

Yong Zhu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

161
papers

18,696
citations

52
h-index

136
g-index

170
ext. papers

20,978
ext. citations

8.1
avg. IF

7.21
L-index

#	Paper	IF	Citations
161	Boundary curvature guided programmable shape-morphing kirigami sheets.. <i>Nature Communications</i> , 2022 , 13, 530	17.4	8
160	Evoked Tactile Feedback and Control Scheme on Functional Utility of Prosthetic Hand. <i>IEEE Robotics and Automation Letters</i> , 2022 , 7, 1308-1315	4.2	0
159	Soft wearable sensors for monitoring symptoms of COVID-19 and other respiratory diseases: a review. <i>Progress in Biomedical Engineering</i> , 2022 , 4, 012001	7.2	2
158	Object Recognition via Evoked Sensory Feedback during Control of a Prosthetic Hand. <i>IEEE Robotics and Automation Letters</i> , 2022 , 7, 207-214	4.2	1
157	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	5.3	1
156	Integrating charge mobility, stability and stretchability within conjugated polymer films for stretchable multifunctional sensors.. <i>Nature Communications</i> , 2022 , 13, 2739	17.4	1
155	Emerging Wearable Sensors for Plant Health Monitoring (Adv. Funct. Mater. 52/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170387	15.6	1
154	Patterning of Metal Nanowire Networks: Methods and Applications.. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 60736-60762	9.5	6
153	Closed-loop control of a prosthetic finger via evoked proprioceptive information. <i>Journal of Neural Engineering</i> , 2021 , 18,	5	1
152	A Biaxially Stretchable and Self-Sensing Textile Heater Using Silver Nanowire Composite. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	7
151	Achieving High-Resolution Electrohydrodynamic Printing of Nanowires on Elastomeric Substrates through Surface Modification. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 192-202	4	11
150	Real-time monitoring of plant stresses via chemiresistive profiling of leaf volatiles by a wearable sensor. <i>Matter</i> , 2021 , 4, 2553-2570	12.7	23
149	Static and dynamic proprioceptive recognition through vibrotactile stimulation. <i>Journal of Neural Engineering</i> , 2021 , 18,	5	2
148	In Situ Thermomechanical Loading for TEM Studies of Nanocrystalline Alloys. <i>Microscopy and Microanalysis</i> , 2021 , 27, 2420-2424	0.5	
147	Tensile detwinning in bi-twinned metallic nanowires. <i>Microscopy and Microanalysis</i> , 2021 , 27, 1488-1490	0.5	
146	Effect of electrode characteristics on electromyographic activity of the masseter muscle. <i>Journal of Electromyography and Kinesiology</i> , 2021 , 56, 102492	2.5	0
145	Noninvasive and Nonocclusive Blood Pressure Monitoring via a Flexible Piezo-Composite Ultrasonic Sensor. <i>IEEE Sensors Journal</i> , 2021 , 21, 2642-2650	4	13

