

Seiji Akita

List of Publications by Year in descending order

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243
papers

7,573
citations

70961

41
h-index

62479

80
g-index

245
all docs

245
docs citations

245
times ranked

7384
citing authors

#	ARTICLE	IF	CITATIONS
1	Wearable, Human-Interactive, Health-Monitoring, Wireless Devices Fabricated by Macroscale Printing Techniques. <i>Advanced Functional Materials</i> , 2014, 24, 3299-3304.	7.8	392
2	Orientation and purification of carbon nanotubes using ac electrophoresis. <i>Journal Physics D: Applied Physics</i> , 1998, 31, L34-L36.	1.3	346
3	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.	1.5	343
4	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.	4.0	295
5	Toward Flexible and Wearable Human-Interactive Health-Monitoring Devices. <i>Advanced Healthcare Materials</i> , 2015, 4, 487-500.	3.9	289
6	Fully Printed, Highly Sensitive Multifunctional Artificial Electronic Whisker Arrays Integrated with Strain and Temperature Sensors. <i>ACS Nano</i> , 2014, 8, 3921-3927.	7.3	286
7	Fully Printed Flexible Fingerprint-like Three-Axis Tactile and Slip Force and Temperature Sensors for Artificial Skin. <i>ACS Nano</i> , 2014, 8, 12851-12857.	7.3	285
8	Printed multifunctional flexible device with an integrated motion sensor for health care monitoring. <i>Science Advances</i> , 2016, 2, e1601473.	4.7	273
9	Nanotweezers consisting of carbon nanotubes operating in an atomic force microscope. <i>Applied Physics Letters</i> , 2001, 79, 1691-1693.	1.5	235
10	Efficient Skin Temperature Sensor and Stable Gel-Free Sticky ECG Sensor for a Wearable Flexible Healthcare Patch. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700495.	3.9	223
11	Carbon nanotube tips for a scanning probe microscope: their fabrication and properties. <i>Journal Physics D: Applied Physics</i> , 1999, 32, 1044-1048.	1.3	184
12	Orientation of Carbon Nanotubes Using Electrophoresis. <i>Japanese Journal of Applied Physics</i> , 1996, 35, L917-L918.	0.8	170
13	A wearable pH sensor with high sensitivity based on a flexible charge-coupled device. <i>Nature Electronics</i> , 2018, 1, 596-603.	13.1	167
14	Multimodal Plant Healthcare Flexible Sensor System. <i>ACS Nano</i> , 2020, 14, 10966-10975.	7.3	129
15	Highly selective flexible tactile strain and temperature sensors against substrate bending for an artificial skin. <i>RSC Advances</i> , 2015, 5, 30170-30174.	1.7	128
16	Highly stable kirigami-structured stretchable strain sensors for perdurable wearable electronics. <i>Journal of Materials Chemistry C</i> , 2019, 7, 9609-9617.	2.7	124
17	Enhancement of graphene thermoelectric performance through defect engineering. <i>2D Materials</i> , 2017, 4, 025019.	2.0	113
18	A Wearable Body Condition Sensor System with Wireless Feedback Alarm Functions. <i>Advanced Materials</i> , 2021, 33, e2008701.	11.1	104

