Anmin Nie

List of Publications by Year
in descending order

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164 papers	7,818 citations	53794 45 h-index	56724 83 g-index
164 all docs	164 docs citations	164 times ranked	10629 citing authors

#	Article	IF	Citations
1	Carbothermal shock synthesis of high-entropy-alloy nanoparticles. Science, 2018, 359, 1489-1494.	12.6	1,065
2	Structural and Electrochemical Study of Al₂O₃ and TiO₂ Coated Li_{1.2}Ni_{0.13}Mn_{0.54}Co_{0.13}O₂ Cathode Material Using ALD. Advanced Energy Materials, 2013, 3, 1299-1307.	19.5	418
3	Evolution of Lattice Structure and Chemical Composition of the Surface Reconstruction Layer in Li_{1.2}Ni_{0.2}Mn_{0.6}O₂ Cathode Material for Lithium Ion Batteries. Nano Letters, 2015, 15, 514-522.	9.1	261
4	Highâ€Lithiumâ€Affinity Chemically Exfoliated 2D Covalent Organic Frameworks. Advanced Materials, 2019, 31, e1901640.	21.0	217
5	Nanoceria-Supported Single-Atom Platinum Catalysts for Direct Methane Conversion. ACS Catalysis, 2018, 8, 4044-4048.	11.2	214
6	Atomically dispersed hierarchically ordered porous Feâ€“Nâ€“C electrocatalyst for high performance electrocatalytic oxygen reduction in Zn-Air battery. Nano Energy, 2020, 71, 104547.	16.0	206
7	Insight into Si poisoning on grain refinement of Al-Si/Al-5Ti-B system. Acta Materialia, 2020, 187, 51-65.	7.9	195
8	The influence of large cations on the electrochemical properties of tunnel-structured metal oxides. Nature Communications, 2016, 7, 13374.	12.8	180
9	Asynchronous Crystal Cell Expansion during Lithiation of K⁺-Stabilized Î±-MnO₂. Nano Letters, 2015, 15, 2998-3007.	9.1	161
10	Uniform Lithium Deposition Assisted by Singleâ€Atom Doping toward Highâ€Performance Lithium Metal Anodes. Advanced Energy Materials, 2019, 9, 1804019.	19.5	151
11	Lithium metal protected by atomic layer deposition metal oxide for high performance anodes. Journal of Materials Chemistry A, 2017, 5, 12297-12309.	10.3	150
12	Nonvolatile Ferroelectric Memory Effect in Ultrathin Î±â€In₂Se₃. Advanced Functional Materials, 2019, 29, 1808606.	14.9	137
13	Atomic-Scale Observation of Lithiation Reaction Front in Nanoscale SnO₂ Materials. ACS Nano, 2013, 7, 6203-6211.	14.6	134
14	Insight into Sulfur Reactions in Liâ€“S Batteries. ACS Applied Materials & Interfaces, 2014, 6, 21938-21945.	8.0	120
15	Origin of the Phase Transition in Lithiated Molybdenum Disulfide. ACS Nano, 2014, 8, 11447-11453.	14.6	111
16	Blackâ€Phosphorusâ€Incorporated Hydrogel as a Conductive and Biodegradable Platform for Enhancement of the Neural Differentiation of Mesenchymal Stem Cells. Advanced Functional Materials, 2020, 30, 2000177.	14.9	100
17	Facet-Dependent Thermal Instability in LiCoO₂. Nano Letters, 2017, 17, 2165-2171.	9.1	99
18	Submillimeter and lead-free Cs₃Sb₂Br₉perovskite nanoflakes: inverse temperature crystallization growth and application for ultrasensitive photodetectors. Nanoscale Horizons, 2019, 4, 1372-1379.	8.0	85

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19	Coral-like Ni_xCo_{1â^'x}Se₂ for Na-ion battery with ultralong cycle life and ultrahigh rate capability. Journal of Materials Chemistry A, 2019, 7, 3933-3940.	10.3	85
20	Conversion of Intercalated MoO₃ to Multiâ€Heteroatomsâ€Doped MoS₂ with High Hydrogen Evolution Activity. Advanced Materials, 2020, 32, e2001167.	21.0	82
