

Seiji Akita

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213
papers

5,904
citations

36
h-index

70
g-index

245
ext. papers

6,718
ext. citations

4.6
avg, IF

5.86
L-index

#	Paper	IF	Citations
213	Wearable, Human-Interactive, Health-Monitoring, Wireless Devices Fabricated by Macroscale Printing Techniques. <i>Advanced Functional Materials</i> , 2014 , 24, 3299-3304	15.6	323
212	Carbon-nanotube tips for scanning probe microscopy: Preparation by a controlled process and observation of deoxyribonucleic acid. <i>Applied Physics Letters</i> , 1999 , 74, 4061-4063	3.4	299
211	Orientation and purification of carbon nanotubes using ac electrophoresis. <i>Journal Physics D: Applied Physics</i> , 1998 , 31, L34-L36	3	297
210	Fully printed, highly sensitive multifunctional artificial electronic whisker arrays integrated with strain and temperature sensors. <i>ACS Nano</i> , 2014 , 8, 3921-7	16.7	238
209	Toward flexible and wearable human-interactive health-monitoring devices. <i>Advanced Healthcare Materials</i> , 2015 , 4, 487-500	10.1	229
208	Wearable, Flexible, and Multifunctional Healthcare Device with an ISFET Chemical Sensor for Simultaneous Sweat pH and Skin Temperature Monitoring. <i>ACS Sensors</i> , 2017 , 2, 443-448	9.2	214
207	Fully printed flexible fingerprint-like three-axis tactile and slip force and temperature sensors for artificial skin. <i>ACS Nano</i> , 2014 , 8, 12851-7	16.7	213
206	Printed multifunctional flexible device with an integrated motion sensor for health care monitoring. <i>Science Advances</i> , 2016 , 2, e1601473	14.3	202
205	Nanotweezers consisting of carbon nanotubes operating in an atomic force microscope. <i>Applied Physics Letters</i> , 2001 , 79, 1691-1693	3.4	185
204	Carbon nanotube tips for a scanning probe microscope: their fabrication and properties. <i>Journal Physics D: Applied Physics</i> , 1999 , 32, 1044-1048	3	160
203	Efficient Skin Temperature Sensor and Stable Gel-Less Sticky ECG Sensor for a Wearable Flexible Healthcare Patch. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1700495	10.1	152
202	Orientation of Carbon Nanotubes Using Electrophoresis. <i>Japanese Journal of Applied Physics</i> , 1996 , 35, L917-L918	1.4	147
201	A wearable pH sensor with high sensitivity based on a flexible charge-coupled device. <i>Nature Electronics</i> , 2018 , 1, 596-603	28.4	106
200	Highly selective flexible tactile strain and temperature sensors against substrate bending for an artificial skin. <i>RSC Advances</i> , 2015 , 5, 30170-30174	3.7	88
199	Carbon nanotube oscillators toward zeptogram detection. <i>Applied Physics Letters</i> , 2005 , 86, 133111	3.4	86
198	A molecular linear motor consisting of carbon nanotubes. <i>Nano Letters</i> , 2009 , 9, 62-5	11.5	78
197	High-performance, mechanically flexible, and vertically integrated 3D carbon nanotube and InGaZnO complementary circuits with a temperature sensor. <i>Advanced Materials</i> , 2015 , 27, 4674-80	24	73