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19	High-Performance, Mechanically Flexible, and Vertically Integrated 3D Carbon Nanotube and InGaZnO Complementary Circuits with a Temperature Sensor. <i>Advanced Materials</i> , 2015, 27, 4674-4680.	11.1	99
20	Carbon nanotube oscillators toward zeptogram detection. <i>Applied Physics Letters</i> , 2005, 86, 133111.	1.5	92
21	A Molecular Linear Motor Consisting of Carbon Nanotubes. <i>Nano Letters</i> , 2009, 9, 62-65.	4.5	88
22	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.	1.6	71
23	Field-emission device with carbon nanotubes for a flat panel display. <i>Synthetic Metals</i> , 2001, 117, 207-210.	2.1	66
24	Comparison of completed and attempted suicide in Akita, Japan. <i>Psychiatry and Clinical Neurosciences</i> , 2006, 60, 289-295.	1.0	62
25	Human-Like Electronic Skin-Integrated Soft Robotic Hand. <i>Advanced Intelligent Systems</i> , 2019, 1, 1900018.	3.3	60
26	Influence of stiffness of carbon-nanotube probes in atomic force microscopy. <i>Journal Physics D: Applied Physics</i> , 2000, 33, 2673-2677.	1.3	59
27	Carbon Nanotube Resonator in Liquid. <i>Nano Letters</i> , 2010, 10, 3395-3398.	4.5	57
28	Highly Precise Multifunctional Thermal Management-Based Flexible Sensing Sheets. <i>ACS Nano</i> , 2019, 13, 14348-14356.	7.3	57
29	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.	0.8	55
30	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.	0.8	55
31	Nanoengineering of carbon nanotubes for nanotools. <i>New Journal of Physics</i> , 2003, 5, 128-128.	1.2	53
32	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.	1.6	49
33	Extraction of Inner Shell from Multiwall Carbon Nanotubes for Scanning Probe Microscope Tip. <i>Japanese Journal of Applied Physics</i> , 2003, 42, 3933-3936.	0.8	49
34	Interlayer Sliding Force of Individual Multiwall Carbon Nanotubes. <i>Japanese Journal of Applied Physics</i> , 2003, 42, 4830-4833.	0.8	48
35	Novel Process for Fabricating Nanodevices Consisting of Carbon Nanotubes. <i>Japanese Journal of Applied Physics</i> , 1999, 38, 7247-7252.	0.8	46
36	Stable atomic imaging of Si(111)-7 \times 7 surface by scanning tunneling microscope with carbon nanotube tip. <i>Surface Science</i> , 2001, 486, L455-L460.	0.8	46

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37	Textile-Based Flexible Tactile Force Sensor Sheet. <i>Advanced Functional Materials</i> , 2019, 29, 1807957.	7.8	46
38	Air Ambient-Operated pNIPAM-Based Flexible Actuators Stimulated by Human Body Temperature and Sunlight. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 11002-11006.	4.0	45
39	Quantitative force measurements in liquid using frequency modulation atomic force microscopy. <i>Applied Physics Letters</i> , 2004, 85, 3575-3577.	1.5	44
40	Optical Emission Spectroscopy of Arc Flame Plasma for Generation of Carbon Nanotubes. <i>Japanese Journal of Applied Physics</i> , 2000, 39, 4939-4944.	0.8	42
41	Mechanically Flexible and High-Performance CMOS Logic Circuits. <i>Scientific Reports</i> , 2015, 5, 15099.	1.6	42
42	Synthesis of Multiwalled Carbon Nanocoils Using Codeposited Thin Film of Fe-Sn as Catalyst. <i>Japanese Journal of Applied Physics</i> , 2008, 47, 1949-1951.	0.8	41
43	Atomic force microscopy with carbon nanotube probe resolves the subunit organization of protein complexes. <i>Journal of Electron Microscopy</i> , 2000, 49, 415-421.	0.9	40
44	Manipulation of Nanomaterial by Carbon Nanotube Nanotweezers in Scanning Probe Microscope. <i>Japanese Journal of Applied Physics</i> , 2002, 41, 4242-4245.	0.8	40
45	Length Adjustment of Carbon Nanotube Probe by Electron Bombardment. <i>Japanese Journal of Applied Physics</i> , 2002, 41, 4887-4889.	0.8	38
46	Multimodal Wearable Sensor Sheet for Health-Related Chemical and Physical Monitoring. <i>ACS Sensors</i> , 2021, 6, 1918-1924.	4.0	38
47	Current-Induced Plastic Deformation of Double-Walled Carbon Nanotubes. <i>Japanese Journal of Applied Physics</i> , 2005, 44, L720-L722.	0.8	37
48	Wireless and Flexible Skin Moisture and Temperature Sensor Sheets toward the Study of Thermoregulator Center. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100103.	3.9	36
49	Highly stable Pd/HNb ₃ O ₈ -based flexible humidity sensor for perdurable wireless wearable applications. <i>Nanoscale Horizons</i> , 2021, 6, 260-270.	4.1	36
50	Atomic Force Microscopy of Single-Walled Carbon Nanotubes Using Carbon Nanotube Tip. <i>Japanese Journal of Applied Physics</i> , 2000, 39, 3707-3710.	0.8	35
51	A Planar, Multisensing Wearable Health Monitoring Device Integrated with Acceleration, Temperature, and Electrocardiogram Sensors. <i>Advanced Materials Technologies</i> , 2017, 2, 1700057.	3.0	35
52	Molecular Dynamics Studies on Mechanical Properties of Carbon Nano Tubes with Pinhole Defects. <i>Japanese Journal of Applied Physics</i> , 2003, 42, 4120-4123.	0.8	34
53	Current induced light emission from a multiwall carbon nanotube. <i>Thin Solid Films</i> , 2004, 464-465, 364-367.	0.8	34
54	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.	0.8	34