21	Ultrafast and Highly Reversible Sodium Storage in Zincâ€Antimony Intermetallic Nanomaterials. Advanced Functional Materials, 2016, 26, 543-552.	14.9	81
22	Improved Electrochemical Performances of LiCoO₂ at Elevated Voltage and Temperature with an In Situ Formed Spinel Coating Layer. ACS Applied Materials & Interfaces, 2018, 10, 31271-31279.	8.0	81
23	Twin Boundary-Assisted Lithium Ion Transport. Nano Letters, 2015, 15, 610-615.	9.1	80
24	In Situ Transmission Electron Microscopy Observation of Sodiationâ€“Desodiation in a Long Cycle, High-Capacity Reduced Graphene Oxide Sodium-Ion Battery Anode. Chemistry of Materials, 2016, 28, 6528-6535.	6.7	79
25	Selective Ionic Transport Pathways in Phosphorene. Nano Letters, 2016, 16, 2240-2247.	9.1	79
26	Achieving Stable Cycling of LiCoO₂ at 4.6 V by Multilayer Surface Modification. Advanced Functional Materials, 2021, 31, 2001974.	14.9	77
27	Direct Evidence of Lithium-Induced Atomic Ordering in Amorphous TiO₂ Nanotubes. Chemistry of Materials, 2014, 26, 1660-1669.	6.7	75
28	Approaching diamondâ€™s theoretical elasticity and strength limits. Nature Communications, 2019, 10, 5533.	12.8	73
29	Atomically Resolving Polymorphs and Crystal Structures of In₂Se₃. Chemistry of Materials, 2019, 31, 10143-10149.	6.7	71
30	In Situ Phase Separation into Coupled Interfaces for Promoting CO₂ Electroreduction to Formate over a Wide Potential Window. Angewandte Chemie - International Edition, 2021, 60, 22940-22947.	13.8	67
31	Atomistic Insights into the Oriented Attachment of Tunnel-Based Oxide Nanostructures. ACS Nano, 2016, 10, 539-548.	14.6	66
32	Lateral Bilayer MoS₂â€“WS₂ Heterostructure Photodetectors with High Responsivity and Detectivity. Advanced Optical Materials, 2019, 7, 1900815.	7.3	65
33	Direct observation of the formation and stabilization of metallic nanoparticles on carbon supports. Nature Communications, 2020, 11, 6373.	12.8	65
34	Twoâ€Dimensionalâ€Germanium Phosphideâ€Reinforced Conductive and Biodegradable Hydrogel Scaffolds Enhance Spinal Cord Injury Repair. Advanced Functional Materials, 2021, 31, 2104440.	14.9	65
35	Quasi-Two-Dimensional Se-Terminated Bismuth Oxychalcogenide (Bi₂O₂Se). ACS Nano, 2019, 13, 13439-13444.	14.6	61
36	Revealing nanoscale mineralization pathways of hydroxyapatite using in situ liquid cell transmission electron microscopy. Science Advances, 2020, 6, .	10.3	61

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37	Hierarchical iridium-based multimetallic alloy with double-core-shell architecture for efficient overall water splitting. Science China Materials, 2020, 63, 249-257.	6.3	59
38	Tailored architectures of FeNi alloy embedded in N-doped carbon as bifunctional oxygen electrocatalyst for rechargeable Zinc-air battery. Journal of Colloid and Interface Science, 2020, 561, 585-592.	9.4	59
39	Atomic-Scale Observation of Reversible Thermally Driven Phase Transformation in 2D In₂Se₃. ACS Nano, 2019, 13, 8004-8011.	14.6	57
40	Orthogonal Electric Control of the Outâ€Ofâ€Plane Fieldâ€Effect in 2D Ferroelectric Î±â€In₂Se₃. Advanced Electronic Materials, 2020, 6, 2000061.	5.1	56
41	Sodium-Induced Reordering of Atomic Stacks in Black Phosphorus. Chemistry of Materials, 2017, 29, 1350-1356.	6.7	55