144	Interaction of dislocations with twinning boundary in bi-twinned metallic nanowires. <i>Microscopy and Microanalysis</i> , 2021 , 27, 1960-1962	0.5	
143	Recycling of Nanowire Percolation Network for Sustainable Soft Electronics. <i>Advanced Electronic Materials</i> , 2021 , 7, 2100588	6.4	5
142	A Flexible Piezo-Composite Ultrasound Blood Pressure Sensor with Silver Nanowire-based Stretchable Electrodes 2020 ,		1
141	Evoking haptic sensations in the foot through high-density transcutaneous electrical nerve stimulations. <i>Journal of Neural Engineering</i> , 2020 , 17, 036020	5	3
140	In-situ TEM study of dislocation interaction with twin boundary and retraction in twinned metallic nanowires. <i>Acta Materialia</i> , 2020 , 196, 304-312	8.4	15
139	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	11
138	Gas-Permeable, Ultrathin, Stretchable Epidermal Electronics with Porous Electrodes. <i>ACS Nano</i> , 2020 , 14, 5798-5805	16.7	74
137	Competition between shear localization and tensile detwinning in twinned nanowires. <i>Physical Review Materials</i> , 2020 , 4,	3.2	2
136	. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 6955-6962	8.9	12
135	Nanomaterial-Enabled Flexible and Stretchable Sensing Systems: Processing, Integration, and Applications. <i>Advanced Materials</i> , 2020 , 32, e1902343	24	106
134	Microelectromechanical Systems for Nanomechanical Testing: Electrostatic Actuation and Capacitive Sensing for High-Strain-Rate Testing. <i>Experimental Mechanics</i> , 2020 , 60, 329-343	2.6	10
133	Microelectromechanical Systems for Nanomechanical Testing: Displacement- and Force-Controlled Tensile Testing with Feedback Control. <i>Experimental Mechanics</i> , 2020 , 60, 1005-1015	2.6	6
132	Novel Bimodal Silver Nanowire Network as Top Electrodes for Reproducible and High-Efficiency Semitransparent Organic Photovoltaics. <i>Solar Rrl</i> , 2020 , 4, 2000328	7.1	21
131	Facile Approach to Fabricating Stretchable Organic Transistors with Laser-Patterned Ag Nanowire Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 50675-50683	9.5	10
130	Stiffness Perception using Transcutaneous Electrical Stimulation during Active and Passive Prosthetic Control. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2020 , 2020, 3909-3912	0.9	3
129	Buckle-Delamination-Enabled Stretchable Silver Nanowire Conductors. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 41696-41703	9.5	20
128	In Situ Nano-thermo-mechanical Experiment Reveals Brittle to Ductile Transition in Si Nanowires. <i>Microscopy and Microanalysis</i> , 2020 , 26, 3192-3194	0.5	1
127	Stretching nanowires on a stretchable substrate: A method towards facile fracture testing and elastic strain engineering. <i>Extreme Mechanics Letters</i> , 2020 , 41, 101035	3.9	3

126	Maximum Spread of Droplet Impacting onto Solid Surfaces with Different Wettabilities: Adopting a Rim-Lamella Shape. <i>Langmuir</i> , 2019 , 35, 3204-3214	4	18
125	Evoked Haptic Sensation in the Hand With Concurrent Non-Invasive Nerve Stimulation. <i>IEEE Transactions on Biomedical Engineering</i> , 2019 , 66, 2761-2767	5	13
124	Printed Electronics: Printing Conductive Nanomaterials for Flexible and Stretchable Electronics: A Review of Materials, Processes, and Applications (Adv. Mater. Technol. 5/2019). <i>Advanced Materials Technologies</i> , 2019 , 4, 1970029	6.8	7
123	Hydrogen embrittlement in metallic nanowires. <i>Nature Communications</i> , 2019 , 10, 2004	17.4	22
122	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	5	10
121	Tailoring the Temperature Coefficient of Resistance of Silver Nanowire Nanocomposites and their Application as Stretchable Temperature Sensors. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 17838-17847	9.5	74
120	Printing Conductive Nanomaterials for Flexible and Stretchable Electronics: A Review of Materials, Processes, and Applications. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800546	6.8	194
119	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	3.5	13
118	Multifunctional Electronic Textiles Using Silver Nanowire Composites. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 31028-31037	9.5	55
117	Transition of Deformation Mechanisms in Single-Crystalline Metallic Nanowires. <i>ACS Nano</i> , 2019 , 13, 9082-9090	16.7	15
116	In Situ Nano-thermomechanical Experiment Reveals Brittle to Ductile Transition in Silicon Nanowires. <i>Nano Letters</i> , 2019 , 19, 5327-5334	11.5	17
115	Equi-biaxial compressive strain in graphene: Grüneisen parameter and buckling ridges. <i>2D Materials</i> , 2019 , 6, 015026	5.9	12
114	Object stiffness recognition using haptic feedback delivered through transcutaneous proximal nerve stimulation. <i>Journal of Neural Engineering</i> , 2019 , 17, 016002	5	11
113	Evoked haptic sensations in the hand via non-invasive proximal nerve stimulation. <i>Journal of Neural Engineering</i> , 2018 , 15, 046005	5	21
112	Electrohydrodynamic printing of silver nanowires for flexible and stretchable electronics. <i>Nanoscale</i> , 2018 , 10, 6806-6811	7.7	149
111	A Novel Finger Kinematic Tracking Method Based on Skin-Like Wearable Strain Sensors. <i>IEEE Sensors Journal</i> , 2018 , 18, 3010-3015	4	19
110	Evolution of Metastable Defects and Its Effect on the Electronic Properties of MoS Films. <i>Scientific Reports</i> , 2018 , 8, 6724	4.9	32
109	Characterization and Modeling of Catalyst-free Carbon-Assisted Synthesis of ZnO Nanowires. <i>Journal of Manufacturing Processes</i> , 2018 , 32, 438-444	5	3

