

# Yong Zhu

## List of Publications by Year in descending order

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169  
papers

23,069  
citations

26630

56  
h-index

7745

150  
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170  
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170  
docs citations

170  
times ranked

28684  
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct measurement of rate-dependent mode I and mode II traction-separation laws for cohesive zone modeling of laminated glass. <i>Composite Structures</i> , 2022, 279, 114759.	5.8	7
2	Soft wearable sensors for monitoring symptoms of COVID-19 and other respiratory diseases: a review. <i>Progress in Biomedical Engineering</i> , 2022, 4, 012001.	4.9	12
3	Object Recognition via Evoked Sensory Feedback during Control of a Prosthetic Hand. <i>IEEE Robotics and Automation Letters</i> , 2022, 7, 207-214.	5.1	13
4	Printed Strain Sensors for On-Skin Electronics. <i>Small Structures</i> , 2022, 3, 2100131.	12.0	29
5	Evoked Tactile Feedback and Control Scheme on Functional Utility of Prosthetic Hand. <i>IEEE Robotics and Automation Letters</i> , 2022, 7, 1308-1315.	5.1	3
6	Boundary curvature guided programmable shape-morphing kirigami sheets. <i>Nature Communications</i> , 2022, 13, 530.	12.8	44
7	Nanomaterials for soft wearable electronics. , 2022, , .		2
8	Mechanical Properties of Nanowires. , 2022, , .		0
9	Fast Thermal Actuators for Soft Robotics. <i>Soft Robotics</i> , 2022, 9, 1031-1039.	8.0	23
10	Ultrasoft Porous 3D Conductive Dry Electrodes for Electrophysiological Sensing and Myoelectric Control. <i>Advanced Materials Technologies</i> , 2022, 7, .	5.8	13
11	Integrating charge mobility, stability and stretchability within conjugated polymer films for stretchable multifunctional sensors. <i>Nature Communications</i> , 2022, 13, 2739.	12.8	20
12	Silver Nanowire Composite Electrode Enabling Highly Flexible, Robust Organic Photovoltaics. <i>Solar Rrl</i> , 2022, 6, .	5.8	6
13	Effect of electrode characteristics on electromyographic activity of the masseter muscle. <i>Journal of Electromyography and Kinesiology</i> , 2021, 56, 102492.	1.7	5
14	Noninvasive and Nonocclusive Blood Pressure Monitoring via a Flexible Piezo-Composite Ultrasonic Sensor. <i>IEEE Sensors Journal</i> , 2021, 21, 2642-2650.	4.7	38
15	Real-time monitoring of plant stresses via chemiresistive profiling of leaf volatiles by a wearable sensor. <i>Matter</i> , 2021, 4, 2553-2570.	10.0	93
16	Static and dynamic proprioceptive recognition through vibrotactile stimulation. <i>Journal of Neural Engineering</i> , 2021, 18, 046093.	3.5	8
17	In Situ Thermomechanical Loading for TEM Studies of Nanocrystalline Alloys. <i>Microscopy and Microanalysis</i> , 2021, 27, 2420-2424.	0.4	0
18	Tensile detwinning in bi-twinned metallic nanowires. <i>Microscopy and Microanalysis</i> , 2021, 27, 1488-1490.	0.4	0