42	Dynamic study of (De)sodiation in alpha-MnO2 nanowires. Nano Energy, 2016, 19, 382-390.	16.0	54
43	Origin of the improved reactivity of MoS2 single crystal by confining lattice Fe atom in peroxymonosulfate-based Fenton-like reaction. Applied Catalysis B: Environmental, 2021, 298, 120537.	20.2	53
44	Molecular dynamics simulation on deformation mechanisms in body-centered-cubic molybdenum nanowires. Journal of Applied Physics, 2011, 110, .	2.5	52
45	Atomic Origins of Monoclinic-Tetragonal (Rutile) Phase Transition in Doped VO₂ Nanowires. Nano Letters, 2015, 15, 7179-7188.	9.1	52
46	Discovery of carbon-based strongest and hardest amorphous material. National Science Review, 2022, 9, nwab140.	9.5	49
47	Direct Observation of Room-Temperature Dislocation Plasticity in Diamond. Matter, 2020, 2, 1222-1232.	10.0	48
48	Application of hard ceramic materials B4C in energy storage: Design B4C@C core-shell nanoparticles as electrodes for flexible all-solid-state micro-supercapacitors with ultrahigh cyclability. Nano Energy, 2020, 75, 104947.	16.0	47
49	Sodium storage mechanism and electrochemical performance of layered GeP as anode for sodium ion batteries. Journal of Power Sources, 2019, 433, 126682.	7.8	46
50	Enabling Anionic Redox Stability of P2â€Na_{5/6}Li_{1/4}Mn_{3/4}O₂ by Mg Substitution. Advanced Materials, 2022, 34, e2105404.	21.0	46
51	Catalytic Oxidation of Chlorobenzene over V₂O₅/TiO₂â€“Carbon Nanotubes Composites. Industrial & Engineering Chemistry Research, 2011, 50, 9944-9948.	3.7	45
52	In Situ TEM Investigation of ZnO Nanowires during Sodiation and Lithiation Cycling. Small Methods, 2017, 1, 1700202.	8.6	45
53	Inclined Ultrathin Bi₂O₂Se Films: A Building Block for Functional van der Waals Heterostructures. ACS Nano, 2020, 14, 16803-16812.	14.6	45
54	Highâ€Temperature Atomic Mixing toward Wellâ€Dispersed Bimetallic Electrocatalysts. Advanced Energy Materials, 2018, 8, 1800466.	19.5	43

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55	A Strategy for Synthesis of Nanosheets Consisting of Alternating Spinel Li₄Ti₅O₁₂ and Rutile TiO₂ Lamellas for High-Rate Anodes of Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 4649-4657.	8.0	42
56	Grain-boundary-rich polycrystalline monolayer WS2 film for attomolar-level Hg2+ sensors. Nature Communications, 2021, 12, 3870.	12.8	42
57	Polypyrrole coated 3D flower MoS2 composites with tunable impedance for excellent microwave absorption performance. Journal of Alloys and Compounds, 2021, 888, 161487.	5.5	38
58	2D Hybrid Superlattice-Based On-Chip Electrocatalytic Microdevice for in Situ Revealing Enhanced Catalytic Activity. ACS Nano, 2020, 14, 1635-1644.	14.6	36
59	Well-controlled Core-shell structures based on Fe3O4 nanospheres coated by polyaniline for highly efficient microwave absorption. Applied Surface Science, 2022, 591, 153176.	6.1	35
60	Catalytic Reduction of NO with NH3 over V2O5-MnOX/TiO2-Carbon Nanotube Composites. Catalysis Letters, 2011, 141, 1237-1242.	2.6	34
61	Epitaxial TiO2/SnO2 coreâ€“shell heterostructure by atomic layer deposition. Journal of Materials Chemistry, 2012, 22, 10665.	6.7	34
62	In Situ High Temperature Synthesis of Single-Component Metallic Nanoparticles. ACS Central Science, 2017, 3, 294-301.	11.3	34
