

# Wen-Wei Wu

## List of Publications by Year in descending order

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146  
papers

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citations

94269

37  
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95083

68  
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147  
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147  
docs citations

147  
times ranked

7409  
citing authors

#	ARTICLE	IF	CITATIONS
1	High Mobility MoS <sub>2</sub> Transistor with Low Schottky Barrier Contact by Using Atomic Thick h-BN as a Tunneling Layer. <i>Advanced Materials</i> , 2016, 28, 8302-8308.	11.1	398
2	Observation of Atomic Diffusion at Twin-Modified Grain Boundaries in Copper. <i>Science</i> , 2008, 321, 1066-1069.	6.0	352
3	Dynamic Evolution of Conducting Nanofilament in Resistive Switching Memories. <i>Nano Letters</i> , 2013, 13, 3671-3677.	4.5	327
4	Interface Engineering for High-Performance Top-Gated MoS <sub>2</sub> Field-Effect Transistors. <i>Advanced Materials</i> , 2014, 26, 6255-6261.	11.1	272
5	Switching Kinetic of VCM-Based Memristor: Evolution and Positioning of Nanofilament. <i>Advanced Materials</i> , 2015, 27, 5028-5033.	11.1	176
6	Flexible ferroelectric element based on van der Waals heteroepitaxy. <i>Science Advances</i> , 2017, 3, e1700121.	4.7	174
7	Single Crystalline PtSi Nanowires, PtSi/Si/PtSi Nanowire Heterostructures, and Nanodevices. <i>Nano Letters</i> , 2008, 8, 913-918.	4.5	166
8	Thermal Stability and Performance of NbSiTaTiZr High-Entropy Alloy Barrier for Copper Metallization. <i>Journal of the Electrochemical Society</i> , 2011, 158, H1161.	1.3	166
9	In situ Control of Atomic-Scale Si Layer with Huge Strain in the Nanoheterostructure NiSi/Si/NiSi through Point Contact Reaction. <i>Nano Letters</i> , 2007, 7, 2389-2394.	4.5	136
10	Van der Waals heteroepitaxial AZO/NiO/AZO/muscovite (ANA/muscovite) transparent flexible memristor. <i>Nano Energy</i> , 2019, 56, 322-329.	8.2	125
11	Well-aligned ZnO nanowires with excellent field emission and photocatalytic properties. <i>Nanoscale</i> , 2012, 4, 1471-1475.	2.8	107
12	In-situ TEM Observation of Repeating Events of Nucleation in Epitaxial Growth of Nano CoSi <sub>2</sub> in Nanowires of Si. <i>Nano Letters</i> , 2008, 8, 2194-2199.	4.5	94
13	Facile synthesis of mesoporous NiFe <sub>2</sub> O <sub>4</sub> /CNTs nanocomposite cathode material for high performance asymmetric pseudocapacitors. <i>Applied Surface Science</i> , 2018, 433, 1100-1112.	3.1	92
14	Direct Observation of Dual-Filament Switching Behaviors in Ta <sub>2</sub> O <sub>5</sub> -Based Memristors. <i>Small</i> , 2017, 13, 1603116.	5.2	85
15	Oxide Heteroepitaxy for Flexible Optoelectronics. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 32401-32407.	4.0	81
16	Rational Design of ZnO:H/ZnO Bilayer Structure for High-Performance Thin-Film Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 7862-7868.	4.0	76
17	Homogeneous Nucleation of Epitaxial CoSi <sub>2</sub> and NiSi in Si Nanowires. <i>Nano Letters</i> , 2009, 9, 2337-2342.	4.5	66
18	Dielectric Engineering of a Boron Nitride/Hafnium Oxide Heterostructure for High-Performance 2D Field Effect Transistors. <i>Advanced Materials</i> , 2016, 28, 2062-2069.	11.1	65

