub>2</sub> O <sub>3</sub> ·x(OH) <sub>y</sub> for Gas-Phase Heterogeneous Photocatalytic Reduction of CO <sub>2</sub> by Isomorphous Substitution of In <sup>3+</sup> with Bi <sup>3+</sup> (Adv. Sci. 6/2018). <i>Advanced Science</i> , 2018, 5, 1870034.	5.6	3
49	Radial Distribution Function Imaging by Diffraction Scanning Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2016, 22, 488-489.	0.2	1
50	Comparison of energy filtered TEM spectra image and automated crystal orientation mapping in LiFePO <sub>4</sub> /FePO <sub>4</sub> phase mapping. <i>Microscopy and Microanalysis</i> , 2016, 22, 1296-1297.	0.2	1
51	4D-STEM Pair Distribution Function Mapping of the Morphology and Structure of Amorphous Organic Materials. <i>Microscopy and Microanalysis</i> , 2019, 25, 1944-1945.	0.2	1
52	Understanding Structure Changes during Cycling of MoS <sub>2</sub> -based Mg Batteries. <i>Microscopy and Microanalysis</i> , 2019, 25, 2042-2043.	0.2	0
53	4D-STEM: Combining Pair Distribution Mapping and Multivariate Statistic Analysis to Quantify Structures in Complex Nanoscale Glasses. <i>Microscopy and Microanalysis</i> , 2021, 27, 1788-1790.	0.2	0