196	Enhancement of graphene thermoelectric performance through defect engineering. <i>2D Materials</i> , 2017 , 4, 025019	5.9	72
195	Highly stable kirigami-structured stretchable strain sensors for perdurable wearable electronics. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 9609-9617	7.1	67
194	Carbon-nanotube probe equipped magnetic force microscope. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2000 , 18, 104		65
193	Field-emission device with carbon nanotubes for a flat panel display. <i>Synthetic Metals</i> , 2001 , 117, 207-219	9.6	59
192	Comparison of completed and attempted suicide in Akita, Japan. <i>Psychiatry and Clinical Neurosciences</i> , 2006 , 60, 289-95	6.2	52
191	Carbon-Nanotube Tip for Highly-Reproducible Imaging of Deoxyribonucleic Acid Helical Turns by Noncontact Atomic Force Microscopy. <i>Japanese Journal of Applied Physics</i> , 2000 , 39, L887-L889	1.4	52
190	Influence of stiffness of carbon-nanotube probes in atomic force microscopy. <i>Journal Physics D: Applied Physics</i> , 2000 , 33, 2673-2677	3	52
189	Multimodal Plant Healthcare Flexible Sensor System. <i>ACS Nano</i> , 2020 , 14, 10966-10975	16.7	50
188	Influence of Force Acting on Side Face of Carbon Nanotube in Atomic Force Microscopy. <i>Japanese Journal of Applied Physics</i> , 2000 , 39, 3724-3727	1.4	47
187	Carbon nanotube resonator in liquid. <i>Nano Letters</i> , 2010 , 10, 3395-8	11.5	46
186	Nanoengineering of carbon nanotubes for nanotools. <i>New Journal of Physics</i> , 2003 , 5, 128-128	2.9	46
185	Microprocess for fabricating carbon-nanotube probes of a scanning probe microscope. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2000 , 18, 661		44
184	Interlayer Sliding Force of Individual Multiwall Carbon Nanotubes. <i>Japanese Journal of Applied Physics</i> , 2003 , 42, 4830-4833	1.4	43
183	Extraction of Inner Shell from Multiwall Carbon Nanotubes for Scanning Probe Microscope Tip. <i>Japanese Journal of Applied Physics</i> , 2003 , 42, 3933-3936	1.4	40
182	Quantitative force measurements in liquid using frequency modulation atomic force microscopy. <i>Applied Physics Letters</i> , 2004 , 85, 3575-3577	3.4	40
181	Stable atomic imaging of Si(1 1 1)-7 \times 7 surface by scanning tunneling microscope with carbon nanotube tip. <i>Surface Science</i> , 2001 , 486, L455-L460	1.8	40
180	Atomic force microscopy with carbon nanotube probe resolves the subunit organization of protein complexes. <i>Journal of Electron Microscopy</i> , 2000 , 49, 415-21		38
179	Air Ambient-Operated pNIPAM-Based Flexible Actuators Stimulated by Human Body Temperature and Sunlight. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 11002-6	9.5	37

178	A Wearable Body Condition Sensor System with Wireless Feedback Alarm Functions. <i>Advanced Materials</i> , 2021 , 33, e2008701	24	37
177	Mechanically Flexible and High-Performance CMOS Logic Circuits. <i>Scientific Reports</i> , 2015 , 5, 15099	4.9	36
176	Novel Process for Fabricating Nanodevices Consisting of Carbon Nanotubes. <i>Japanese Journal of Applied Physics</i> , 1999 , 38, 7247-7252	1.4	36
175	Optical Emission Spectroscopy of Arc Flame Plasma for Generation of Carbon Nanotubes. <i>Japanese Journal of Applied Physics</i> , 2000 , 39, 4939-4944	1.4	35
174	Highly Precise Multifunctional Thermal Management-Based Flexible Sensing Sheets. <i>ACS Nano</i> , 2019 , 13, 14348-14356	16.7	35
173	Synthesis of Multiwalled Carbon Nanocoils Using Codeposited Thin Film of FeBn as Catalyst. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 1949-1951	1.4	34
172	Length Adjustment of Carbon Nanotube Probe by Electron Bombardment. <i>Japanese Journal of Applied Physics</i> , 2002 , 41, 4887-4889	1.4	34
171	Textile-Based Flexible Tactile Force Sensor Sheet. <i>Advanced Functional Materials</i> , 2019 , 29, 1807957	15.6	34
170	Human-Like Electronic Skin-Integrated Soft Robotic Hand. <i>Advanced Intelligent Systems</i> , 2019 , 1, 1900018		33
169	Current induced light emission from a multiwall carbon nanotube. <i>Thin Solid Films</i> , 2004 , 464-465, 364-367		31
168	Molecular Dynamics Studies on Mechanical Properties of Carbon Nano Tubes with Pinhole Defects. <i>Japanese Journal of Applied Physics</i> , 2003 , 42, 4120-4123	1.4	31
167	Comparison of Field Emissions from Side Wall and Tip of an Individual Carbon Nanotube. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, 1648-1651	1.4	30
166	Current-Induced Plastic Deformation of Double-Walled Carbon Nanotubes. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, L720-L722	1.4	30
165	Solvent extraction of gallium with non-ionic surfactants from hydrochloric acid solution and its application to metal recovery from zinc refinery residues. <i>Separation and Purification Technology</i> , 2004 , 37, 127-133	8.3	30
164	Selective recovery of gallium with continuous counter-current foam separation and its application to leaching solution of zinc refinery residues. <i>Separation and Purification Technology</i> , 2011 , 78, 181-188	8.3	29
163	Manipulation of Nanomaterial by Carbon Nanotube Nanotweezers in Scanning Probe Microscope. <i>Japanese Journal of Applied Physics</i> , 2002 , 41, 4242-4245	1.4	29
162	Atomic Force Microscopy of Single-Walled Carbon Nanotubes Using Carbon Nanotube Tip. <i>Japanese Journal of Applied Physics</i> , 2000 , 39, 3707-3710	1.4	29
161	Energetics of plastic bending of carbon nanotubes. <i>Physical Review B</i> , 2006 , 74,	3.3	28

