Mianqi Xue

List of Publications by Year in descending order

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106 papers	5,321 citations	94269 37 h-index	85405 71 g-index
113 all docs	113 docs citations	113 times ranked	7992 citing authors

#	Article	IF	Citations
1	Observation of the Chiral-Anomaly-Induced Negative Magnetoresistance in 3D Weyl Semimetal TaAs. Physical Review X, 2015, 5, .	2.8	996
2	Towards a better Sn: Efficient electrocatalytic reduction of CO 2 to formate by Sn/SnS 2 derived from SnS 2 nanosheets. Nano Energy, 2017, 31, 270-277.	8.2	261
3	Structureâ€Based Enhanced Capacitance: In Situ Growth of Highly Ordered Polyaniline Nanorods on Reduced Graphene Oxide Patterns. Advanced Functional Materials, 2012, 22, 1284-1290.	7.8	241
4	Graphene as a conductive additive to enhance the high-rate capabilities of electrospun Li4Ti5O12 for lithium-ion batteries. Electrochimica Acta, 2010, 55, 5813-5818.	2.6	234
5	Processing of Graphene for Electrochemical Application: Noncovalently Functionalize Graphene Sheets with Water-Soluble Electroactive Methylene Green. Langmuir, 2009, 25, 12006-12010.	1.6	225
6	Unlocking the Electrocatalytic Activity of Antimony for CO₂ Reduction by Twoâ€Dimensional Engineering of the Bulk Material. Angewandte Chemie - International Edition, 2017, 56, 14718-14722.	7.2	164
7	Superconductivity above 30 K in alkali-metal-doped hydrocarbon. Scientific Reports, 2012, 2, 389.	1.6	155
8	Microfluidic etching for fabrication of flexible and all-solid-state micro supercapacitor based on MnO2 nanoparticles. Nanoscale, 2011, 3, 2703.	2.8	138
9	Highâ€Oriented Polypyrrole Nanotubes for Nextâ€Generation Gas Sensor. Advanced Materials, 2016, 28, 8265-8270.	11.1	128
10	Novel Metal Chalcogenide SnSSe as a Highâ€Capacity Anode for Sodiumâ€Ion Batteries. Advanced Materials, 2016, 28, 8645-8650.	11.1	123
11	Highly Sensitive Wearable Pressure Sensors Based on Three-Scale Nested Wrinkling Microstructures of Polypyrrole Films. ACS Applied Materials & Interfaces, 2018, 10, 25811-25818.	4.0	115
12	A Universal Approach to Aqueous Energy Storage via Ultralowâ€Cost Electrolyte with Superâ€Concentrated Sugar as Hydrogenâ€Bondâ€Regulated Solute. Advanced Materials, 2020, 32, e2000074.	11.1	110
13	Superconductivity in Potassium-Doped Few-Layer Graphene. Journal of the American Chemical Society, 2012, 134, 6536-6539.	6.6	106
14	Anion Concentration Gradient-Assisted Construction of a Solidâ€“Electrolyte Interphase for a Stable Zinc Metal Anode at High Rates. Journal of the American Chemical Society, 2022, 144, 11168-11177.	6.6	94
15	Recent advances in the photothermal applications of two-dimensional nanomaterials: photothermal therapy and beyond. Journal of Materials Chemistry A, 2021, 9, 17569-17591.	5.2	84
16	Stretchable Supercapacitor with Adjustable Volumetric Capacitance Based on 3D Interdigital Electrodes. Advanced Functional Materials, 2015, 25, 4601-4606.	7.8	79
17	Porous nitrogenâ€“doped carbon derived from biomass for electrocatalytic reduction of CO2 to CO. Electrochimica Acta, 2017, 245, 561-568.	2.6	76
18	Electrolyte regulation enhances the stability of Prussian blue analogues in aqueous Na-ion storage. Journal of Materials Chemistry A, 2019, 7, 1749-1755.	5.2	75

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19	Engineering Fast Ion Conduction and Selective Cation Channels for a Highâ€Rate and Highâ€Voltage Hybrid Aqueous Battery. Angewandte Chemie - International Edition, 2018, 57, 7046-7050.	7.2	71