63	Broadband photodetector of high quality Sb2S3 nanowire grown by chemical vapor deposition. Journal of Materials Science and Technology, 2021, 75, 14-20.	10.7	34
64	Narrowing Working Voltage Window to Improve Layered GeP Anode Cycling Performance for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 17466-17473.	8.0	33
65	Liquid-exfoliation of S-doped black phosphorus nanosheets for enhanced oxygen evolution catalysis. Nanotechnology, 2019, 30, 035701.	2.6	32
66	Catalytic Oxidation of Chlorobenzene over MnO x /Al2O3-carbon Nanotubes Composites. Catalysis Letters, 2011, 141, 158-162.	2.6	31
67	Metallic layered germanium phosphide GeP₅ for high rate flexible all-solid-state supercapacitors. Journal of Materials Chemistry A, 2018, 6, 19409-19416.	10.3	31
68	Facile preparation of CoS2 nanoparticles embedded into polyaniline with tunable electromagnetic wave absorption performance. Materials Chemistry and Physics, 2020, 246, 122835.	4.0	31
69	In situ TEM study on crack propagation in nanoscale Au thin films. Scripta Materialia, 2011, 65, 377-379.	5.2	30
70	Metalâ€“organic framework derived cobalt phosphosulfide with ultrahigh microwave absorption properties. Nanotechnology, 2018, 29, 405703.	2.6	30
71	Real-Time TEM Study of Nanopore Evolution in Battery Materials and Their Suppression for Enhanced Cycling Performance. Nano Letters, 2019, 19, 3074-3082.	9.1	29
72	Ultrathin FeTe nanosheets with tetragonal and hexagonal phases synthesized by chemical vapor deposition. Materials Today, 2021, 45, 35-43.	14.2	29

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73	In Situ, Fast, Highâ€Temperature Synthesis of Nickel Nanoparticles in Reduced Graphene Oxide Matrix. Advanced Energy Materials, 2017, 7, 1601783.	19.5	27
74	Discovering a First-Order Phase Transition in the Liâ€“CeO₂ System. Nano Letters, 2017, 17, 1282-1288.	9.1	27
75	In situ TEM and half cell investigation of sodium storage in hexagonal FeSe nanoparticles. Chemical Communications, 2019, 55, 5611-5614.	4.1	27
76	Honeycomb RhI₃ Flakes with High Environmental Stability for Optoelectronics. Advanced Materials, 2020, 32, e2001979.	21.0	27
77	Microwave absorbing properties of two dimensional materials GeP5 enhanced after annealing treatment. Applied Physics Letters, 2019, 114, .	3.3	24
78	Proximity Enhanced Hydrogen Evolution Reactivity of Substitutional Doped Monolayer WS₂. ACS Applied Materials & Interfaces, 2021, 13, 19406-19413.	8.0	24
79	Scanning distortion correction in STEM images. Ultramicroscopy, 2018, 184, 274-283.	1.9	23
80	Systematic investigation of the Binder's role in the electrochemical performance of tin sulfide electrodes in SIBs. Journal of Power Sources, 2018, 401, 195-203.	7.8	23
81	Microwave absorption properties of heterostructure composites of two dimensional layered magnetic materials and graphene nanosheets. Applied Physics Letters, 2019, 115, .	3.3	23
82	Siliconâ€Phosphorusâ€Nanosheetsâ€Integrated 3Dâ€Printable Hydrogel as a Bioactive and Biodegradable Scaffold for Vascularized Bone Regeneration. Advanced Healthcare Materials, 2022, 11, e2101911.	7.6	23
83	In Situ Transmission Electron Microscopy Explores a New Nanoscale Pathway for Direct Gypsum Formation in Aqueous Solution. ACS Applied Nano Materials, 2018, 1, 5430-5440.	5.0	22