160	Chirality Dependence of Mechanical Properties of Single-Walled Carbon Nanotubes under Axial Tensile Strain. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, L1307-L1309	1.4	28
159	Fabrication and characterization of high-resolution AFM tips with high-quality double-wall carbon nanotubes. <i>Chemical Physics Letters</i> , 2006 , 429, 581-585	2.5	27
158	Visualization of Horizontally-Aligned Single-Walled Carbon Nanotube Growth with ¹³ C/ ¹² C Isotopes. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 1735-1738	3.8	26
157	Quantitative Analysis of the Magnetic Properties of Metal-Capped Carbon Nanotube Probe. <i>Japanese Journal of Applied Physics</i> , 2002 , 41, 5013-5016	1.4	26
156	Growth of tungsten carbide nano-needle and its application as a scanning tunnelling microscope tip. <i>Journal Physics D: Applied Physics</i> , 1998 , 31, L49-L51	3	26
155	Photocurrent multiplication in amorphous silicon carbide films. <i>Applied Physics Letters</i> , 1991 , 59, 1992-1994	3.4	26
154	A Planar, Multisensing Wearable Health Monitoring Device Integrated with Acceleration, Temperature, and Electrocardiogram Sensors. <i>Advanced Materials Technologies</i> , 2017 , 2, 1700057	6.8	25
153	Density of electron-beam-induced amorphous carbon deposits. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2005 , 23, 1975		25
152	Thermally Activated Electric Conduction in Carbon Nanotubes. <i>Japanese Journal of Applied Physics</i> , 1995 , 34, L10-L12	1.4	24
151	Printed wearable temperature sensor for health monitoring 2014 ,		23
150	Nanolithography of Organic Polysilane Films Using Carbon Nanotube Tips. <i>Japanese Journal of Applied Physics</i> , 2000 , 39, 3744-3746	1.4	23
149	In situ mass measurement of electron-beam-induced nanometer-sized W-related deposits using a carbon nanotube cantilever. <i>Applied Physics Letters</i> , 2006 , 89, 193115	3.4	22
148	Molecular dynamics study of electron-irradiation effects in single-walled carbon nanotubes. <i>Physical Review B</i> , 2007 , 75,	3.3	21
147	Cooling effect on the growth of carbon nanotubes and optical emission spectroscopy in short-period arc-discharge. <i>Thin Solid Films</i> , 2004 , 464-465, 304-307	2.2	20
146	Molecular Dynamics Study of Double-Walled Carbon Nanotubes for Nano-Mechanical Manipulation. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, 1641-1647	1.4	20
145	Nanoindentation of Polycarbonate Using Carbon Nanotube Tip. <i>Japanese Journal of Applied Physics</i> , 2000 , 39, 7086-7089	1.4	20
144	Single-Wall Carbon Nanotube Field Effect Transistors with Non-Volatile Memory Operation. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, L1036-L1038	1.4	19
143	Buckling of Multiwall Carbon Nanotubes under Axial Compression. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, 5586-5589	1.4	19