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55	Printed wearable temperature sensor for health monitoring. , 2014, , .		34
56	Solvent extraction of gallium with non-ionic surfactants from hydrochloric acid solution and its application to metal recovery from zinc refinery residues. Separation and Purification Technology, 2004, 37, 127-133.	3.9	33
57	Fabrication and characterization of high-resolution AFM tips with high-quality double-wall carbon nanotubes. Chemical Physics Letters, 2006, 429, 581-585.	1.2	33
58	Selective recovery of gallium with continuous counter-current foam separation and its application to leaching solution of zinc refinery residues. Separation and Purification Technology, 2011, 78, 181-188.	3.9	33
59	Photocurrent multiplication in amorphous silicon carbide films. Applied Physics Letters, 1991, 59, 1992-1994.	1.5	31
60	Chirality Dependence of Mechanical Properties of Single-Walled Carbon Nanotubes under Axial Tensile Strain. Japanese Journal of Applied Physics, 2005, 44, L1307-L1309.	0.8	30
61	Energetics of plastic bending of carbon nanotubes. Physical Review B, 2006, 74, .	1.1	30
62	Visualization of Horizontally-Aligned Single-Walled Carbon Nanotube Growth with ¹³ C/ ¹² C Isotopes. Journal of Physical Chemistry C, 2008, 112, 1735-1738.	1.5	30
63	Nanolithography of Organic Polysilane Films Using Carbon Nanotube Tips. Japanese Journal of Applied Physics, 2000, 39, 3744-3746.	0.8	29
64	Quantitative Analysis of the Magnetic Properties of Metal-Capped Carbon Nanotube Probe. Japanese Journal of Applied Physics, 2002, 41, 5013-5016.	0.8	28
65	Thermally Activated Electric Conduction in Carbon Nanotubes. Japanese Journal of Applied Physics, 1995, 34, L10-L12.	0.8	27
66	Growth of tungsten carbide nano-needle and its application as a scanning tunnelling microscope tip. Journal Physics D: Applied Physics, 1998, 31, L49-L51.	1.3	27
67	Density of electron-beam-induced amorphous carbon deposits. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2005, 23, 1975.	1.6	27
68	Nanoindentation of Polycarbonate Using Carbon Nanotube Tip. Japanese Journal of Applied Physics, 2000, 39, 7086-7089.	0.8	24
69	A wearable, flexible sensor for real-time, home monitoring of sleep apnea. IScience, 2022, 25, 104163.	1.9	23
70	Cooling effect on the growth of carbon nanotubes and optical emission spectroscopy in short-period arc-discharge. Thin Solid Films, 2004, 464-465, 304-307.	0.8	22
71	Molecular Dynamics Study of Double-Walled Carbon Nanotubes for Nano-Mechanical Manipulation. Japanese Journal of Applied Physics, 2005, 44, 1641-1647.	0.8	22
72	In situ mass measurement of electron-beam-induced nanometer-sized W-related deposits using a carbon nanotube cantilever. Applied Physics Letters, 2006, 89, 193115.	1.5	22