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19	Interaction of dislocations with twinning boundary in bi-twinned metallic nanowires. <i>Microscopy and Microanalysis</i> , 2021, 27, 1960-1962.	0.4	0
20	Recycling of Nanowire Percolation Network for Sustainable Soft Electronics. <i>Advanced Electronic Materials</i> , 2021, 7, 2100588.	5.1	10
21	Achieving High-Resolution Electrohydrodynamic Printing of Nanowires on Elastomeric Substrates through Surface Modification. <i>ACS Applied Electronic Materials</i> , 2021, 3, 192-202.	4.3	28
22	Emerging Wearable Sensors for Plant Health Monitoring. <i>Advanced Functional Materials</i> , 2021, 31, 2106475.	14.9	65
23	Closed-loop control of a prosthetic finger via evoked proprioceptive information. <i>Journal of Neural Engineering</i> , 2021, 18, 066029.	3.5	7
24	A Biaxially Stretchable and Self-Sensing Textile Heater Using Silver Nanowire Composite. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 59085-59091.	8.0	19
25	Wearable Bioimpedance Hydration Monitoring System using Conformable AgNW Electrodes. , 2021, , .		1
26	Emerging Wearable Sensors for Plant Health Monitoring (Adv. Funct. Mater. 52/2021). <i>Advanced Functional Materials</i> , 2021, 31, .	14.9	1
27	Patterning of Metal Nanowire Networks: Methods and Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 60736-60762.	8.0	30
28	Object stiffness recognition using haptic feedback delivered through transcutaneous proximal nerve stimulation. <i>Journal of Neural Engineering</i> , 2020, 17, 016002.	3.5	22
29	Flexible 1â€³ Composite Ultrasound Transducers With Silver-Nanowire-Based Stretchable Electrodes. <i>IEEE Transactions on Industrial Electronics</i> , 2020, 67, 6955-6962.	7.9	35
30	Nanomaterialâ€ Enabled Flexible and Stretchable Sensing Systems: Processing, Integration, and Applications. <i>Advanced Materials</i> , 2020, 32, e1902343.	21.0	198
31	Microelectromechanical Systems for Nanomechanical Testing: Electrostatic Actuation and Capacitive Sensing for High-Strain-Rate Testing. <i>Experimental Mechanics</i> , 2020, 60, 329-343.	2.0	14
32	Microelectromechanical Systems for Nanomechanical Testing: Displacement- and Force-Controlled Tensile Testing with Feedback Control. <i>Experimental Mechanics</i> , 2020, 60, 1005-1015.	2.0	11
33	Novel Bimodal Silver Nanowire Network as Top Electrodes for Reproducible and Highâ€ Efficiency Semitransparent Organic Photovoltaics. <i>Solar Rrl</i> , 2020, 4, 2000328.	5.8	36
34	Facile Approach to Fabricating Stretchable Organic Transistors with Laser-Patterned Ag Nanowire Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 50675-50683.	8.0	16
35	Stiffness Perception using Transcutaneous Electrical Stimulation during Active and Passive Prosthetic Control. , 2020, 2020, 3909-3912.		5
36	Buckle-Delamination-Enabled Stretchable Silver Nanowire Conductors. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 41696-41703.	8.0	36

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37	In Situ Nano-thermo-mechanical Experiment Reveals Brittle to Ductile Transition in Si Nanowires. <i>Microscopy and Microanalysis</i> , 2020, 26, 3192-3194.	0.4	2
38	Stretching nanowires on a stretchable substrate: A method towards facile fracture testing and elastic strain engineering. <i>Extreme Mechanics Letters</i> , 2020, 41, 101035.	4.1	7
39	A Flexible Piezo-Composite Ultrasound Blood Pressure Sensor with Silver Nanowire-based Stretchable Electrodes. , 2020, , .		5
40	Evoking haptic sensations in the foot through high-density transcutaneous electrical nerve stimulations. <i>Journal of Neural Engineering</i> , 2020, 17, 036020.	3.5	15
41	In-situ TEM study of dislocation interaction with twin boundary and retraction in twinned metallic nanowires. <i>Acta Materialia</i> , 2020, 196, 304-312.	7.9	25
42	Object Shape and Surface Topology Recognition Using Tactile Feedback Evoked through Transcutaneous Nerve Stimulation. <i>IEEE Transactions on Haptics</i> , 2020, 13, 152-158.	2.7	24
43	Gas-Permeable, Ultrathin, Stretchable Epidermal Electronics with Porous Electrodes. <i>ACS Nano</i> , 2020, 14, 5798-5805.	14.6	181
44	Competition between shear localization and tensile detwinning in twinned nanowires. <i>Physical Review Materials</i> , 2020, 4, .	2.4	7
45	Multifunctional Electronic Textiles Using Silver Nanowire Composites. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 31028-31037.	8.0	95
46	Transition of Deformation Mechanisms in Single-Crystalline Metallic Nanowires. <i>ACS Nano</i> , 2019, 13, 9082-9090.	14.6	33
47	In Situ Nano-thermomechanical Experiment Reveals Brittle to Ductile Transition in Silicon Nanowires. <i>Nano Letters</i> , 2019, 19, 5327-5334.	9.1	34
48	Maximum Spread of Droplet Impacting onto Solid Surfaces with Different Wettabilities: Adopting a Rim-like Lamella Shape. <i>Langmuir</i> , 2019, 35, 3204-3214.	3.5	42
49	Evoked Haptic Sensation in the Hand With Concurrent Non-Invasive Nerve Stimulation. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 2761-2767.	4.2	21
50	Printed Electronics: Printing Conductive Nanomaterials for Flexible and Stretchable Electronics: A Review of Materials, Processes, and Applications ( <i>Adv. Mater. Technol.</i> 5/2019). <i>Advanced Materials Technologies</i> , 2019, 4, 1970029.	5.8	11
51	Hydrogen embrittlement in metallic nanowires. <i>Nature Communications</i> , 2019, 10, 2004.	12.8	37
52	Interfacial shear stress transfer at nanowire-polymer interfaces with van der Waals interactions and chemical bonding. <i>Journal of the Mechanics and Physics of Solids</i> , 2019, 127, 191-207.	4.8	19
53	Tailoring the Temperature Coefficient of Resistance of Silver Nanowire Nanocomposites and their Application as Stretchable Temperature Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 17836-17842.	8.0	129
54	Printing Conductive Nanomaterials for Flexible and Stretchable Electronics: A Review of Materials, Processes, and Applications. <i>Advanced Materials Technologies</i> , 2019, 4, 1800546.	5.8	307