142	Plastic bending and shape-memory effect of double-wall carbon nanotubes. <i>Physical Review B</i> , 2007 , 76,	3.3	19
141	Novel operational method of continuous foam separation of gold [Injection of metal and/or surfactant solutions into rising foam bed. <i>Separation and Purification Technology</i> , 2006 , 52, 357-362	8.3	18
140	1D-TlInSe ₂ : Band Structure, Dielectric Function and Nanorods. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, 709-714	1.4	18
139	Improved field emission characteristics of individual carbon nanotube coated with boron nitride nanofilm. <i>Journal of Vacuum Science & Technology B</i> , 2008 , 26, 872		17
138	Barrier Effect on Field Emission from Stand-alone Carbon Nanotube. <i>Japanese Journal of Applied Physics</i> , 2004 , 43, 864-867	1.4	17
137	The cell biological application of carbon nanotube probes for atomic force microscopy: comparative studies of malaria-infected erythrocytes. <i>Journal of Electron Microscopy</i> , 2000 , 49, 453-8		17
136	Correlation between the mechanical and electrical properties of carbon nanotubes. <i>Nanotechnology</i> , 2007 , 18, 035702	3.4	16
135	Diameter Control of Arc Produced Multiwall Carbon Nanotubes by Ambient Gas Cooling. <i>Japanese Journal of Applied Physics</i> , 2002 , 41, L487-L489	1.4	16
134	Photoresponse of graphene field-effect-transistor with n-type Si depletion layer gate. <i>Scientific Reports</i> , 2018 , 8, 4811	4.9	15
133	Effect of MgO coating on field emission of a stand-alone carbon nanotube. <i>Journal of Vacuum Science & Technology B</i> , 2007 , 25, 1581		15
132	Covalent attachment of protein to the tip of a multiwalled carbon nanotube without sidewall decoration. <i>Journal of Applied Physics</i> , 2007 , 102, 094701	2.5	15
131	Orthopedic Treatment of Multiwalled Carbon Nanotube Probes. <i>Japanese Journal of Applied Physics</i> , 2003 , 42, 4866-4868	1.4	15
130	Nanoscale Variable Resistance Using Interlayer Sliding of Multiwall Nanotube. <i>Japanese Journal of Applied Physics</i> , 2004 , 43, 3796-3798	1.4	14
129	Quantitative analysis of the magnetic properties of a carbon nanotube probe in magnetic force microscopy. <i>Journal Physics D: Applied Physics</i> , 2001 , 34, L43-L45	3	14
128	Reduction of Long-range Interactions using Carbon Nanotube Probes in Biological Systems. <i>Japanese Journal of Applied Physics</i> , 2001 , 40, 1425-1428	1.4	14
127	Kelvin Probe Force Microscopy Imaging Using Carbon Nanotube Probe. <i>Japanese Journal of Applied Physics</i> , 2001 , 40, 4314-4316	1.4	14
126	Wireless and Flexible Skin Moisture and Temperature Sensor Sheets toward the Study of Thermoregulator Center. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2100103	10.1	14
125	All-printed, planar-type multi-functional wearable flexible patch integrated with acceleration, temperature, and ECG sensors 2017 ,		13