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19	Phase transformation and thermoelectric properties of bismuth-telluride nanowires. <i>Nanoscale</i> , 2013, 5, 4669.	2.8	63
20	Supercritical CO <sub>2</sub> -Assisted SiO <sub>x</sub> /Carbon Multi-Layer Coating on Si Anode for Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2104135.	7.8	59
21	Observation of Resistive Switching Behavior in Crossbar Core-Shell Ni/NiO Nanowires Memristor. <i>Small</i> , 2018, 14, 1703153.	5.2	58
22	Growth of High-Density Titanium Silicide Nanowires in a Single Direction on a Silicon Surface. <i>Nano Letters</i> , 2007, 7, 885-889.	4.5	56
23	Resistive switching of Au/ZnO/Au resistive memory: an in situ observation of conductive bridge formation. <i>Nanoscale Research Letters</i> , 2012, 7, 559.	3.1	53
24	Atomic-scale investigation of Lithiation/Delithiation mechanism in High-entropy spinel oxide with superior electrochemical performance. <i>Chemical Engineering Journal</i> , 2021, 420, 129838.	6.6	53
25	Excellent piezoelectric and electrical properties of lithium-doped ZnO nanowires for nanogenerator applications. <i>Nano Energy</i> , 2014, 8, 291-296.	8.2	48
26	Low Power Consumption Nanofilamentary ECM and VCM Cells in a Single Sidewall of High-Density VRRAM Arrays. <i>Advanced Science</i> , 2019, 6, 1902363.	5.6	47
27	Growth of CuInSe <sub>2</sub> and In <sub>2</sub> Se <sub>3</sub> /CuInSe <sub>2</sub> Nano-Heterostructures through Solid State Reactions. <i>Nano Letters</i> , 2011, 11, 4348-4351.	4.5	46
28	Measurement of Interlayer Screening Length of Layered Graphene by Plasmonic Nanostructure Resonances. <i>Journal of Physical Chemistry C</i> , 2013, 117, 22211-22217.	1.5	44
29	Revealing Controllable Nanowire Transformation through Cationic Exchange for RRAM Application. <i>Nano Letters</i> , 2014, 14, 2759-2763.	4.5	44
30	Revealing conducting filament evolution in low power and high reliability Fe <sub>3</sub> O <sub>4</sub> /Ta <sub>2</sub> O <sub>5</sub> bilayer RRAM. <i>Nano Energy</i> , 2018, 53, 871-879.	8.2	44
31	High on/off ratio black phosphorus based memristor with ultra-thin phosphorus oxide layer. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	42
32	In Situ TEM and Energy Dispersion Spectrometer Analysis of Chemical Composition Change in ZnO Nanowire Resistive Memories. <i>Analytical Chemistry</i> , 2013, 85, 3955-3960.	3.2	41
33	Synthesis and growth mechanism of pentagonal Cu nanobats with field emission characteristics. <i>Nanotechnology</i> , 2006, 17, 719-722.	1.3	40
34	Kinetic Competition Model and Size-Dependent Phase Selection in 1-D Nanostructures. <i>Nano Letters</i> , 2012, 12, 3115-3120.	4.5	40
35	Dynamic Observation of Phase Transformation Behaviors in Indium(III) Selenide Nanowire Based Phase Change Memory. <i>ACS Nano</i> , 2014, 8, 9457-9462.	7.3	39
36	In Situ Study of Spinel Ferrite Nanocrystal Growth Using Liquid Cell Transmission Electron Microscopy. <i>Chemistry of Materials</i> , 2015, 27, 8146-8152.	3.2	39