108	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	3.4	10
107	Origami/Kirigami-Guided Morphing of Composite Sheets. <i>Advanced Functional Materials</i> , 2018 , 28, 1802768	15.6	29
106	Anelastic Behavior in Crystalline Nanowires. <i>Microscopy and Microanalysis</i> , 2018 , 24, 1908-1909	0.5	
105	Nanomaterial-Enabled Wearable Sensors for Healthcare. <i>Advanced Healthcare Materials</i> , 2018 , 7, 1700889	10.1	282
104	Merged Haptic Sensation in the Hand during Concurrent Non-Invasive Proximal Nerve Stimulation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2018 , 2018, 2186-2189	0.9	2
103	Atomic Layer Deposition: Conformal Physical Vapor Deposition Assisted by Atomic Layer Deposition and Its Application for Stretchable Conductors (Adv. Mater. Interfaces 22/2018). <i>Advanced Materials Interfaces</i> , 2018 , 5, 1870109	4.6	0
102	Anomalous Tensile Detwinning in Twinned Metallic Nanowires. <i>Microscopy and Microanalysis</i> , 2018 , 24, 1824-1825	0.5	
101	Conformal Physical Vapor Deposition Assisted by Atomic Layer Deposition and Its Application for Stretchable Conductors. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1801379	4.6	1
100	Shape Morphing: Origami/Kirigami-Guided Morphing of Composite Sheets (Adv. Funct. Mater. 44/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870314	15.6	2
99	Gravure Printing of Water-based Silver Nanowire ink on Plastic Substrate for Flexible Electronics. <i>Scientific Reports</i> , 2018 , 8, 15167	4.9	47
98	Drug Delivery: Thrombin-Responsive Transcutaneous Patch for Auto-Anticoagulant Regulation (Adv. Mater. 4/2017). <i>Advanced Materials</i> , 2017 , 29,	24	2
97	Hypoxia and HO Dual-Sensitive Vesicles for Enhanced Glucose-Responsive Insulin Delivery. <i>Nano Letters</i> , 2017 , 17, 733-739	11.5	172
96	Soft electrothermal actuators using silver nanowire heaters. <i>Nanoscale</i> , 2017 , 9, 3797-3805	7.7	108
95	A review on mechanics and mechanical properties of 2D materials Graphene and beyond. <i>Extreme Mechanics Letters</i> , 2017 , 13, 42-77	3.9	581
94	A Wearable Hydration Sensor with Conformal Nanowire Electrodes. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1601159	10.1	119
93	Mechanics of Crystalline Nanowires: An Experimental Perspective. <i>Applied Mechanics Reviews</i> , 2017 , 69,	8.6	34
92	Ultrasound-triggered noninvasive regulation of blood glucose levels using microgels integrated with insulin nanocapsules. <i>Nano Research</i> , 2017 , 10, 1393-1402	10	55
91	Controlling the self-folding of a polymer sheet using a local heater: the effect of the polymer-heater interface. <i>Soft Matter</i> , 2017 , 13, 3863-3870	3.6	21