124	Highly Stable Liquid-Solid Metal Contact Toward Multilayered Detachable Flexible Devices. <i>Advanced Electronic Materials</i> , 2015 , 1, 1500080	6.4	13
123	Effect of Gaseous Dissipation of Oscillating Cantilevered Carbon Nanotubes. <i>Japanese Journal of Applied Physics</i> , 2009 , 48, 06FG04	1.4	13
122	Alignment of Carbon Nanocoils in Polymer Matrix Using Dielectrophoresis. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 1991-1993	1.4	13
121	Highly stable Pd/HfO ₂ -based flexible humidity sensor for perdurable wireless wearable applications. <i>Nanoscale Horizons</i> , 2021 , 6, 260-270	10.8	13
120	Bendable CMOS Digital and Analog Circuits Monolithically Integrated with a Temperature Sensor. <i>Advanced Materials Technologies</i> , 2016 , 1, 1600058	6.8	12
119	One-pass separation of single-wall carbon nanotubes by gel chromatography with a gradient of surfactant concentration. <i>Nanotechnology</i> , 2012 , 23, 235708	3.4	12
118	Molecular Dynamics Simulations for Molecular Linear Motor Inside Nanotube. <i>Japanese Journal of Applied Physics</i> , 2009 , 48, 06FG03	1.4	12
117	Scanning Probe Microscope Lithography of Silicon Using a Combination of a Carbon Nanotube Tip and a Polysilane Film as a Mask. <i>Japanese Journal of Applied Physics</i> , 2002 , 41, 4973-4975	1.4	12
116	An all-solution-processed tactile memory flexible device integrated with a NiO ReRAM. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 9261-9265	7.1	12
115	Artificially controlled synthesis of graphene intramolecular heterojunctions for phonon engineering. <i>Physica Status Solidi - Rapid Research Letters</i> , 2014 , 8, 692-697	2.5	11
114	Resonance Control of a Graphene Drum Resonator in a Nonlinear Regime by a Standing Wave of Light. <i>ACS Omega</i> , 2017 , 2, 5792-5797	3.9	11
113	Highly photosensitive graphene field-effect transistor with optical memory function. <i>Scientific Reports</i> , 2015 , 5, 15491	4.9	11
112	Enhancing the Thermoelectric Device Performance of Graphene Using Isotopes and Isotopic Heterojunctions. <i>Advanced Electronic Materials</i> , 2015 , 1, 1500175	6.4	11
111	Continuous Foam Separation of Metals Enhanced by Down-Flowing Surfactant Solution from Column Top. <i>Chemical Engineering Research and Design</i> , 2007 , 85, 229-233	5.5	11
110	Energy Loss of Carbon Nanotube Cantilevers for Mechanical Vibration. <i>Japanese Journal of Applied Physics</i> , 2007 , 46, 6295-6298	1.4	11
109	Improvement of MFM tips using Fe-alloy-capped carbon nanotubes. <i>Physica B: Condensed Matter</i> , 2002 , 323, 149-150	2.8	11
108	Direct Nanolithography of Organic Polysilane Films Using Carbon Nanotube Tips. <i>Japanese Journal of Applied Physics</i> , 2000 , 39, 7067-7069	1.4	11
107	Mechanism of photocurrent multiplication in amorphous silicon carbide Schottky cells. <i>Journal of Applied Physics</i> , 1995 , 77, 1120-1125	2.5	11