20	Self-assembled ultrathin film of CNC/PVAâ€“liquid metal composite as a multifunctional Janus material. Materials Horizons, 2019, 6, 1643-1653.	6.4	67
21	Facile Patterning of Reduced Graphene Oxide Film into Microelectrode Array for Highly Sensitive Sensing. Analytical Chemistry, 2011, 83, 6426-6430.	3.2	63
22	Superconcentrated aqueous electrolyte to enhance energy density for advanced supercapacitors. Functional Materials Letters, 2017, 10, 1750081.	0.7	59
23	Unlocking the Electrocatalytic Activity of Antimony for CO₂ Reduction by Twoâ€Dimensional Engineering of the Bulk Material. Angewandte Chemie, 2017, 129, 14910-14914.	1.6	58
24	Transfer Printing of Metal Nanoparticles with Controllable Dimensions, Placement, and Reproducible Surface-Enhanced Raman Scattering Effects. Langmuir, 2009, 25, 4347-4351.	1.6	48
25	Size Engineering and Crystallinity Control Enable Highâ€Capacity Aqueous Potassiumâ€Ion Storage of Prussian White Analogues. ChemElectroChem, 2018, 5, 3887-3892.	1.7	48
26	Superconducting Continuous Graphene Fibers via Calcium Intercalation. ACS Nano, 2017, 11, 4301-4306.	7.3	47
27	Patterning of Electrostatic Charge on Electrets Using Hot Microcontact Printing. Angewandte Chemie - International Edition, 2009, 48, 6699-6703.	7.2	46
28	Li/K mixed superconcentrated aqueous electrolyte enables high-performance hybrid aqueous supercapacitors. Energy Storage Materials, 2019, 20, 373-379.	9.5	46
29	Selective Discharge of Electrostatic Charges on Electrets Using a Patterned Hydrogel Stamp. Angewandte Chemie - International Edition, 2010, 49, 5537-5540.	7.2	44
30	Unique Reversible Conversion-Type Mechanism Enhanced Cathode Performance in Amorphous Molybdenum Polysulfide. ACS Applied Materials & Interfaces, 2017, 9, 38606-38611.	4.0	42
31	Ultralow-limit gas detection in nano-dumbbell polymer sensor via electrospinning. Nanoscale, 2013, 5, 1803.	2.8	41
32	Advanced Composite 2D Energy Materials by Simultaneous Anodic and Cathodic Exfoliation. Advanced Energy Materials, 2018, 8, 1702794.	10.2	41
33	An open holey structure enhanced rate capability in a NaTi₂(PO₄)₃/C nanocomposite and provided ultralong-life sodium-ion storage. Nanoscale, 2018, 10, 958-963.	2.8	41
34	Facile Wearable Vapor/Liquid Amphibious Methanol Sensor. ACS Sensors, 2019, 4, 152-160.	4.0	41
35	Processing Matters: In situ Fabrication of Conducting Polymer Microsensors Enables Ultralowâ€Limit Gas Detection. Advanced Materials, 2008, 20, 2145-2150.	11.1	40
36	Unprecedented sensitivity towards pressure enabled by graphene foam. Nanoscale, 2017, 9, 19346-19352.	2.8	40

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37	Singleâ€Crystalâ€Conjugated Polymers with Extremely High Electron Sensitivity through Templateâ€Assisted In Situ Polymerization. Advanced Materials, 2015, 27, 5923-5929.	11.1	39
38	Atom-Thin SnS2â€“xSex with Adjustable Compositions by Direct Liquid Exfoliation from Single Crystals. ACS Nano, 2016, 10, 755-762.	7.3	39
39	Highly Efficient Photothermal Conversion of Ti₃C₂T_x/Ionic Liquid Gel Pen Ink for Smoothly Writing Ultrasensitive, Wide-Range Detecting, and Flexible Thermal Sensors. ACS Applied Materials & Interfaces, 2020, 12, 37637-37646.	4.0	38
40	Highly sensitive pressure sensors based on conducting polymer-coated paper. Sensors and Actuators B: Chemical, 2018, 273, 1195-1201.	4.0	37
41	Enhanced Ion Conduction via Epitaxially Polymerized Two-Dimensional Conducting Polymer for High-Performance Cathode in Zinc-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 9347-9354.	4.0	35