90	Compact, Highly Efficient, and Fully Flexible Circularly Polarized Antenna Enabled by Silver Nanowires for Wireless Body-Area Networks. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2017 , 11, 920-932	5.1	82
89	Pop-up assembly of 3D structures actuated by heat shrinkable polymers. <i>Smart Materials and Structures</i> , 2017 , 26, 125011	3.4	16
88	Large-Area Nanolattice Film with Enhanced Modulus, Hardness, and Energy Dissipation. <i>Scientific Reports</i> , 2017 , 7, 9145	4.9	12
87	Substrate Effects on Growth of MoS ₂ Film by Laser Physical Vapor Deposition on Sapphire, Si and Graphene (on Cu). <i>Journal of Electronic Materials</i> , 2017 , 46, 1010-1021	1.9	2
86	Thrombin-Responsive Transcutaneous Patch for Auto-Anticoagulant Regulation. <i>Advanced Materials</i> , 2017 , 29, 1604043	24	65
85	Piezoelectric Floating Element Shear Stress Sensor for the Wind Tunnel Flow Measurement. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 7304-7312	8.9	7
84	Anomalous Tensile Detwinning in Twinned Nanowires. <i>Physical Review Letters</i> , 2017 , 119, 256101	7.4	38
83	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	5	39
82	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	7.2	113
81	Microstructure and tensile behaviour of pure titanium produced after high-energy shot peening. <i>Materials Science and Technology</i> , 2016 , 32, 1323-1329	1.5	11
80	Nanomaterial-Enabled Dry Electrodes for Electrophysiological Sensing: A Review. <i>Jom</i> , 2016 , 68, 1145-1155	11.5	85
79	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,	2.7	19
78	In Situ Nanomechanical Testing of Crystalline Nanowires in Electron Microscopes. <i>Jom</i> , 2016 , 68, 84-93	2.1	12
77	Evolution of Irradiation-Induced Vacancy Defects in Boron Nitride Nanotubes. <i>Small</i> , 2016 , 12, 818-24	11	11
76	Silver nanowire based wearable sensors for multimodal sensing 2016 ,		3
75	On the size-dependent elasticity of penta-twinned silver nanowires. <i>Extreme Mechanics Letters</i> , 2016 , 8, 177-183	3.9	31
74	Mechanical Force-Triggered Drug Delivery. <i>Chemical Reviews</i> , 2016 , 116, 12536-12563	68.1	179
73	Wearable silver nanowire dry electrodes for electrophysiological sensing. <i>RSC Advances</i> , 2015 , 5, 11627-11632	3.6	145

72	Large anelasticity and associated energy dissipation in single-crystalline nanowires. <i>Nature Nanotechnology</i> , 2015 , 10, 687-91	28.7	59
71	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,	2.7	54
70	Strain Hardening and Size Effect in Five-fold Twinned Ag Nanowires. <i>Nano Letters</i> , 2015 , 15, 4037-44	11.5	95
69	Stretch-Triggered Drug Delivery from Wearable Elastomer Films Containing Therapeutic Depots. <i>ACS Nano</i> , 2015 , 9, 9407-15	16.7	157
68	A review of microelectromechanical systems for nanoscale mechanical characterization. <i>Journal of Micromechanics and Microengineering</i> , 2015 , 25, 093001	2	45
67	Design and operation of silver nanowire based flexible and stretchable touch sensors. <i>Journal of Materials Research</i> , 2015 , 30, 79-85	2.5	39
66	RF MEMS switches for smart antennas. <i>Microsystem Technologies</i> , 2015 , 21, 487-495	1.7	17
65	Measuring graphene adhesion using atomic force microscopy with a microsphere tip. <i>Nanoscale</i> , 2015 , 7, 10760-6	7.7	77
64	Stretchable Conductors: Nanomaterial-Enabled Stretchable Conductors: Strategies, Materials and Devices (Adv. Mater. 9/2015). <i>Advanced Materials</i> , 2015 , 27, 1479-1479	24	4
63	Flexible Technologies for Self-Powered Wearable Health and Environmental Sensing. <i>Proceedings of the IEEE</i> , 2015 , 103, 665-681	14.3	124
62	Silver nanowire strain sensors for wearable body motion tracking 2015 ,		1
61	Nanomaterial-enabled stretchable conductors: strategies, materials and devices. <i>Advanced Materials</i> , 2015 , 27, 1480-511	24	510
60	Recoverable plasticity in penta-twinned metallic nanowires governed by dislocation nucleation and retraction. <i>Nature Communications</i> , 2015 , 6, 5983	17.4	114
59	Wearable multifunctional sensors using printed stretchable conductors made of silver nanowires. <i>Nanoscale</i> , 2014 , 6, 2345-52	7.7	748
58	Surface-energy-assisted perfect transfer of centimeter-scale monolayer and few-layer MoS ₂ films onto arbitrary substrates. <i>ACS Nano</i> , 2014 , 8, 11522-8	16.7	281
57	Mechanical properties of silicon carbide nanowires: effect of size-dependent defect density. <i>Nano Letters</i> , 2014 , 14, 754-8	11.5	130
56	Simple geometric model to describe self-folding of polymer sheets. <i>Physical Review E</i> , 2014 , 89, 042601	2.4	23
55	Novel wearable EMG sensors based on nanowire technology. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 1674-7	0.9	4