106	Out-of-plane electric whiskers based on nanocarbon strain sensors for multi-directional detection. <i>Carbon</i> , 2020 , 158, 698-703	10.4	11
105	Influence of the structure of the nanotube on the mechanical properties of binder-free multi-walled carbon nanotube solids. <i>Carbon</i> , 2012 , 50, 34-39	10.4	10
104	Diameter-dependent dissipation of vibration energy of cantilevered multiwall carbon nanotubes. <i>Nanotechnology</i> , 2011 , 22, 165702	3.4	10
103	Photothermal Excitation of Cantilevered Carbon Nanotube Resonators. <i>Applied Physics Express</i> , 2012 , 5, 075101	2.4	10
102	Daisylike Field-Emission Images from Standalone Open-Ended Carbon Nanotube. <i>Japanese Journal of Applied Physics</i> , 2004 , 43, L197-L199	1.4	10
101	Vertically Aligned Carbon Nanotubes Grown at Low Temperatures for Use in Displays. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, 5642-5645	1.4	10
100	Dark decay of surface potential: measurement of the density of localized states in highly resistive amorphous silicon alloys. <i>Journal of Non-Crystalline Solids</i> , 1987 , 97-98, 743-746	3.9	10
99	High-rate deposition of photosensitive a-SiC:H using a carbon source of C ₂ H ₂ . <i>Journal of Non-Crystalline Solids</i> , 1987 , 97-98, 1447-1450	3.9	10
98	Multimodal Wearable Sensor Sheet for Health-Related Chemical and Physical Monitoring. <i>ACS Sensors</i> , 2021 , 6, 1918-1924	9.2	10
97	Oscillation control of carbon nanotube mechanical resonator by electrostatic interaction induced retardation. <i>Scientific Reports</i> , 2016 , 6, 22600	4.9	10
96	Effect of defect-induced carrier scattering on the thermoelectric power of graphene. <i>Applied Physics Letters</i> , 2017 , 110, 263501	3.4	9
95	Sustained mechanical self-oscillation of carbon nanotube cantilever by phase locked loop with optomechanical heterodyne. <i>Applied Physics Letters</i> , 2011 , 98, 133103	3.4	9
94	Synthesis of Highly Photosensitive a-SiC:H Films at High Deposition Rate by Plasma Decomposition of SiH ₄ and C ₂ H ₂ . <i>Materials Research Society Symposia Proceedings</i> , 1988 , 118, 73		9
93	Flexible Electronics: Wearable, Human-Interactive, Health-Monitoring, Wireless Devices Fabricated by Macroscale Printing Techniques (Adv. Funct. Mater. 22/2014). <i>Advanced Functional Materials</i> , 2014 , 24, 3298-3298	15.6	8
92	Human-interactive multi-functional electronic wallpaper integrated with sensors and memory. <i>Materials Horizons</i> , 2017 , 4, 1079-1084	14.4	8
91	Printable and foldable electrodes based on a carbon nanotube/polymer composite. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014 , 211, 2631-2634	1.6	8
90	Barrier Modification at Contacts between Carbon Nanotube and Pt Electrode Using Well-Controlled Joule Heating. <i>Japanese Journal of Applied Physics</i> , 2007 , 46, L359-L361	1.4	8
89	Buckling Test under Axial Compression for Multiwall Carbon Nanotubes. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, L1097-L1099	1.4	8

88	Improvement of transfer characteristic for carbon nanotube field effect transistor with poly crystalline PbZrxTi1-xO3 gate by ionic liquid. <i>Applied Physics Letters</i> , 2011 , 99, 223514	3.4	7
87	Effect of Residual Acetylene Gas on Growth of Vertically Aligned Carbon Nanotubes. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 1937-1940	1.4	7
86	Instability of Field Emission from a Standalone Multiwalled Carbon Nanotube with an Insulator Barrier. <i>Japanese Journal of Applied Physics</i> , 2004 , 43, 1651-1654	1.4	7
85	Structural Stability of Carbon Nanotube Tips on Nanoindentation of Polycarbonate. <i>Japanese Journal of Applied Physics</i> , 2001 , 40, 4289-4291	1.4	7
84	Effect of buffer layer on photoresponse of MoS2 phototransistor. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 06HB01	1.4	6
83	Visualization of Vibrating Cantilevered Multilayer Graphene Mechanical Oscillator. <i>Applied Physics Express</i> , 2011 , 4, 115103	2.4	6
82	Comparative effects of volume loading on pulmonary venous flow in dogs with normal heart and with myocardial ischemia. <i>Angiology</i> , 1997 , 48, 401-11	2.1	6
81	Energy Barrier for Disappearance of Buckling to Form a Plastic Bend in Carbon Nanotubes. <i>Japanese Journal of Applied Physics</i> , 2007 , 46, L1055-L1057	1.4	6
80	Depletion-Discharge Transient Spectroscopy: Direct Determination of the Density of Deep Emission States in Amorphous Semiconductors. <i>Japanese Journal of Applied Physics</i> , 1988 , 27, L320-L322 ^{1.4}	1.4	6
79	Mechanical Properties of Sharpened Carbon Nanotube Tips. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, 1637-1640	1.4	6
78	Flapping-Wing Dynamics as a Natural Detector of Wind Direction. <i>Advanced Intelligent Systems</i> , 2021 , 3, 2000174	6	6
77	A Multi-Tasking Flexible Sensor via Reservoir Computing.. <i>Advanced Materials</i> , 2022 , e2201663	24	6
76	Graphene and Carbon Nanotube Heterojunction Transistors with Individual Gate Control. <i>ACS Nano</i> , 2019 , 13, 4771-4777	16.7	5
75	Wrist flexible heart pulse sensor integrated with a soft pump and a pneumatic balloon membrane.. <i>RSC Advances</i> , 2020 , 10, 17353-17358	3.7	5
74	Transformable Pneumatic Balloon-Type Soft Robot Using Attachable Shells. <i>Advanced Materials Technologies</i> , 2020 , 5, 2000201	6.8	5
73	Fabrication of superhydrophobic surfaces from mixtures of aluminum distearate and fatty acids via intermediate organogel formation. <i>Colloid and Polymer Science</i> , 2014 , 292, 1475-1478	2.4	5
72	Molecular Dynamics Simulations for Release of Stuck Carbon Nanotube Cantilever Beam toward Nanorelay Application. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 04CN06	1.4	5
71	Release and nonvolatile operation of carbon nanotube nanorelay by resonant vibration. <i>Applied Physics Letters</i> , 2013 , 103, 203504	3.4	5