42	Carbonized poly(vinylidene fluoride)/graphene oxide with three-dimensional multiscale-pore architecture as an advanced electrode material. Journal of Materials Chemistry A, 2015, 3, 7715-7718.	5.2	34
43	Recent Research on Strategies to Improve Ion Conduction in Alkali Metalâ€Ion Batteries. Batteries and Supercaps, 2019, 2, 403-427.	2.4	32
44	In Situ Construction of a Multifunctional Quasi-Gel Layer for Long-Life Aqueous Zinc Metal Anodes. ACS Applied Materials & Interfaces, 2021, 13, 29746-29754.	4.0	31
45	Emergence of superconductivity in doped glassy-carbon. Carbon, 2016, 99, 585-590.	5.4	29
46	Buffer layer enhanced stability of sodium-ion storage. Journal of Power Sources, 2017, 369, 138-145.	4.0	28
47	Fabrication of Goldâ€Directed Conducting Polymer Nanoarrays for Highâ€Performance Gas Sensor. Chemistry - an Asian Journal, 2010, 5, 2266-2270.	1.7	27
48	Rewriting the Superconductivity in Ironâ€Based Superconductors by Lithiumâ€Ion Insertion and Extraction. Advanced Materials, 2015, 27, 4224-4228.	11.1	27
49	Thermochemical Patterning of Polymer Thin Films With Tunable Sizeâ€Reduction Effects Using Metalâ€Coated Poly(dimethylsiloxane) Stamps. Advanced Materials, 2009, 21, 2211-2215.	11.1	26
50	Selfâ€Healing Allâ€inâ€One Energy Storage for Flexible Selfâ€Powering Ammonia Smartsensors. Energy and Environmental Materials, 2022, 5, 986-995.	7.3	26
51	Facile Fabrication of Metallic Nanostructures by Tunable Cracking and Transfer Printing. Angewandte Chemie - International Edition, 2011, 50, 12478-12482.	7.2	25
52	Auto-generated iron chalcogenide microcapsules ensure high-rate and high-capacity sodium-ion storage. Nanoscale, 2018, 10, 800-806.	2.8	25
53	Flexible Au nanoparticle arrays induced metal-enhanced fluorescence towards pressure sensors. Journal of Materials Chemistry, 2011, 21, 5234.	6.7	24
54	Conducting Polymer Based Visualâ€Aided Smart Thermosensors on Arbitrary Substrates. Advanced Functional Materials, 2017, 27, 1702706.	7.8	23

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55	Magnetotransport properties in a compensated semimetal gray arsenic. Physical Review B, 2017, 95, .	1.1	22
56	Fabrication of ultra-fine nanostructures using edge transfer printing. Nanoscale, 2012, 4, 1939.	2.8	21
57	Direct Pen Writing of Highâ€T_c, Flexible Magnesium Diboride Superconducting Arrays. Advanced Materials, 2015, 27, 3614-3619.	11.1	21
58	Reduced Graphene Oxide-Polypyrrole Aerogel-Based Coaxial Heterogeneous Microfiber Enables Ultrasensitive Pressure Monitoring of Living Organisms. ACS Applied Materials & Interfaces, 2021, 13, 5425-5434.	4.0	21
59	Ultrahigh photothermal temperature in a graphene/conducting polymer system enables contact thermochemical reaction. Journal of Materials Chemistry A, 2020, 8, 10891-10897.	5.2	20
60	Gradual-order enhanced stability: a frozen section of electrospun nanofibers for energy storage. Nanoscale, 2015, 7, 8715-8719.	2.8	19
61	Recent Progresses on Applications of Conducting Polymers for Modifying Electrode of Rechargeable Batteries. Advanced Energy and Sustainability Research, 2021, 2, 2100088.	2.8	19
62	A hybrid superconcentrated electrolyte enables 2.5 V carbon-based supercapacitors. Chemical Communications, 2020, 56, 7965-7968.	2.2	18
63	Cold direct pen writing of reduced graphene oxide foams for ultrasensitive micro-contact force probing. Carbon, 2020, 157, 140-146.	5.4	17
64	Ultrahigh Sensitive Wearable Pressure Sensors Based on Reduced Graphene Oxide/Polypyrrole Foam for Sign Language Translation. Advanced Materials Technologies, 2021, 6, 2001188.	3.0	15