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37	Dynamics of Nanoscale Dendrite Formation in Solution Growth Revealed Through in Situ Liquid Cell Electron Microscopy. <i>Nano Letters</i> , 2018, 18, 6427-6433.	4.5	38
38	Vertically well-aligned epitaxial Ni <sub>3</sub> Si <sub>2</sub> nanowire arrays with excellent field emission properties. <i>Applied Physics Letters</i> , 2008, 93, 113109.	1.5	37
39	Cobalt Silicide Nanostructures: Synthesis, Electron Transport, and Field Emission Properties. <i>Crystal Growth and Design</i> , 2009, 9, 4514-4518.	1.4	36
40	Synthesis and Characterization of One-Dimensional Ag-Doped ZnO/Ga-Doped ZnO Coaxial Nanostructure Diodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 5183-5191.	4.0	35
41	Copper silicide/silicon nanowire heterostructures: in situ TEM observation of growth behaviors and electron transport properties. <i>Nanoscale</i> , 2013, 5, 5086.	2.8	34
42	Observing Growth of Nanostructured ZnO in Liquid. <i>Chemistry of Materials</i> , 2016, 28, 4507-4511.	3.2	34
43	Sub-nA Low-Current HZO Ferroelectric Tunnel Junction for High-Performance and Accurate Deep Learning Acceleration. , 2019, , .		34
44	Probing the electrochemical properties of an electrophoretically deposited Co <sub>3</sub> O <sub>4</sub> /rGO/CNTs nanocomposite for supercapacitor applications. <i>RSC Advances</i> , 2016, 6, 60578-60586.	1.7	33
45	In-situ TEM observation of Multilevel Storage Behavior in low power FeRAM device. <i>Nano Energy</i> , 2017, 34, 103-110.	8.2	33
46	Observing topotactic phase transformation and resistive switching behaviors in low power SrCoO <sub>x</sub> memristor. <i>Nano Energy</i> , 2020, 72, 104683.	8.2	33
47	Polarization-Resolved Broadband MoS <sub>2</sub> /Black Phosphorus/MoS <sub>2</sub> Optoelectronic Memory with Ultralong Retention Time and Ultrahigh Switching Ratio. <i>Advanced Functional Materials</i> , 2021, 31, 2100781.	7.8	33
48	Growth of Multiple Metal/Semiconductor Nanoheterostructures through Point and Line Contact Reactions. <i>Nano Letters</i> , 2010, 10, 3984-3989.	4.5	31
49	Facile production of graphene nanosheets comprising nitrogen-doping through in situ cathodic plasma formation during electrochemical exfoliation. <i>Journal of Materials Chemistry C</i> , 2017, 5, 2597-2602.	2.7	31
50	Sandwich-Nanostructured n-Cu <sub>2</sub> O/AuAg/p-Cu <sub>2</sub> O Photocathode with Highly Positive Onset Potential for Improved Water Reduction. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 38625-38632.	4.0	30
51	Taper PbZr <sub>0.2</sub> Ti <sub>0.8</sub> O <sub>3</sub> Nanowire Arrays: From Controlled Growth by Pulsed Laser Deposition to Piezopotential Measurements. <i>ACS Nano</i> , 2012, 6, 2826-2832.	7.3	29
52	Atomic-Scale Fabrication of In-Plane Heterojunctions of Few-Layer MoS <sub>2</sub> via In Situ Scanning Transmission Electron Microscopy. <i>Small</i> , 2020, 16, e1905516.	5.2	29
53	Phosphorus-Doped p-n Homojunction ZnO Nanowires: Growth Kinetics in Liquid and Their Optoelectronic Properties. <i>Chemistry of Materials</i> , 2015, 27, 4216-4221.	3.2	28
54	In situ atomic scale investigation of Li <sub>7</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> -based Li <sup>+</sup> -conducting solid electrolyte during calcination growth. <i>Nano Energy</i> , 2020, 71, 104625.	8.2	28