84	A global view of the phase transitions of SnO₂ in rechargeable batteries based on results of high throughput calculations. Journal of Materials Chemistry A, 2015, 3, 19483-19489.	10.3	21
85	Photoluminescence and Raman Spectra Oscillations Induced by Laser Interference in Annealingâ€Created Monolayer WS₂ Bubbles. Advanced Optical Materials, 2019, 7, 1801373.	7.3	21
86	Enhanced cycling stability of high voltage LiCoO2 by surface phosphorylation. Journal of Alloys and Compounds, 2019, 803, 348-353.	5.5	21
87	Structural Insights into the Lithium Ion Storage Behaviors of Niobium Tungsten Double Oxides. Chemistry of Materials, 2022, 34, 388-398.	6.7	21
88	Electrical failure behaviors of semiconductor oxide nanowires. Nanotechnology, 2011, 22, 405703.	2.6	19
89	Deformation-mediated phase transformation in gold nano-junction. Materials Letters, 2011, 65, 3380-3383.	2.6	18
90	Lithiation-Induced Shuffling of Atomic Stacks. Nano Letters, 2014, 14, 5301-5307.	9.1	18

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91	Synergistic Additiveâ€Assisted Growth of 2D Ternary In₂SnS₄ with Giant Gateâ€Tunable Polarizationâ€Sensitive Photoresponse. Small, 2021, 17, e2008078.	10.0	18
92	Scalable Van der Waals Encapsulation by Inorganic Molecular Crystals. Advanced Materials, 2022, 34, e2106041.	21.0	18
93	Strain Release Induced Novel Fluorescence Variation in CVD-Grown Monolayer WS₂ Crystals. ACS Applied Materials & Interfaces, 2017, 9, 34071-34077.	8.0	17
94	Layered porous materials indium triphosphide InP3 for high-performance flexible all-solid-state supercapacitors. Journal of Power Sources, 2019, 438, 227010.	7.8	17
95	Iridium Doping Boosting the Electrochemical Performance of Lithium-Rich Cathodes for Li-Ion Batteries. ACS Applied Energy Materials, 2021, 4, 2489-2495.	5.1	17
96	Highâ€Performance Broadband Photodetectors of Heterogeneous 2D Inorganic Molecular Sb₂O₃/Monolayer MoS₂ Crystals Grown via Chemical Vapor Deposition. Advanced Optical Materials, 2020, 8, 2000168.	7.3	17
97	Effect of layer and stacking sequence in simultaneously grown 2H and 3R WS₂ atomic layers. Nanotechnology, 2019, 30, 345203.	2.6	16
98	Facile Synthesis of Carbon-Encapsulated Ni Nanoparticles Embedded into Porous Graphite Sheets as High-Performance Microwave Absorber. ACS Sustainable Chemistry and Engineering, 2018, 6, 16179-16185.	6.7	15
99	Small onion-like BN leads to ultrafine-twinned cubic BN. Science China Materials, 2019, 62, 1169-1176.	6.3	15
100	Static and dynamic characteristics of magnetism in permalloy oval nanoring by micromagnetic simulation. Journal of Magnetism and Magnetic Materials, 2019, 474, 301-304.	2.3	15
101	Mechanical Robustness Two-Dimensional Silicon Phosphide Flake Anodes for Lithium Ion Batteries. ACS Sustainable Chemistry and Engineering, 2020, 8, 17597-17605.	6.7	15
102	Atomic resolution observation of conversion-type anode RuO₂during the first electrochemical lithiation. Nanotechnology, 2015, 26, 125404.	2.6	14
103	Grain wall boundaries in centimeter-scale continuous monolayer WS₂ film grown by chemical vapor deposition. Nanotechnology, 2018, 29, 255705.	2.6	14
104	All roads lead to Rome: Sodiation of different-stacked SnS2. Nano Energy, 2020, 67, 104276.	16.0	14