65	Highly Selective Wearable Smartsensors for Vapor/Liquid Amphibious Methanol Monitoring. Analytical Chemistry, 2020, 92, 5897-5903.	3.2	14
66	Realizing Longâ€Range Orientational Order in Conjugated Polymers via Solventless Polymerization Strategy. Macromolecular Chemistry and Physics, 2020, 221, 1900534.	1.1	14
67	Ab Initio Design of Graphene Block Enables Ultrasensitivity, Multimeterâ€Like Range Switchable Pressure Sensor. Advanced Materials Technologies, 2019, 4, 1800531.	3.0	13
68	Size-tunable, highly sensitive microelectrode arrays enabled by polymer pen lithography. Soft Matter, 2017, 13, 3685-3689.	1.2	12
69	Engineering Fast Ion Conduction and Selective Cation Channels for a Highâ€Rate and Highâ€Voltage Hybrid Aqueous Battery. Angewandte Chemie, 2018, 130, 7164-7168.	1.6	12
70	Graphene/high-oriented polypyrrole foam enables new-type ultrasensitive micro-distance detection. Chemical Engineering Journal, 2020, 402, 126236.	6.6	12
71	All-in-One ENERGISER design: Smart liquid metal-air battery. Chemical Engineering Journal, 2021, 409, 128160.	6.6	12
72	Colloidal Pen Lithography. Small, 2015, 11, 548-552.	5.2	11

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73	Touching the theoretical capacity: synthesizing cubic LiTi₂(PO₄)₃/C nanocomposites for high-performance lithium-ion battery. Nanoscale, 2018, 10, 6282-6287.	2.8	11
74	Highly faceted layered orientation in SnSSe nanosheets enables facile Li+-Diffusion channels. Electrochimica Acta, 2019, 318, 937-948.	2.6	11
75	Research Progress and Practical Challenges of Aqueous Sodium-Ion Batteries. Acta Chimica Sinica, 2021, 79, 388.	0.5	11
76	Effects of disorder and hydrostatic pressure on charge density wave and superconductivity in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>2</mml:mn><mml:mi>H</mml:mi></mml:mrow><mml:m Physical Review B, 2021, 103, .	1.1	11
77	Tunable metallic-like transport in polypyrrole. Materials Futures, 2022, 1, 011001.	3.1	11
78	Improved Li+ diffusion enabled by SEI film in a high-energy-density hybrid magnesium-ion battery. Journal of Power Sources, 2019, 441, 227190.	4.0	10
79	Inkjet printed 2D SnS₂ nanosheets for ammonia gas sensor. Materials Research Express, 2019, 6, 015025.	0.8	10
80	Superconducting phase diagrams of S-doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>2</mml:mn><mml:mi>H</mml:mi><mml:mtext>â^'</mml:mtext><mml:msub><mml:mi mathvariant="normal">Se</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> under hydrostatic pressure. Physical Review B, 2020, 102, .	1.1	10
81	Light-induced electrostatic lithography: selective discharge of electrets by utilizing photothermal conversion of Ti₃C₂T_x MXene. Journal of Materials Chemistry A, 2020, 8, 19022-19027.	5.2	9
82	Fabrication of Ultrafine Soft-Matter Arrays by Selective Contact Thermochemical Reaction. Scientific Reports, 2013, 3, .	1.6	8
83	Selfâ€Healing and Shapeâ€Memory Superconducting Devices. Macromolecular Materials and Engineering, 2020, 305, 1900581.	1.7	8
84	Fabrication of ultrafine protein arrays on easy-fabricated metallic nanostructures. Scripta Materialia, 2008, 58, 854-857.	2.6	7
85	Thinner is Better: An Ultrathin Conducting Oligoaniline Film for Gas Microsensors with Ultralow Detection Limits. Macromolecular Rapid Communications, 2009, 30, 1589-1593.	2.0	6
86	Mutual Independence Ensured Long-Term Cycling Stability: Template-Free Electrodeposited Sn₄Ni₃ Nanoparticles as Anode Material for Lithium-Ion Batteries. ACS Applied Energy Materials, 2018, 1, 312-318.	2.5	5