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73	Diameter Control of Arc Produced Multiwall Carbon Nanotubes by Ambient Gas Cooling. Japanese Journal of Applied Physics, 2002, 41, L487-L489.	0.8	21
74	Molecular dynamics study of electron-irradiation effects in single-walled carbon nanotubes. Physical Review B, 2007, 75, .	1.1	21
75	Plastic bending and shape-memory effect of double-wall carbon nanotubes. Physical Review B, 2007, 76, .	1.1	21
76	A Multitasking Flexible Sensor via Reservoir Computing. Advanced Materials, 2022, 34, e2201663.	11.1	21
77	Novel operational method of continuous foam separation of gold “ Injection of metal and/or surfactant solutions into rising foam bed. Separation and Purification Technology, 2006, 52, 357-362.	3.9	20
78	Single-Wall Carbon Nanotube Field Effect Transistors with Non-Volatile Memory Operation. Japanese Journal of Applied Physics, 2006, 45, L1036-L1038.	0.8	20
79	Correlation between the mechanical and electrical properties of carbon nanotubes. Nanotechnology, 2007, 18, 035702.	1.3	20
80	The cell biological application of carbon nanotube probes for atomic force microscopy: comparative studies of malaria-infected erythrocytes. Journal of Electron Microscopy, 2000, 49, 453-458.	0.9	19
81	1D-TlInSe2: Band Structure, Dielectric Function and Nanorods. Japanese Journal of Applied Physics, 2005, 44, 709-714.	0.8	19
82	Buckling of Multiwall Carbon Nanotubes under Axial Compression. Japanese Journal of Applied Physics, 2006, 45, 5586-5589.	0.8	19
83	Photoresponse of graphene field-effect-transistor with n-type Si depletion layer gate. Scientific Reports, 2018, 8, 4811.	1.6	19
84	All-printed, planar-type multi-functional wearable flexible patch integrated with acceleration, temperature, and ECG sensors. , 2017, , .		18
85	Kelvin Probe Force Microscopy Imaging Using Carbon Nanotube Probe. Japanese Journal of Applied Physics, 2001, 40, 4314-4316.	0.8	17
86	Barrier Effect on Field Emission from Stand-alone Carbon Nanotube. Japanese Journal of Applied Physics, 2004, 43, 864-867.	0.8	17
87	Effect of MgO coating on field emission of a stand-alone carbon nanotube. Journal of Vacuum Science & Technology B, 2007, 25, 1581.	1.3	17
88	Covalent attachment of protein to the tip of a multiwalled carbon nanotube without sidewall decoration. Journal of Applied Physics, 2007, 102, 094701.	1.1	17
89	Improved field emission characteristics of individual carbon nanotube coated with boron nitride nanofilm. Journal of Vacuum Science & Technology B, 2008, 26, 872-875.	1.3	17
90	Quantitative analysis of the magnetic properties of a carbon nanotube probe in magnetic force microscopy. Journal Physics D: Applied Physics, 2001, 34, L43-L45.	1.3	16