105	Facile preparation of carbon nanosheet frameworks/magnetic nanohybrids with heterogeneous interface as an excellent microwave absorber. Journal of Alloys and Compounds, 2020, 838, 155586.	5.5	14
106	Flexible Aramid Nanofiber/Bacterial Cellulose/Graphene Papers with Nickel Nanoparticles for Enhanced Electromagnetic Interference Shielding and Joule Heating Performance. ACS Applied Nano Materials, 2022, 5, 5589-5598.	5.0	14
107	Multifunctional Bacterial Cellulose Nanofibers/Polypyrrole (PPy) Composite Films for Joule Heating and Electromagnetic Interference Shielding. ACS Applied Electronic Materials, 2022, 4, 2552-2560.	4.3	14
108	Capacity retention behavior and morphology evolution of Si_xGe_{1â^'x}nanoparticles as lithium-ion battery anode. Nanotechnology, 2015, 26, 255702.	2.6	13

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109	Simple preparation and excellent microwave attenuation property of Fe3O4- and FeS2- decorated graphene nanosheets by liquid-phase exfoliation. Journal of Alloys and Compounds, 2019, 810, 151881.	5.5	13
110	One-step growth of wafer-scale monolayer tungsten disulfide via hydrogen sulfide assisted chemical vapor deposition. Applied Physics Letters, 2019, 115, .	3.3	13
111	Photodetection application of one-step synthesized wafer-scale monolayer MoS2 by chemical vapor deposition. 2D Materials, 2020, 7, 025020.	4.4	13
112	Enhanced microwave absorption properties of MnS2 microspheres interspersed with carbon nanotubes. Journal of Magnetism and Magnetic Materials, 2020, 502, 166432.	2.3	13
113	High-sensitivity and versatile plasmonic biosensor based on grain boundaries in polycrystalline 1L WS2 films. Biosensors and Bioelectronics, 2021, 194, 113596.	10.1	13
114	One-Step Growth of Spatially Graded Mo_{1â€“x}W_xS₂ Monolayers with a Wide Span in Composition (from x = 0 to 1) at a Large Scale. ACS Applied Materials & Interfaces, 2019, 11, 20979-20986.	8.0	12
115	Direct evidence of M2 phase during the monoclinic-tetragonal (rutile) phase transition of W-doped VO2 nanowires. Applied Physics Letters, 2017, 110, .	3.3	11
116	Pressure Effect on Orderâ€“Disorder Ferroelectric Transition in a Hydrogen-Bonded Metalâ€“Organic Framework. Journal of Physical Chemistry Letters, 2020, 11, 9566-9571.	4.6	11
117	In Situ Phase Separation into Coupled Interfaces for Promoting CO₂ Electroreduction to Formate over a Wide Potential Window. Angewandte Chemie, 2021, 133, 23122-23129.	2.0	11
118	In Situ Grown Ultrafine RuO₂ Nanoparticles on GeP₅ Nanosheets as the Electrode Material for Flexible Planar Micro-Supercapacitors with High Specific Capacitance and Cyclability. ACS Applied Materials & Interfaces, 2021, 13, 47560-47571.	8.0	11
119	Grain boundary structure dependent fracture in nanocrystalline Au films. Materials Letters, 2011, 65, 2769-2771.	2.6	10
120	High-performance flexible all-solid-state micro-supercapacitors based on two-dimensional InSe nanosheets. Journal of Power Sources, 2021, 482, 228987.	7.8	10
121	Accelerated Degradation of CrCl₃ Nanoflakes Induced by Metal Electrodes: Implications for Remediation in Nanodevice Fabrication. ACS Applied Nano Materials, 2019, 2, 1597-1603.	5.0	9
122	Room-temperature plasticity in diamond. Science China Technological Sciences, 2021, 64, 32-36.	4.0	9