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55	Electrocardiogram of a Silver Nanowire Based Dry Electrode: Quantitative Comparison With the Standard Ag/AgCl Gel Electrode. <i>IEEE Access</i> , 2019, 7, 20789-20800.	4.2	25
56	Equi-biaxial compressive strain in graphene: Gr $\frac{1}{4}$ neisen parameter and buckling ridges. <i>2D Materials</i> , 2019, 6, 015026.	4.4	22
57	Evoked haptic sensations in the hand via non-invasive proximal nerve stimulation. <i>Journal of Neural Engineering</i> , 2018, 15, 046005.	3.5	48
58	Electrohydrodynamic printing of silver nanowires for flexible and stretchable electronics. <i>Nanoscale</i> , 2018, 10, 6806-6811.	5.6	208
59	A Novel Finger Kinematic Tracking Method Based on Skin-Like Wearable Strain Sensors. <i>IEEE Sensors Journal</i> , 2018, 18, 3010-3015.	4.7	30
60	Evolution of Metastable Defects and Its Effect on the Electronic Properties of MoS <sub>2</sub> Films. <i>Scientific Reports</i> , 2018, 8, 6724.	3.3	40
61	Characterization and Modeling of Catalyst-free Carbon-Assisted Synthesis of ZnO Nanowires. <i>Journal of Manufacturing Processes</i> , 2018, 32, 438-444.	5.9	3
62	Nanomaterial-Enabled Wearable Sensors for Healthcare. <i>Advanced Healthcare Materials</i> , 2018, 7, 1700889.	7.6	412
63	Merged Haptic Sensation in the Hand during Concurrent Non-Invasive Proximal Nerve Stimulation. , 2018, 2018, 2186-2189.		4
64	Atomic Layer Deposition: Conformal Physical Vapor Deposition Assisted by Atomic Layer Deposition and Its Application for Stretchable Conductors ( <i>Adv. Mater. Interfaces</i> 22/2018). <i>Advanced Materials Interfaces</i> , 2018, 5, 1870109.	3.7	1
65	Anomalous Tensile Detwinning in Twinned Metallic Nanowires. <i>Microscopy and Microanalysis</i> , 2018, 24, 1824-1825.	0.4	0
66	Conformal Physical Vapor Deposition Assisted by Atomic Layer Deposition and Its Application for Stretchable Conductors. <i>Advanced Materials Interfaces</i> , 2018, 5, 1801379.	3.7	4
67	Shape Morphing: Origami/Kirigami-Guided Morphing of Composite Sheets ( <i>Adv. Funct. Mater.</i> 44/2018). <i>Advanced Functional Materials</i> , 2018, 28, 1870314.	14.9	2
68	Gravure Printing of Water-based Silver Nanowire ink on Plastic Substrate for Flexible Electronics. <i>Scientific Reports</i> , 2018, 8, 15167.	3.3	64
69	Controlled bending and folding of a bilayer structure consisting of a thin stiff film and a heat shrinkable polymer sheet. <i>Smart Materials and Structures</i> , 2018, 27, 055009.	3.5	14
70	Origami/Kirigami-Guided Morphing of Composite Sheets. <i>Advanced Functional Materials</i> , 2018, 28, 1802768.	14.9	48
71	Anelastic Behavior in Crystalline Nanowires. <i>Microscopy and Microanalysis</i> , 2018, 24, 1908-1909.	0.4	0
72	Drug Delivery: Thrombin-Responsive Transcutaneous Patch for Auto-Anticoagulant Regulation ( <i>Adv. Tj ETQq0 0.0 rgBT /Qverlock 10</i>	21.6	3