87	Sodiumâ€Ion Batteries: Novel Metal Chalcogenide SnSSe as a Highâ€Capacity Anode for Sodiumâ€Ion Batteries (Adv. Mater. 39/2016). Advanced Materials, 2016, 28, 8786-8786.	11.1	4
88	A graphene-based smart thermal conductive system regulated by a reversible pressure-induced mechanism. Nanoscale, 2019, 11, 11730-11735.	2.8	4
89	Recent progresses of metal-organic framework-based materials in electrochemical energy storage. Materials Today Sustainability, 2022, 19, 100174.	1.9	4
90	Selective ion transport in assembled graphene oxide-modified separator and the novel intra-series architecture for improved aqueous batteries. Chemical Engineering Journal, 2022, 450, 138061.	6.6	4

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91	Supercapacitors: Stretchable Supercapacitor with Adjustable Volumetric Capacitance Based on 3D Interdigital Electrodes (Adv. Funct. Mater. 29/2015). Advanced Functional Materials, 2015, 25, 4562-4562.	7.8	3
92	Liquid Exfoliation of Few-layer 1T-TaS2â^'x Se x Superconductors. Journal of Superconductivity and Novel Magnetism, 2018, 31, 1005-1011.	0.8	3
93	A Polyester/Polypyrrole Textileâ€Based Ultrasensitive Wearable Microdistance Sensor. Macromolecular Materials and Engineering, 2021, 306, 2100478.	1.7	3
94	Twoâ€Dimensional Transition Metal Dichalcogenides for Electrocatalytic Energy Conversion Applications. , 0, , .		2
95	Tailorable graphene-based superconducting films via self-assembly and in-situ doping. Carbon, 2019, 152, 527-531.	5.4	2
96	Magnetocaloric effect and critical behavior of the Mn-rich itinerant material Mn3GaC with enhanced ferromagnetic interaction. Chinese Physics B, 2020, 29, 047503.	0.7	2
97	Bioinspired Gasâ€Confined Hollow Microfiber with 2D Conducting Polymer/Graphene Skeleton for Ultrasensitive Liquid Environment Sensor. Advanced Materials Interfaces, 2021, 8, .	1.9	2
98	The influence of crystal growth mechanism based on various sulfur sources on the morphology, component and electrochemical performance of cobalt sulfide as anode material for sodium-ion batteries. Journal of Alloys and Compounds, 2022, 907, 164483.	2.8	2
99	Rapid Sonochemical Synthesis of an Intercalated Superconductor. ChemistrySelect, 2018, 3, 5652-5659.	0.7	1
100	Single crystal growth and ferromagnetism of Cr-doped Sb4Te3. Journal of Physics Condensed Matter, 2020, 32, 235801.	0.7	1
101	Fluorine-Rich Interphase and Desolvation Regulation for a Long-Life and High-Rate TiS₂-Based Li-Metal Battery. Journal of Physical Chemistry C, 2022, 126, 5122-5130.	1.5	1
102	The balanced improvement of electrochemical performance of cobalt disulfide anode material for sodium-ion batteries by constructing reduced graphene oxide conductive network based on â€œbucket principleâ€• Journal of Alloys and Compounds, 2022, 922, 166235.	2.8	1
103	Conjugated Polymers: Singleâ€Crystalâ€Conjugated Polymers with Extremely High Electron Sensitivity through Templateâ€Assisted In Situ Polymerization (Adv. Mater. 39/2015). Advanced Materials, 2015, 27, 5850-5850.	11.1	0
104	Superconductivity: Rewriting the Superconductivity in Ironâ€Based Superconductors by Lithiumâ€Ion Insertion and Extraction (Adv. Mater. 28/2015). Advanced Materials, 2015, 27, 4106-4106.	11.1	0
105	Noncontact and Highâ€Accuracy Smart Thermosensors Based on the Thermalâ€Field Resistivity Response of Conducting Polymers. Advanced Materials Technologies, 2018, 3, 1800086.	3.0	0
106	Titelbild: Engineering Fast Ion Conduction and Selective Cation Channels for a High-Rate and High-Voltage Hybrid Aqueous Battery (Angew. Chem. 24/2018). Angewandte Chemie, 2018, 130, 7065-7065.	1.6	0