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91	Orthopedic Treatment of Multiwalled Carbon Nanotube Probes. Japanese Journal of Applied Physics, 2003, 42, 4866-4868.	0.8	16
92	Nanoscale Variable Resistance Using Interlayer Sliding of Multiwall Nanotube. Japanese Journal of Applied Physics, 2004, 43, 3796-3798.	0.8	16
93	Bendable CMOS Digital and Analog Circuits Monolithically Integrated with a Temperature Sensor. Advanced Materials Technologies, 2016, 1, 1600058.	3.0	16
94	Effect of Gaseous Dissipation of Oscillating Cantilevered Carbon Nanotubes. Japanese Journal of Applied Physics, 2009, 48, 06FG04.	0.8	15
95	Artificially controlled synthesis of graphene intramolecular heterojunctions for phonon engineering. Physica Status Solidi - Rapid Research Letters, 2014, 8, 692-697.	1.2	15
96	Highly Stable Liquid-Solid Metal Contact Toward Multilayered Detachable Flexible Devices. Advanced Electronic Materials, 2015, 1, 1500080.	2.6	15
97	An all-solution-processed tactile memory flexible device integrated with a NiO ReRAM. Journal of Materials Chemistry C, 2016, 4, 9261-9265.	2.7	15
98	Resonance Control of a Graphene Drum Resonator in a Nonlinear Regime by a Standing Wave of Light. ACS Omega, 2017, 2, 5792-5797.	1.6	15
99	Reduction of Long-range Interactions using Carbon Nanotube Probes in Biological Systems. Japanese Journal of Applied Physics, 2001, 40, 1425-1428.	0.8	14
100	Alignment of Carbon Nanocoils in Polymer Matrix Using Dielectrophoresis. Japanese Journal of Applied Physics, 2008, 47, 1991-1993.	0.8	14
101	One-pass separation of single-wall carbon nanotubes by gel chromatography with a gradient of surfactant concentration. Nanotechnology, 2012, 23, 235708.	1.3	14
102	Enhancing the Thermoelectric Device Performance of Graphene Using Isotopes and Isotopic Heterojunctions. Advanced Electronic Materials, 2015, 1, 1500175.	2.6	14
103	Effect of defect-induced carrier scattering on the thermoelectric power of graphene. Applied Physics Letters, 2017, 110, 263501.	1.5	14
104	Out-of-plane electric whiskers based on nanocarbon strain sensors for multi-directional detection. Carbon, 2020, 158, 698-703.	5.4	14
105	Flapping-Wing Dynamics as a Natural Detector of Wind Direction. Advanced Intelligent Systems, 2021, 3, 2000174.	3.3	14
106	Improvement of MFM tips using Fe-alloy-capped carbon nanotubes. Physica B: Condensed Matter, 2002, 323, 149-150.	1.3	13
107	Energy Loss of Carbon Nanotube Cantilevers for Mechanical Vibration. Japanese Journal of Applied Physics, 2007, 46, 6295-6298.	0.8	13
108	Continuous Foam Separation of Metals Enhanced by Down-Flowing Surfactant Solution from Column Top. Chemical Engineering Research and Design, 2007, 85, 229-233.	2.7	13

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109	Molecular Dynamics Simulations for Molecular Linear Motor Inside Nanotube. Japanese Journal of Applied Physics, 2009, 48, 06FG03.	0.8	13
110	Highly photosensitive graphene field-effect transistor with optical memory function. Scientific Reports, 2015, 5, 15491.	1.6	13
111	Very Thin, Macroscale, Flexible, Tactile Pressure Sensor Sheet. ACS Omega, 2020, 5, 17721-17725.	1.6	13
112	Mechanism of photocurrent multiplication in amorphous silicon carbide Schottky cells. Journal of Applied Physics, 1995, 77, 1120-1125.	1.1	12
113	Direct Nanolithography of Organic Polysilane Films Using Carbon Nanotube Tips. Japanese Journal of Applied Physics, 2000, 39, 7067-7069.	0.8	12
114	Scanning Probe Microscope Lithography of Silicon Using a Combination of a Carbon Nanotube Tip and a Polysilane Film as a Mask. Japanese Journal of Applied Physics, 2002, 41, 4973-4975.	0.8	12
115	Flexible Electronics: Wearable, Human-Interactive, Health-Monitoring, Wireless Devices Fabricated by Macroscale Printing Techniques (Adv. Funct. Mater. 22/2014). Advanced Functional Materials, 2014, 24, 3298-3298.	7.8	12
116	Transformable Pneumatic Balloon-Type Soft Robot Using Attachable Shells. Advanced Materials Technologies, 2020, 5, 2000201.	3.0	12
117	Vertically Aligned Carbon Nanotubes Grown at Low Temperatures for Use in Displays. Japanese Journal of Applied Physics, 2005, 44, 5642-5645.	0.8	11
118	Printable and foldable electrodes based on a carbon nanotube-polymer composite. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 2631-2634.	0.8	11
119	Oscillation control of carbon nanotube mechanical resonator by electrostatic interaction induced retardation. Scientific Reports, 2016, 6, 22600.	1.6	11
120	Human-interactive multi-functional electronic wallpaper integrated with sensors and memory. Materials Horizons, 2017, 4, 1079-1084.	6.4	11
121	Dark decay of surface potential: measurement of the density of localized states in highly resistive amorphous silicon alloys. Journal of Non-Crystalline Solids, 1987, 97-98, 743-746.	1.5	10
122	High-rate deposition of photosensitive a-SiC:H using a carbon source of C ₂ H ₂ . Journal of Non-Crystalline Solids, 1987, 97-98, 1447-1450.	1.5	10
123	Synthesis of Highly Photosensitive a-SiC:H Films at High Deposition Rate by Plasma Decomposition of SiH ₄ and C ₂ H ₂ . Materials Research Society Symposia Proceedings, 1988, 118, 73.	0.1	10
124	Daisylike Field-Emission Images from Standalone Open-Ended Carbon Nanotube. Japanese Journal of Applied Physics, 2004, 43, L197-L199.	0.8	10
125	Buckling Test under Axial Compression for Multiwall Carbon Nanotubes. Japanese Journal of Applied Physics, 2005, 44, L1097-L1099.	0.8	10
126	Sustained mechanical self-oscillation of carbon nanotube cantilever by phase locked loop with optomechanical heterodyne. Applied Physics Letters, 2011, 98, .	1.5	10