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73	Hypoxia and H <sub>2</sub> O <sub>2</sub> Dual-Sensitive Vesicles for Enhanced Glucose-Responsive Insulin Delivery. Nano Letters, 2017, 17, 733-739.	9.1	220
74	Soft electrothermal actuators using silver nanowire heaters. Nanoscale, 2017, 9, 3797-3805.	5.6	142
75	A review on mechanics and mechanical properties of 2D materials—Graphene and beyond. Extreme Mechanics Letters, 2017, 13, 42-77.	4.1	920
76	A Wearable Hydration Sensor with Conformal Nanowire Electrodes. Advanced Healthcare Materials, 2017, 6, 1601159.	7.6	167
77	Mechanics of Crystalline Nanowires: An Experimental Perspective. Applied Mechanics Reviews, 2017, 69, .	10.1	43
78	Ultrasound-triggered noninvasive regulation of blood glucose levels using microgels integrated with insulin nanocapsules. Nano Research, 2017, 10, 1393-1402.	10.4	74
79	Controlling the self-folding of a polymer sheet using a local heater: the effect of the polymer–heater interface. Soft Matter, 2017, 13, 3863-3870.	2.7	27
80	Compact, Highly Efficient, and Fully Flexible Circularly Polarized Antenna Enabled by Silver Nanowires for Wireless Body-Area Networks. IEEE Transactions on Biomedical Circuits and Systems, 2017, 11, 920-932.	4.0	139
81	Hydration Sensing: A Wearable Hydration Sensor with Conformal Nanowire Electrodes (Adv.) Tj ETQq1 1 0.784314,rgBT /Overlock 10	7.8	1
82	Pop-up assembly of 3D structures actuated by heat shrinkable polymers. Smart Materials and Structures, 2017, 26, 125011.	3.5	17
83	Large-Area Nanolattice Film with Enhanced Modulus, Hardness, and Energy Dissipation. Scientific Reports, 2017, 7, 9145.	3.3	14
84	Substrate Effects on Growth of MoS <sub>2</sub> Film by Laser Physical Vapor Deposition on Sapphire, Si and Graphene (on Cu). Journal of Electronic Materials, 2017, 46, 1010-1021.	2.2	3
85	Thrombin-Responsive Transcutaneous Patch for Auto-Regulation. Advanced Materials, 2017, 29, 1604043.	21.0	90
86	Piezoelectric Floating Element Shear Stress Sensor for the Wind Tunnel Flow Measurement. IEEE Transactions on Industrial Electronics, 2017, 64, 7304-7312.	7.9	16
87	Anomalous Tensile Detwinning in Twinned Nanowires. Physical Review Letters, 2017, 119, 256101.	7.8	47
88	Evolution of Irradiation-Induced Vacancy Defects in Boron Nitride Nanotubes. Small, 2016, 12, 818-824.	10.0	19
89	Silver nanowire based wearable sensors for multimodal sensing. , 2016, , .		3
90	On the size-dependent elasticity of penta-twinned silver nanowires. Extreme Mechanics Letters, 2016, 8, 177-183.	4.1	38