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55	Atomic-Scale Investigation of Electromigration with Different Directions of Electron Flow into High-Density Nanotwinned Copper through In Situ HRTEM. <i>Acta Materialia</i> , 2021, 219, 117250.	3.8	28
56	High-yield synthesis of ZnO nanowire arrays and their opto-electrical properties. <i>Nanoscale</i> , 2012, 4, 1476-1480.	2.8	27
57	A novel high-performance and energy-efficient RRAM device with multi-functional conducting nanofilaments. <i>Nano Energy</i> , 2021, 82, 105717.	8.2	27
58	Direct observation of electromigration-induced surface atomic steps in Cu lines by in situ transmission electron microscopy. <i>Applied Physics Letters</i> , 2007, 90, 203101.	1.5	26
59	Direct observation of melting behaviors at the nanoscale under electron beam and heat to form hollow nanostructures. <i>Nanoscale</i> , 2012, 4, 4702.	2.8	26
60	Optoelectronic Properties of Single-Crystalline Zn <sub>2</sub> GeO <sub>4</sub> Nanowires. <i>Journal of Physical Chemistry C</i> , 2014, 118, 8194-8199.	1.5	26
61	Opto-electrical properties of Sb-doped p-type ZnO nanowires. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	25
62	Heterogeneous and Homogeneous Nucleation of Epitaxial NiSi <sub>2</sub> in [110] Si Nanowires. <i>Journal of Physical Chemistry C</i> , 2011, 115, 397-401.	1.5	24
63	Transparent Antiradiative Ferroelectric Heterostructure Based on Flexible Oxide Heteroepitaxy. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 30574-30580.	4.0	24
64	The Influence of Surface Oxide on the Growth of Metal/Semiconductor Nanowires. <i>Nano Letters</i> , 2011, 11, 2753-2758.	4.5	23
65	In Situ Observation of Dehydration-Induced Phase Transformation from Na <sub>2</sub> Nb <sub>2</sub> O <sub>6</sub> ·H <sub>2</sub> O to NaNbO <sub>3</sub> . <i>Journal of Physical Chemistry C</i> , 2012, 116, 22261-22265.	1.5	23
66	Low Resistivity Metal Silicide Nanowires with Extraordinarily High Aspect Ratio for Future Nanoelectronic Devices. <i>ACS Nano</i> , 2011, 5, 9202-9207.	7.3	22
67	Single-crystalline $\hat{\Gamma}$ -Ni <sub>2</sub> Si nanowires with excellent physical properties. <i>Nanoscale Research Letters</i> , 2013, 8, 290.	3.1	22
68	In Situ Observation of Au Nanostructure Evolution in Liquid Cell TEM. <i>Journal of Physical Chemistry C</i> , 2017, 121, 26069-26075.	1.5	22
69	The different roles of contact materials between oxidation interlayer and doping effect for high performance ZnO thin film transistors. <i>Applied Physics Letters</i> , 2015, 106, 051607.	1.5	21
70	Observing the evolution of graphene layers at high current density. <i>Nano Research</i> , 2016, 9, 3663-3670.	5.8	21
71	Flexible Heteroepitaxy Photoelectrode for Photo-electrochemical Water Splitting. <i>ACS Applied Energy Materials</i> , 2018, 1, 3900-3907.	2.5	21
72	Single-crystalline CuO nanowires for resistive random access memory applications. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	19

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73	Atomic Visualization of the Phase Transition in Highly Strained BiFeO <sub>3</sub> Thin Films with Excellent Pyroelectric Response. <i>Nano Energy</i> , 2015, 17, 72-81.	8.2	19
74	Nickel/Platinum Dual Silicide Axial Nanowire Heterostructures with Excellent Photosensor Applications. <i>Nano Letters</i> , 2016, 16, 1086-1091.	4.5	19
75	Applications of p-n homojunction ZnO nanowires to one-diode one-memristor RRAM arrays. <i>Scripta Materialia</i> , 2020, 187, 439-444.	2.6	19
76	Structural Analysis and Performance in a Dual-Mechanism Conductive Filament Memristor. <i>Advanced Electronic Materials</i> , 2021, 7, 2100605.	2.6	19
77	Growth of single-crystalline cobalt silicide nanowires with excellent physical properties. <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	18
78	Self-formed conductive nanofilaments in (Bi, Mn)O for ultralow-power memory devices. <i>Nano Energy</i> , 2015, 13, 283-290.	8.2	17
79	Dynamic observation of reversible lithium storage phenomena in hybrid supercapacitor devices. <i>Nano Energy</i> , 2017, 41, 494-500.	8.2	17
80	<i>In situ</i> TEM observation of Au@Cu <sub>2</sub> O core-shell growth in liquids. <i>Nanoscale</i> , 2019, 11, 10486-10492.	2.8	17
81	Bioinspired Engineering of a Bacterium-Like Metal-Organic Framework for Cancer Immunotherapy. <i>Advanced Functional Materials</i> , 2020, 30, 2003764.	7.8	17
82	Pollen-Mimetic Metal-Organic Frameworks with Tunable Spike-Like Nanostructures That Promote Cell Interactions to Improve Antigen-Specific Humoral Immunity. <i>ACS Nano</i> , 2021, 15, 7596-7607.	7.3	17
83	Optimization of the nanotwin-induced zigzag surface of copper by electromigration. <i>Nanoscale</i> , 2016, 8, 2584-2588.	2.8	16
84	<i>In Situ</i> Investigation of Defect-Free Copper Nanowire Growth. <i>Nano Letters</i> , 2018, 18, 778-784.	4.5	15
85	Stability of nanoscale twins in copper under electric current stressing. <i>Journal of Applied Physics</i> , 2010, 108, 066103.	1.1	14
86	Low Interface Trap Densities and Enhanced Performance of AlGaIn/GaN MOS High-Electron-Mobility Transistors Using Thermal Oxidized Y <sub>2</sub> O <sub>3</sub> Interlayer. <i>IEEE Electron Device Letters</i> , 2015, 36, 1284-1286.	2.2	14
87	Mass transport phenomena in copper nanowires at high current density. <i>Nano Research</i> , 2016, 9, 1071-1078.	5.8	14
88	<i>In situ</i> TEM investigation of electron beam-induced ultrafast chemical lithiation for charging. <i>Journal of Materials Chemistry A</i> , 2020, 8, 648-655.	5.2	13
89	Cobalt silicide nanocables grown on Co films: synthesis and physical properties. <i>Nanotechnology</i> , 2010, 21, 485602.	1.3	12
90	Ni/NiO/HfO <sub>2</sub> Core/Multishell Nanowire ReRAM Devices with Excellent Resistive Switching Properties. <i>Advanced Electronic Materials</i> , 2018, 4, 1800256.	2.6	12