123	Defect-driven room-temperature coalescence of double-walled carbon nanotubes. Nanotechnology, 2010, 21, 245302.	2.6	8
124	Atomic-scale observation of the deformation and failure of diamonds by in-situ double-tilt mechanical testing transmission electron microscope holder. Science China Materials, 2020, 63, 2335-2343.	6.3	8
125	Engineering a Local Free Water Enriched Microenvironment for Surpassing Platinum Hydrogen Evolution Activity. Angewandte Chemie, 2022, 134, .	2.0	8
126	In SituStudy of Thermal Stability of Copper Oxide Nanowires at Anaerobic Environment. Journal of Nanomaterials, 2014, 2014, 1-6.	2.7	7

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127	Cracks Formation in Lithium-Rich Cathode Materials for Lithium-Ion Batteries during the Electrochemical Process. Energies, 2018, 11, 2712.	3.1	7
128	Two-dimensional layered materials InSe nanoflakes/carbon nanotubes composite for flexible all-solid-state supercapacitors. Journal of Materials Science, 2020, 55, 2947-2957.	3.7	7
129	Influence of van der Waals epitaxy on phase transformation behaviors in 2D heterostructure. Applied Physics Letters, 2020, 116, .	3.3	7
130	Atomic-Scale Visualization of Polar Domain Boundaries in Ferroelectric In₂Se₃ at the Monolayer Limit. Journal of Physical Chemistry Letters, 2021, 12, 11902-11909.	4.6	7
131	Microstructure-Dependent Conformal Atomic Layer Deposition on 3D Nanotopography. Langmuir, 2012, 28, 15809-15815.	3.5	6
132	In situ high resolution transmission electron microscopy investigation of deformation mechanism in sub-10-nm Au crystals. Materials Science and Technology, 2014, 30, 774-781.	1.6	6
133	Carbonaceous photonic crystals prepared by high-temperature/hydrothermal carbonization as high-performance microwave absorbers. Journal of Materials Science, 2019, 54, 14343-14353.	3.7	6
134	Electric field control of nonvolatile twoâ€state magnetoelectric coefficient at room temperature in a hexaferrite. Journal of the American Ceramic Society, 2020, 103, 4384-4389.	3.8	6
135	Room-temperature electric field modulation of magnetization in a helimagnet. Journal Physics D: Applied Physics, 2020, 53, 025001.	2.8	5
136	Hydrogen Bond Tuning of Magnetoelectric Coupling in Metalâ€“Organic Frameworks. Journal of Physical Chemistry C, 2020, 124, 16111-16115.	3.1	5
137	Epitaxial growth of large-grain-size ferromagnetic monolayer CrI₃ for valley Zeeman splitting enhancement. Nanoscale, 2021, 13, 2955-2962.	5.6	5
138	Alloy engineered germanium monochalcogenide with tunable bandgap for broadband optoelectrical applications. Physical Review Materials, 2020, 4, .	2.4	5
139	Ultrasensitive biochemical sensors based on controllably grown films of high-density edge-rich multilayer WS2 islands. Sensors and Actuators B: Chemical, 2022, 353, 131081.	7.8	5
140	Broadband light absorption and photoresponse enhancement in monolayer WSe2 crystal coupled to Sb2O3 microresonators. Nano Research, 2022, 15, 4653-4660.	10.4	5
141	Ferroelectrics: Nonvolatile Ferroelectric Memory Effect in Ultrathin Î±â€In 2 Se 3 (Adv. Funct. Mater.) Tj ETQq1 1 0.784314 rgBT /Over	14.9	4
142	Direct one-step synthesis of CoFex@Co@C hybrids derived from a metal organic framework for a lightweight and high-performance microwave absorber. Nanotechnology, 2020, 31, 095703.	2.6	4