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127	Diameter-dependent dissipation of vibration energy of cantilevered multiwall carbon nanotubes. Nanotechnology, 2011, 22, 165702.	1.3	10
128	Photothermal Excitation of Cantilevered Carbon Nanotube Resonators. Applied Physics Express, 2012, 5, 075101.	1.1	10
129	Influence of the structure of the nanotube on the mechanical properties of binder-free multi-walled carbon nanotube solids. Carbon, 2012, 50, 34-39.	5.4	10
130	Effect of buffer layer on photoresponse of MoS ₂ phototransistor. Japanese Journal of Applied Physics, 2018, 57, 06HB01.	0.8	9
131	Graphene and Carbon Nanotube Heterojunction Transistors with Individual Gate Control. ACS Nano, 2019, 13, 4771-4777.	7.3	9
132	Controlling the thermal conductivity of multilayer graphene by strain. Scientific Reports, 2021, 11, 19533.	1.6	9
133	Energy Barrier for Disappearance of Buckling to Form a Plastic Bend in Carbon Nanotubes. Japanese Journal of Applied Physics, 2007, 46, L1055-L1057.	0.8	8
134	Barrier Modification at Contacts between Carbon Nanotube and Pt Electrode Using Well-Controlled Joule Heating. Japanese Journal of Applied Physics, 2007, 46, L359-L361.	0.8	8
135	Effect of Residual Acetylene Gas on Growth of Vertically Aligned Carbon Nanotubes. Japanese Journal of Applied Physics, 2008, 47, 1937.	0.8	8
136	Improvement of transfer characteristic for carbon nanotube field effect transistor with polycrystalline PbZr _x Ti _{1-x} O ₃ gate by ionic liquid. Applied Physics Letters, 2011, 99, 223514.	1.5	8
137	Fabrication of superhydrophobic surfaces from mixtures of aluminum distearate and fatty acids via intermediate organogel formation. Colloid and Polymer Science, 2014, 292, 1475-1478.	1.0	8
138	Tuning of the temperature dependence of the resonance frequency shift in atomically thin mechanical resonators with van der Waals heterojunctions. 2D Materials, 2018, 5, 045022.	2.0	8
139	Detachable Flexible ISFET-Based pH Sensor Array with a Flexible Connector. Advanced Electronic Materials, 2020, 6, 2000583.	2.6	8
140	Mechanical Properties of Sharpened Carbon Nanotube Tips. Japanese Journal of Applied Physics, 2005, 44, 1637-1640.	0.8	8
141	Comparative Effects of Volume Loading on Pulmonary Venous Flow in Dogs with Normal Heart and with Myocardial Ischemia. Angiology, 1997, 48, 401-411.	0.8	7
142	Structural Stability of Carbon Nanotube Tips on Nanoindentation of Polycarbonate. Japanese Journal of Applied Physics, 2001, 40, 4289-4291.	0.8	7
143	Instability of Field Emission from a Standalone Multiwalled Carbon Nanotube with an Insulator Barrier. Japanese Journal of Applied Physics, 2004, 43, 1651-1654.	0.8	7
144	Visualization of Vibrating Cantilevered Multilayer Graphene Mechanical Oscillator. Applied Physics Express, 2011, 4, 115103.	1.1	7