54	Soft Dry Electrodes for Electrocardiogram with Conductive Silver Nanowires. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1685, 54		
53	Interfacial Sliding and Buckling of Monolayer Graphene on a Stretchable Substrate. <i>Advanced Functional Materials</i> , 2014 , 24, 396-402	15.6	175
52	Stretchable and reversibly deformable radio frequency antennas based on silver nanowires. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 4248-53	9.5	206
51	Stress relaxation in carbon nanotube-based fibers for load-bearing applications. <i>Carbon</i> , 2013 , 52, 347-355	5.4	21
50	Fabrication of functional nanowire devices on unconventional substrates using strain-release assembly. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 256-61	9.5	39
49	A microelectromechanical system for thermomechanical testing of nanostructures. <i>Applied Physics Letters</i> , 2013 , 103, 263114	3.4	28
48	A Novel Bidirectional Z-Shaped Thermally Actuated RF MEMS Switch for Multiple-Beam Antenna Array. <i>Advanced Materials Research</i> , 2013 , 705, 264-269	0.5	1
47	Temperature control in thermal microactuators with applications to in-situ nanomechanical testing. <i>Applied Physics Letters</i> , 2013 , 102, 013101	3.4	25
46	Temperature-dependent material properties of Z-shaped MEMS thermal actuators made of single crystalline silicon. <i>Journal of Micromechanics and Microengineering</i> , 2013 , 23, 125036	2	6
45	Buckling of aligned carbon nanotubes as stretchable conductors: a new manufacturing strategy. <i>Advanced Materials</i> , 2012 , 24, 1073-7	24	143
44	Measuring true Young's modulus of a cantilevered nanowire: effect of clamping on resonance frequency. <i>Small</i> , 2012 , 8, 2571-6	11	42
43	Z-Shaped MEMS Thermal Actuators: Piezoresistive Self-Sensing and Preliminary Results for Feedback Control. <i>Journal of Microelectromechanical Systems</i> , 2012 , 21, 596-604	2.5	27
42	Analysis of Nonlinear Phenomena in a Thermal Micro-Actuator With a Built-In Thermal Position Sensor. <i>IEEE Sensors Journal</i> , 2012 , 12, 1772-1784	4	17
41	Size effects on elasticity, yielding, and fracture of silver nanowires: In situ experiments. <i>Physical Review B</i> , 2012 , 85,	3.3	224
40	Wavy Ribbons of Carbon Nanotubes for Stretchable Conductors. <i>Advanced Functional Materials</i> , 2012 , 22, 1279-1283	15.6	189
39	Highly conductive and stretchable silver nanowire conductors. <i>Advanced Materials</i> , 2012 , 24, 5117-22	24	982
38	Bidirectional Electrothermal Actuator With Z-Shaped Beams. <i>IEEE Sensors Journal</i> , 2012 , 12, 2508-2509	4	33
37	Static friction between silicon nanowires and elastomeric substrates. <i>ACS Nano</i> , 2011 , 5, 7404-10	16.7	49