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91	Mechanical Force-Triggered Drug Delivery. <i>Chemical Reviews</i> , 2016, 116, 12536-12563.	47.7	247
92	Helical coil buckling mechanism for a stiff nanowire on an elastomeric substrate. <i>Journal of the Mechanics and Physics of Solids</i> , 2016, 95, 25-43.	4.8	44
93	Low-Power Wearable Systems for Continuous Monitoring of Environment and Health for Chronic Respiratory Disease. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2016, 20, 1251-1264.	6.3	159
94	Elastic drug delivery: could treatments be triggered by patient movement?. <i>Nanomedicine</i> , 2016, 11, 323-325.	3.3	4
95	Microstructure and tensile behaviour of pure titanium produced after high-energy shot peening. <i>Materials Science and Technology</i> , 2016, 32, 1323-1329.	1.6	13
96	Nanomaterial-Enabled Dry Electrodes for Electrophysiological Sensing: A Review. <i>Jom</i> , 2016, 68, 1145-1155.	1.9	124
97	Mechanism of the Transition From In-Plane Buckling to Helical Buckling for a Stiff Nanowire on an Elastomeric Substrate. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2016, 83, .	2.2	21
98	In Situ Nanomechanical Testing of Crystalline Nanowires in Electron Microscopes. <i>Jom</i> , 2016, 68, 84-93.	1.9	16
99	Measuring graphene adhesion using atomic force microscopy with a microsphere tip. <i>Nanoscale</i> , 2015, 7, 10760-10766.	5.6	93
100	Stretchable Conductors: Nanomaterial-Enabled Stretchable Conductors: Strategies, Materials and Devices (Adv. Mater. 9/2015). <i>Advanced Materials</i> , 2015, 27, 1479-1479.	21.0	6
101	Flexible Technologies for Self-Powered Wearable Health and Environmental Sensing. <i>Proceedings of the IEEE</i> , 2015, 103, 665-681.	21.3	166
102	Multi-resonant AgNW/PDMS patch antenna for biaxial strain sensing. , 2015, , .		1
103	Silver nanowire strain sensors for wearable body motion tracking. , 2015, , .		3
104	Nanomaterial-Enabled Stretchable Conductors: Strategies, Materials and Devices. <i>Advanced Materials</i> , 2015, 27, 1480-1511.	21.0	594
105	Recoverable plasticity in penta-twinned metallic nanowires governed by dislocation nucleation and retraction. <i>Nature Communications</i> , 2015, 6, 5983.	12.8	135
106	Wearable silver nanowire dry electrodes for electrophysiological sensing. <i>RSC Advances</i> , 2015, 5, 11627-11632.	3.6	185
107	Large anelasticity and associated energy dissipation in single-crystalline nanowires. <i>Nature Nanotechnology</i> , 2015, 10, 687-691.	31.5	70
108	Cohesive-Shear-Lag Modeling of Interfacial Stress Transfer Between a Monolayer Graphene and a Polymer Substrate. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2015, 82, .	2.2	68