70	Nanoincandescent Consisting of Individual Carbon Nanotubes. <i>Applied Physics Express</i> , 2011 , 4, 025101	2.4	5
69	Resonant vibration of cantilevered carbon nanocoil 2007 ,		5
68	Determination of Carbon Nanocoil Orientation by Dielectrophoresis. <i>Japanese Journal of Applied Physics</i> , 2007 , 46, 1815-1817	1.4	5
67	Comparison of Capped Carbon Nanotube with Open-Ended One for Field Emission. <i>Japanese Journal of Applied Physics</i> , 2004 , 43, L427-L429	1.4	5
66	Nanolithography of organic polysilane films using carbon nanotube tips [Application to the etching process. <i>Physica B: Condensed Matter</i> , 2002 , 323, 151-152	2.8	5
65	Mechanical and Electrical Properties of Multiwall Nanotube under Interlayer Sliding. <i>E-Journal of Surface Science and Nanotechnology</i> , 2005 , 3, 86-93	0.7	5
64	Two-way photocurrent-multiplication in amorphous silicon carbide cells. <i>Journal of Non-Crystalline Solids</i> , 1991 , 137-138, 1279-1282	3.9	5
63	A Carbon Nanotube Field-Effect Transistor with a Cantilevered Carbon Nanotube Gate. <i>Applied Physics Express</i> , 2012 , 5, 065101	2.4	5
62	Very Thin, Macroscale, Flexible, Tactile Pressure Sensor Sheet. <i>ACS Omega</i> , 2020 , 5, 17721-17725	3.9	5
61	Detachable Flexible ISFET-Based pH Sensor Array with a Flexible Connector. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000583	6.4	5
60	Control of tunnel barriers in multi-wall carbon nanotubes using focused ion beam irradiation. <i>Nanotechnology</i> , 2017 , 28, 165302	3.4	4
59	Tuning of the temperature dependence of the resonance frequency shift in atomically thin mechanical resonators with van der Waals heterojunctions. <i>2D Materials</i> , 2018 , 5, 045022	5.9	4
58	Superhydrophobic and Self-cleaning Macroscale Surfaces of Silicone Rubber and Its Mechanical Flexibility. <i>BioNanoScience</i> , 2014 , 4, 301-305	3.4	4
57	Direct measurement of optical trapping force gradient on polystyrene microspheres using a carbon nanotube mechanical resonator. <i>Scientific Reports</i> , 2017 , 7, 2825	4.9	4
56	Suspended single-walled carbon-nanotube field-effect transistor for gas sensing application. <i>Japanese Journal of Applied Physics</i> , 2015 , 54, 06FB01	1.4	4
55	In-situ optical microscopy observations of the growth of individual carbon nanocoils. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2014 , 32, 031807	1.3	4
54	Cantilevered carbon nanotube hygrometer. <i>Applied Physics Letters</i> , 2014 , 104, 193104	3.4	4
53	Active-Matrix-Based Flexible Optical Image Sensor. <i>Advanced Materials Technologies</i> , 2021 , 6, 2100259	6.8	4

52	Electronic Skin-Integrated Soft Robotic Hand 2019 ,		3
51	Reduction of carbon byproducts for high-purity carbon nanocoil growth by suppressing catalyst collision. <i>Carbon</i> , 2015 , 89, 225-231	10.4	3
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