36	Strain-release assembly of nanowires on stretchable substrates. <i>ACS Nano</i> , 2011 , 5, 1556-63	16.7	80
35	Controlled 3D buckling of silicon nanowires for stretchable electronics. <i>ACS Nano</i> , 2011 , 5, 672-8	16.7	176
34	$\text{MgB}_2/\text{MgO}/\text{MgB}_2$ Josephson Junctions for High-Speed Circuits. <i>IEEE Transactions on Applied Superconductivity</i> , 2011 , 21, 115-118	1.8	8
33	Carbon-based supercapacitors produced by activation of graphene. <i>Science</i> , 2011 , 332, 1537-41	33.3	4940
32	Role of structurally and magnetically modified nanoclusters in colossal magnetoresistance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 20941-6	11.5	20
31	A New Electrothermal Microactuator with Z-shaped Beams. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2011 , 209-213	0.3	1
30	High-Jc MgB ₂ Josephson junctions with operating temperature up to 40 K. <i>Applied Physics Letters</i> , 2010 , 96, 042506	3.4	22
29	An electrothermal microactuator with Z-shaped beams. <i>Journal of Micromechanics and Microengineering</i> , 2010 , 20, 085014	2	68
28	Mechanical properties of ZnO nanowires under different loading modes. <i>Nano Research</i> , 2010 , 3, 271-280	10	158
27	Tailoring the Load Carrying Capacity of MWCNTs Through Inter-shell Atomic Bridging. <i>Experimental Mechanics</i> , 2009 , 49, 169-182	2.6	39
26	Direct extraction of rate-dependent traction-separation laws for polyurea/steel interfaces. <i>International Journal of Solids and Structures</i> , 2009 , 46, 31-51	3.1	112
25	Pd-Pt bimetallic nanodendrites with high activity for oxygen reduction. <i>Science</i> , 2009 , 324, 1302-5	33.3	2605
24	Mechanical properties of vapor-liquid-solid synthesized silicon nanowires. <i>Nano Letters</i> , 2009 , 9, 3934-9	11.5	316
23	Friction and shear strength at the nanowire-substrate interfaces. <i>Nanoscale Research Letters</i> , 2009 , 5, 291-5	5	23
22	Nanoscale Testing of One-Dimensional Nanostructures 2008 , 280-304		2
21	A Microelectromechanical System for Nano-Scale Testing of One Dimensional Nanostructures. <i>Sensor Letters</i> , 2008 , 6, 76-87	0.9	8
20	Ultrastrong, Stiff, and Lightweight Carbon-Nanotube Fibers. <i>Advanced Materials</i> , 2007 , 19, 4198-4201	24	379
19	Experimental Techniques for the Mechanical Characterization of One-Dimensional Nanostructures. <i>Experimental Mechanics</i> , 2007 , 47, 7-24	2.6	62

18	Microstructures of SiC nanoparticle-doped MgB ₂ tapes. <i>Journal of Applied Physics</i> , 2007 , 102, 013913	2.5	35
17	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	124
16	Nanoscale disorder in high critical field, carbon-doped MgB ₂ hybrid physical-chemical vapor deposition thin films. <i>Applied Physics Letters</i> , 2007 , 91, 082513	3.4	18
15	Electro-Thermal Actuator for On-Chip Nanoscale Tensile Tests: Analytical Modelling and Multi-Physics Simulations. <i>Sensor Letters</i> , 2007 , 5, 592-607	0.9	9
14	A thermal actuator for nanoscale in situ microscopy testing: design and characterization. <i>Journal of Micromechanics and Microengineering</i> , 2006 , 16, 242-253	2	202
13	MEMS-based Material Testing Systems 2006 , 1-10		1
12	Shape-induced ferromagnetic ordering in a triangular array of magnetized disks. <i>Applied Physics Letters</i> , 2005 , 87, 202504	3.4	2
11	A microelectromechanical load sensor for in situ electron and x-ray microscopy tensile testing of nanostructures. <i>Applied Physics Letters</i> , 2005 , 86, 013506	3.4	109
10	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, 14503-8	11.5	281
9	Reliability of capacitive RF MEMS switches at high and low temperatures. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2004 , 14, 317-328	1.5	20
8	Effect of temperature on capacitive RF MEMS switch performance—coupled-field analysis. <i>Journal of Micromechanics and Microengineering</i> , 2004 , 14, 1270-1279	2	65
7	An experimental/computational approach to identify moduli and residual stress in MEMS radio-frequency switches. <i>Experimental Mechanics</i> , 2003 , 43, 309-316	2.6	17
6	Viscosity of interfacial water. <i>Physical Review Letters</i> , 2001 , 87, 096104	7.4	207
5	Rate-dependent slip of Newtonian liquid at smooth surfaces. <i>Physical Review Letters</i> , 2001 , 87, 096105	7.4	468
4	A Novel MEMS-based Nanoscale Material Testing System		1
3	Printed Strain Sensors for On-Skin Electronics. <i>Small Structures</i> , 2100131	8.7	5
2	Emerging Wearable Sensors for Plant Health Monitoring. <i>Advanced Functional Materials</i> , 2106475	15.6	15
1	Ultrasoft Porous 3D Conductive Dry Electrodes for Electrophysiological Sensing and Myoelectric Control. <i>Advanced Materials Technologies</i> , 2101637	6.8	2