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109	Strain Hardening and Size Effect in Five-fold Twinned Ag Nanowires. Nano Letters, 2015, 15, 4037-4044.	9.1	122
110	Stretch-Triggered Drug Delivery from Wearable Elastomer Films Containing Therapeutic Depots. ACS Nano, 2015, 9, 9407-9415.	14.6	196
111	A review of microelectromechanical systems for nanoscale mechanical characterization. Journal of Micromechanics and Microengineering, 2015, 25, 093001.	2.6	60
112	Design and operation of silver nanowire based flexible and stretchable touch sensors. Journal of Materials Research, 2015, 30, 79-85.	2.6	48
113	RF MEMS switches for smart antennas. Microsystem Technologies, 2015, 21, 487-495.	2.0	20
114	Novel wearable EMG sensors based on nanowire technology. , 2014, 2014, 1674-7.		4
115	Soft Dry Electrodes for Electrocardiogram with Conductive Silver Nanowires. Materials Research Society Symposia Proceedings, 2014, 1685, 54.	0.1	0
116	Interfacial Sliding and Buckling of Monolayer Graphene on a Stretchable Substrate. Advanced Functional Materials, 2014, 24, 396-402.	14.9	229
117	Stretchable and Reversibly Deformable Radio Frequency Antennas Based on Silver Nanowires. ACS Applied Materials & Interfaces, 2014, 6, 4248-4253.	8.0	260
118	Wearable multifunctional sensors using printed stretchable conductors made of silver nanowires. Nanoscale, 2014, 6, 2345.	5.6	895
119	Surface-Energy-Assisted Perfect Transfer of Centimeter-Scale Monolayer and Few-Layer MoS <sub>2</sub> Films onto Arbitrary Substrates. ACS Nano, 2014, 8, 11522-11528.	14.6	367
120	Mechanical Properties of Silicon Carbide Nanowires: Effect of Size-Dependent Defect Density. Nano Letters, 2014, 14, 754-758.	9.1	161
121	Simple geometric model to describe self-folding of polymer sheets. Physical Review E, 2014, 89, 042601.	2.1	30
122	Stress relaxation in carbon nanotube-based fibers for load-bearing applications. Carbon, 2013, 52, 347-355.	10.3	26
123	Fabrication of Functional Nanowire Devices on Unconventional Substrates Using Strain-Release Assembly. ACS Applied Materials & Interfaces, 2013, 5, 256-261.	8.0	42
124	A microelectromechanical system for thermomechanical testing of nanostructures. Applied Physics Letters, 2013, 103, .	3.3	34
125	Temperature control in thermal microactuators with applications to <i>in-situ</i> nanomechanical testing. Applied Physics Letters, 2013, 102, .	3.3	31
126	Temperature-dependent material properties of Z-shaped MEMS thermal actuators made of single crystalline silicon. Journal of Micromechanics and Microengineering, 2013, 23, 125036.	2.6	7



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127	Bidirectional Electrothermal Actuator With Z-Shaped Beams. IEEE Sensors Journal, 2012, 12, 2508-2509.	4.7	38
128	Measuring True Young's Modulus of a Cantilevered Nanowire: Effect of Clamping on Resonance Frequency. Small, 2012, 8, 2571-2576.	10.0	49
129	Z-Shaped MEMS Thermal Actuators: Piezoresistive Self-Sensing and Preliminary Results for Feedback Control. Journal of Microelectromechanical Systems, 2012, 21, 596-604.	2.5	35
130	Analysis of Nonlinear Phenomena in a Thermal Micro-Actuator With a Built-In Thermal Position Sensor. IEEE Sensors Journal, 2012, 12, 1772-1784.	4.7	20
131	Size effects on elasticity, yielding, and fracture of silver nanowires: <i>In situ</i> experiments. Physical Review B, 2012, 85, .	3.2	266
132	Wavy Ribbons of Carbon Nanotubes for Stretchable Conductors. Advanced Functional Materials, 2012, 22, 1279-1283.	14.9	221
133	Highly Conductive and Stretchable Silver Nanowire Conductors. Advanced Materials, 2012, 24, 5117-5122.	21.0	1,139
134	Buckling of Aligned Carbon Nanotubes as Stretchable Conductors: A New Manufacturing Strategy. Advanced Materials, 2012, 24, 1073-1077.	21.0	158
135	Static Friction between Silicon Nanowires and Elastomeric Substrates. ACS Nano, 2011, 5, 7404-7410.	14.6	55
136	Strain-Release Assembly of Nanowires on Stretchable Substrates. ACS Nano, 2011, 5, 1556-1563.	14.6	94
137	Controlled 3D Buckling of Silicon Nanowires for Stretchable Electronics. ACS Nano, 2011, 5, 672-678.	14.6	192
138	$\text{MgO}/\text{MgB}_2$ Josephson Junctions for High-Speed Circuits. IEEE Transactions on Applied Superconductivity, 2011, 21, 115-118.	1.7	10
139	Carbon-Based Supercapacitors Produced by Activation of Graphene. Science, 2011, 332, 1537-1541.	12.6	5,528
140	Role of structurally and magnetically modified nanoclusters in colossal magnetoresistance. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 20941-20946.	7.1	22
141	A New Electrothermal Microactuator with Z-shaped Beams. Conference Proceedings of the Society for Experimental Mechanics, 2011, , 209-213.	0.5	1
142	Mechanical properties of ZnO nanowires under different loading modes. Nano Research, 2010, 3, 271-280.	10.4	186
143	Friction and Shear Strength at the Nanowire-Substrate Interfaces. Nanoscale Research Letters, 2010, 5, 291-5.	5.7	25
144	High- $J_c$ $\text{MgB}_2$ Josephson junctions with operating temperature up to 40 K. Applied Physics Letters, 2010, 96, .	3.3	27