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91	Atomic-Scale Localized Thinning and Reconstruction of Two-Dimensional WS <sub>2</sub> Layers through <i>In Situ</i> Transmission Electron Microscopy/Scanning Transmission Electron Microscopy. <i>Journal of Physical Chemistry C</i> , 2020, 124, 14935-14940.	1.5	12
92	Atomic-scale investigation of Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> formation process in chemical infiltration via in situ transmission electron microscope for solid-state sodium batteries. <i>Nano Energy</i> , 2021, 87, 106144.	8.2	12
93	Single-crystalline Ge nanowires and Cu <sub>3</sub> Ge/Ge nano-heterostructures. <i>CrystEngComm</i> , 2012, 14, 4570.	1.3	11
94	Observing phase transformation in CVD-grown MoS <sub>2</sub> via atomic resolution TEM. <i>Chemical Communications</i> , 2018, 54, 9941-9944.	2.2	11
95	Direct Observation of Sublimation Behaviors in One-Dimensional In <sub>2</sub> Se <sub>3</sub> /In <sub>2</sub> O <sub>3</sub> Nanoheterostructures. <i>Analytical Chemistry</i> , 2015, 87, 5584-5588.	3.2	10
96	Surface defect engineering: gigantic enhancement in the optical and gas detection ability of metal oxide sensor. <i>RSC Advances</i> , 2016, 6, 65146-65151.	1.7	10
97	In Situ TEM Investigation of the Electrochemical Behavior in CNTs/MnO <sub>2</sub> -Based Energy Storage Devices. <i>Analytical Chemistry</i> , 2017, 89, 9671-9675.	3.2	10
98	Carbon Nanotube/Nitrogen-Doped Reduced Graphene Oxide Nanocomposites and Their Application in Supercapacitors. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 5366-5373.	0.9	10
99	Phase Variations and Layer Epitaxy of 2D PdSe <sub>2</sub> Grown on 2D Monolayers by Direct Selenization of Molecular Pd Precursors. <i>ACS Nano</i> , 2020, 14, 11677-11690.	7.3	10
100	Mimic Drug Dosage Modulation for Neuroplasticity Based on Charge Trap Layered Electronics. <i>Advanced Functional Materials</i> , 2021, 31, 2005182.	7.8	10
101	Atomic-scale silicidation of low resistivity Ni-Si system through in-situ TEM investigation. <i>Applied Surface Science</i> , 2021, 538, 148129.	3.1	10
102	Growth and properties of single-crystalline Ge nanowires and germanide/Ge nano-heterostructures. <i>CrystEngComm</i> , 2012, 14, 53-58.	1.3	9
103	Dynamic observation on the growth behaviors in manganese silicide/silicon nanowire heterostructures. <i>Nanoscale</i> , 2015, 7, 1776-1781.	2.8	9
104	Electron Beam Irradiation-Induced Deoxidation and Atomic Flattening on the Copper Surface. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 40909-40915.	4.0	9
105	In Situ Analysis of Growth Behaviors of Cu <sub>2</sub> O Nanocubes in Liquid Cell Transmission Electron Microscopy. <i>Analytical Chemistry</i> , 2019, 91, 9665-9672.	3.2	9
106	Controlled growth of the silicide nanostructures on Si bicrystal nanotemplate at a precision of a few nanometres. <i>CrystEngComm</i> , 2011, 13, 3967.	1.3	8
107	A solid-state cation exchange reaction to form multiple metal oxide heterostructure nanowires. <i>Nanoscale</i> , 2016, 8, 17039-17043.	2.8	8
108	Observing Solid-State Formation of Oriented Porous Functional Oxide Nanowire Heterostructures by <i>In Situ</i> TEM. <i>Nano Letters</i> , 2018, 18, 6064-6070.	4.5	8