143	In situ study on stability of copper oxide nanomaterials by e-beam irradiation. Materials Letters, 2015, 156, 134-137.	2.6	3
144	In-situ TEM Study on Electrochemical Behavior of Î±-MnO₂ Nanowire. Microscopy and Microanalysis, 2014, 20, 496-497.	0.4	2

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145	In situ TEM Observation of Lithiation and Sodiation Process of ZnO Nanowire. Microscopy and Microanalysis, 2015, 21, 1371-1372.	0.4	2
146	Can Na+ Transport Faster Than Li+ inside Zn-Sb Intermetallic Nanomaterials?. Microscopy and Microanalysis, 2015, 21, 1195-1196.	0.4	2
147	A numerical study on striped lithiation of tin oxide anodes. International Journal of Solids and Structures, 2019, 159, 163-170.	2.7	2
148	Oxygen Impurity in Cubic Boron Nitride Thin Films Prepared by Plasma-enhanced Chemical Vapor Deposition. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2010, 25, 748-752.	1.3	2
149	Controllable growth of multilayered XSe₂ (X = W and Mo) for nonlinear optical and optoelectronic applications. 2D Materials, 2022, 9, 015012.	4.4	2
150	Nanofingers pulled from bulk silver. Scripta Materialia, 2012, 66, 247-249.	5.2	1
151	In Situ TEM Characterization of Nanostructured Dielectrics. Microscopy and Microanalysis, 2015, 21, 1813-1814.	0.4	1
152	Atomic Resolution Studies of W Dopants Effect on the Phase Transformation of VO2. Microscopy and Microanalysis, 2016, 22, 884-885.	0.4	1
153	Extreme dislocation-mediated plasticity of yttria-stabilized zirconia. Materials Today Physics, 2022, 22, 100588.	6.0	1
154	Direct Atomic-Scale Imaging of Multistep Phase Transition during the Lithiation of Nanowires by In-Situ (S)TEM. Microscopy and Microanalysis, 2014, 20, 428-429.	0.4	0
155	Atomic Resolution Study of Local Strains in Doped VO2 Nanowires. Microscopy and Microanalysis, 2014, 20, 1074-1075.	0.4	0
156	Dynamic Study of Sodiation Process in Single Crystalline a-MnO2 Nanowires. Microscopy and Microanalysis, 2015, 21, 1543-1544.	0.4	0
157	In situ cooling and heating study of VO 2 phase transition. Microscopy and Microanalysis, 2016, 22, 816-817.	0.4	0
158	Atomistic Exploration of the Surface-Sensitive Oriented Attachment Growth of a-MnCh Nanowires and the Formation of Defective Interface with 2Ã—3 and 2Ã—4 Tunnel Intergrowth. Microscopy and Microanalysis, 2016, 22, 386-387.	0.4	0
159	Effect of Mechanical Stress on Lithiation and Sodiation Process. Microscopy and Microanalysis, 2016, 22, 1382-1383.	0.4	0
160	Transmission Electron Microscopy Studies of Calcium Phosphate Biomineralization. Microscopy and Microanalysis, 2016, 22, 798-799.	0.4	0
161	In-situ TEM Investigation on Thermal Stability and Oxygen Release Behavior of Charged and Discharged LiCoO2. Microscopy and Microanalysis, 2016, 22, 844-845.	0.4	0
162	Photoemission oscillation in epitaxially grown van der Waals Î²-In₂Se₃WS₂ heterobilayer bubbles*. Chinese Physics B, 2021, 30, 117901.	1.4	0

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163	Characterization of Nanomaterials by Electron Microscopy. World Scientific Series in Nanoscience and Nanotechnology, 2019, , 35-173.	0.1	0
164	Scalable Van der Waals Encapsulation by Inorganic Molecular Crystals (Adv. Mater. 7/2022). Advanced Materials, 2022, 34, .	21.0	0