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145	An electrothermal microactuator with Z-shaped beams. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 085014.	2.6	81
146	Tailoring the Load Carrying Capacity of MWCNTs Through Inter-shell Atomic Bridging. <i>Experimental Mechanics</i> , 2009, 49, 169-182.	2.0	45
147	Direct extraction of rate-dependent traction-separation laws for polyurea/steel interfaces. <i>International Journal of Solids and Structures</i> , 2009, 46, 31-51.	2.7	131
148	Pd-Pt Bimetallic Nanodendrites with High Activity for Oxygen Reduction. <i>Science</i> , 2009, 324, 1302-1305.	12.6	2,814
149	Mechanical Properties of Vapor-Liquid-Solid Synthesized Silicon Nanowires. <i>Nano Letters</i> , 2009, 9, 3934-3939.	9.1	363
150	Nanoscale Testing of One-Dimensional Nanostructures. , 2008, , 280-304.		2
151	A Microelectromechanical System for Nano-Scale Testing of One Dimensional Nanostructures. <i>Sensor Letters</i> , 2008, 6, 76-87.	0.4	10
152	Microstructures of SiC nanoparticle-doped MgB <sub>2</sub> -Fe tapes. <i>Journal of Applied Physics</i> , 2007, 102, 013913.	2.5	37
153	Design and Operation of a MEMS-Based Material Testing System for Nanomechanical Characterization. <i>Journal of Microelectromechanical Systems</i> , 2007, 16, 1219-1231.	2.5	159
154	Nanoscale disorder in high critical field, carbon-doped MgB <sub>2</sub> hybrid physical-chemical vapor deposition thin films. <i>Applied Physics Letters</i> , 2007, 91, 082513.	3.3	20
155	Ultrastrong, Stiff, and Lightweight Carbon Nanotube Fibers. <i>Advanced Materials</i> , 2007, 19, 4198-4201.	21.0	419
156	Experimental Techniques for the Mechanical Characterization of One-Dimensional Nanostructures. <i>Experimental Mechanics</i> , 2007, 47, 7-24.	2.0	69
157	Electro-Thermal Actuator for On-Chip Nanoscale Tensile Tests: Analytical Modelling and Multi-Physics Simulations. <i>Sensor Letters</i> , 2007, 5, 592-607.	0.4	11
158	A thermal actuator for nanoscale in situ microscopy testing: design and characterization. <i>Journal of Micromechanics and Microengineering</i> , 2006, 16, 242-253.	2.6	262
159	MEMS-based Material Testing Systems. , 2006, , 1-10.		2
160	Shape-induced ferromagnetic ordering in a triangular array of magnetized disks. <i>Applied Physics Letters</i> , 2005, 87, 202504.	3.3	2
161	A microelectromechanical load sensor for in situ electron and x-ray microscopy tensile testing of nanostructures. <i>Applied Physics Letters</i> , 2005, 86, 013506.	3.3	119
162	An electromechanical material testing system for in situ electron microscopy and applications. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 14503-14508.	7.1	328

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163	Reliability of capacitive RF MEMS switches at high and low temperatures. International Journal of RF and Microwave Computer-Aided Engineering, 2004, 14, 317-328.	1.2	22
164	Effect of temperature on capacitive RF MEMS switch performance—a coupled-field analysis. Journal of Micromechanics and Microengineering, 2004, 14, 1270-1279.	2.6	74
165	An experimental/computational approach to identify moduli and residual stress in MEMS radio-frequency switches. Experimental Mechanics, 2003, 43, 309-316.	2.0	19
166	Viscosity of Interfacial Water. Physical Review Letters, 2001, 87, 096104.	7.8	239
167	Rate-Dependent Slip of Newtonian Liquid at Smooth Surfaces. Physical Review Letters, 2001, 87, 096105.	7.8	539
168	A Novel MEMS-based Nanoscale Material Testing System. , 0, , .		1
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