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109	Observing Growth and Crystallization of Au@ZnO Core-Shell Nanoparticles by <i>In Situ</i> Liquid Cell Transmission Electron Microscopy: Implications for Photocatalysis and Gas-Sensing Applications. ACS Applied Nano Materials, 2021, 4, 612-620.	2.4	8
110	Electronic Interactions and Charge-Transfer Dynamics for a Series of Yolk-Shell Nanocrystals: Implications for Photocatalysis. ACS Applied Nano Materials, 2022, 5, 8404-8416.	2.4	8
111	Atomic Imaging of Molybdenum Oxide Nanowires with Unique and Complex Periodicity by Advanced Electron Microscopy. Nano Letters, 2020, 20, 1510-1516.	4.5	7
112	Real Time Observation of the Formation of Hollow Nanostructures through Solid State Reactions. Analytical Chemistry, 2014, 86, 4348-4353.	3.2	6
113	Metal silicide nanowires. Japanese Journal of Applied Physics, 2015, 54, 07JA04.	0.8	6
114	Fabrication of (111)-Oriented Nanotwinned Au Films for Au-to-Au Direct Bonding. Materials, 2018, 11, 2287.	1.3	6
115	Dynamic observation on the functional metal oxide conversion behaviors in Fe <sub>3</sub> O <sub>4</sub> /ZnO heterostructures. Scripta Materialia, 2020, 177, 192-197.	2.6	6
116	Core-Shell Pd <sub>9</sub> Ru@Pt on Functionalized Graphene for Methanol Electrooxidation. Journal of the Electrochemical Society, 2018, 165, H365-H373.	1.3	5
117	In situ atomic-scale observation of the conversion behavior in a Cu-Zn alloy for twinnability enhancement. Applied Surface Science, 2022, 573, 151602.	3.1	5
118	In Situ Atomic-Scale Observation of Monolayer MoS <sub>2</sub> Devices under High-Voltage Biasing via Transmission Electron Microscopy. Small, 2022, 18, e2106411.	5.2	5
119	Metal Silicide Nanowires. ECS Transactions, 2007, 11, 3-6.	0.3	4
120	Shape control of nickel silicide nanocrystals on stress-modified surface. CrystEngComm, 2014, 16, 1611.	1.3	4
121	Solid-State Diffusional Behaviors of Functional Metal Oxides at Atomic Scale. Small, 2018, 14, 1702877.	5.2	4
122	Ultra-high annealing twin density in <math>\langle 211 \rangle</math>-oriented Cu films. Scripta Materialia, 2020, 184, 46-51.	2.6	4
123	In-situ Transmission Electron Microscope Investigation of Atomic-scale Titanium Silicide Monolayer Superlattice. Scripta Materialia, 2021, 193, 6-11.	2.6	4
124	In situ atomic-scale TEM observation of Ag nanoparticle-mediated coalescence in liquids. Applied Surface Science, 2021, 546, 149057.	3.1	4
125	In situ manipulation of E-beam irradiation-induced nanopore formation on molybdenum oxide nanowires. Applied Surface Science, 2021, 544, 148874.	3.1	4
126	Observing resistive switching behaviors in single Ta <sub>2</sub> O <sub>5</sub> nanotube-based memristive devices. Materials Today Nano, 2022, 18, 100212.	2.3	4

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127	Investigation and Effects of Wafer Bow in 3D Integration Bonding Schemes. Journal of Electronic Materials, 2010, 39, 2605-2610.	1.0	3
128	A Strategy to Synthesize Ultrahigh-N-Doped Hierarchical Carbons via Induced $\text{I}^2$ -Sheet from Silk Fibroin by <i>In Situ</i> Electrogelation/Electropolymerization. ACS Applied Energy Materials, 2020, 3, 3596-3608.	2.5	3
129	In situ TEM investigation of indium oxide/titanium oxide nanowire heterostructures growth through solid state reactions. Materials Characterization, 2022, 187, 111832.	1.9	3
130	Improved Performance of ZnO-Based Resistive Memory by Internal Diffusion of Ag Atoms. Journal of Nanoscience and Nanotechnology, 2012, 12, 6271-6275.	0.9	2
131	A Triode Device with a Gate Controllable Schottky Barrier: Germanium Nanowire Transistors and Their Applications. Small, 2019, 15, 1900865.	5.2	2
132	Unique amorphization-mediated growth to form heterostructured silicide nanowires by solid-state reactions. Materials and Design, 2019, 169, 107674.	3.3	2
133	In-situ transmission electron microscopy study of nanotwinned copper under electromigration. , 2010, , .		1
134	Synthesis of single-crystalline $\text{Ge}_{1-x}\text{Sb}_x\text{Te}_4$ nanoplates in solution phase. CrystEngComm, 2016, 18, 2244-2246.	1.3	1
135	Enhancement in the Detection Ability of Metal Oxide Sensors Using Defect-Rich Polycrystalline Nanofiber Devices. Global Challenges, 2020, 4, 2000041.	1.8	1
136	Dynamic Observation of Electromigration in High Density Electroplated Nanotwinned Copper through in-Situ TEM. ECS Transactions, 2020, 97, 145-148.	0.3	1
137	In Situ Atomic-Scale Observation of Monolayer $\text{MoS}_2$ Devices under High-Voltage Biasing via Transmission Electron Microscopy (Small 7/2022). Small, 2022, 18, .	5.2	1
138	In-situ Microscopic Study of Cu Intragranular Electromigration. Materials Research Society Symposia Proceedings, 2005, 907, 1.	0.1	0
139	Effects of Strain Field of Si Bicrystal on the Formation of Nanoscale Silicides. ECS Transactions, 2007, 11, 83-88.	0.3	0
140	Multiple Heterostructures of $\text{Ni}_2\text{Si}/\text{Si}$ Formed by the Point Contact Reaction. ECS Transactions, 2009, 25, 41-44.	0.3	0
141	The operating mechanism of Schottky-gate nanosensors. , 2011, , .		0
142	Investigation of Indium Oxide Nanowire Transform to Indium Zinc Oxide (IZO) Via Solid State Reactions. ECS Transactions, 2020, 97, 105-108.	0.3	0
143	Few-Layer $\text{MoS}_2$ : Atomic-Scale Fabrication of In-Plane Heterojunctions of Few-Layer $\text{MoS}_2$ via In Situ Scanning Transmission Electron Microscopy (Small 3/2020). Small, 2020, 16, 2070015.	5.2	0
144	Single Crystalline CuO Nanowire for Resistive Random Access Memory Application. ECS Meeting Abstracts, 2014, , .	0.0	0

#	ARTICLE	IF	CITATIONS
145	A Novel Three-Dimensional High Density Vertical Rram Arrays with Reduced Leakage Current. ECS Meeting Abstracts, 2020, MA2020-01, 1298-1298.	0.0	0
146	Revealing Resistive Switching Mechanism in $\text{CaFeO}_x$ Perovskite System with Electroforming-Free and Reset Voltage-Controlled Multilevel Resistance Characteristics. Energy and Environmental Materials, 0, , .	7.3	0