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145	Direct measurement of optical trapping force gradient on polystyrene microspheres using a carbon nanotube mechanical resonator. <i>Scientific Reports</i> , 2017, 7, 2825.	1.6	7
146	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.	0.8	6
147	Two-way photocurrent-multiplication in amorphous silicon carbide cells. <i>Journal of Non-Crystalline Solids</i> , 1991, 137-138, 1279-1282.	1.5	6
148	Nanolithography of organic polysilane films using carbon nanotube tips – Application to the etching process. <i>Physica B: Condensed Matter</i> , 2002, 323, 151-152.	1.3	6
149	Comparison of Capped Carbon Nanotube with Open-Ended One for Field Emission. <i>Japanese Journal of Applied Physics</i> , 2004, 43, L427-L429.	0.8	6
150	Wrist flexible heart pulse sensor integrated with a soft pump and a pneumatic balloon membrane. <i>RSC Advances</i> , 2020, 10, 17353-17358.	1.7	6
151	Active-Matrix-Based Flexible Optical Image Sensor. <i>Advanced Materials Technologies</i> , 2021, 6, 2100259.	3.0	6
152	A Carbon Nanotube Field-Effect Transistor with a Cantilevered Carbon Nanotube Gate. <i>Applied Physics Express</i> , 2012, 5, 065101.	1.1	6
153	Wireless, minimized, stretchable, and breathable electrocardiogram sensor system. <i>Applied Physics Reviews</i> , 2022, 9, .	5.5	6
154	Mechanical and Electrical Properties of Multiwall Nanotube under Interlayer Sliding. <i>E-Journal of Surface Science and Nanotechnology</i> , 2005, 3, 86-93.	0.1	5
155	Resonant vibration of cantilevered carbon nanocoil. , 2007, , .		5
156	Determination of Carbon Nanocoil Orientation by Dielectrophoresis. <i>Japanese Journal of Applied Physics</i> , 2007, 46, 1815-1817.	0.8	5
157	Nanoincandescent Consisting of Individual Carbon Nanotubes. <i>Applied Physics Express</i> , 2011, 4, 025101.	1.1	5
158	Molecular Dynamics Simulations for Release of Stuck Carbon Nanotube Cantilever Beam toward Nanorelay Application. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 04CN06.	0.8	5
159	Release and nonvolatile operation of carbon nanotube nanorelay by resonant vibration. <i>Applied Physics Letters</i> , 2013, 103, 203504.	1.5	5
160	Superhydrophobic and Self-cleaning Macroscale Surfaces of Silicone Rubber and Its Mechanical Flexibility. <i>BioNanoScience</i> , 2014, 4, 301-305.	1.5	5
161	Electronic Skin-Integrated Soft Robotic Hand. , 2019, , .		5
162	Scanning Probe Microscope Tip with Carbon Nanotube Truss. <i>Japanese Journal of Applied Physics</i> , 2004, 43, 4499-4501.	0.8	4

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163	Characteristics of 4H-SiC Pt-gate metal-semiconductor field-effect transistor for use at high temperatures. <i>Thin Solid Films</i> , 2008, 517, 1468-1470.	0.8	4
164	Study of high temperature photocurrent properties of 6H-SiC UV sensor. <i>Thin Solid Films</i> , 2008, 517, 1471-1473.	0.8	4
165	Response of Carbon Nanotube Field Effect Transistors to Vibrating Gate Determined by Scanning Gate Microscopy. <i>Japanese Journal of Applied Physics</i> , 2009, 48, 04C202.	0.8	4
166	Temperature Dependence of Cantilevered Carbon Nanotube Oscillation. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 06GK02.	0.8	4
167	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.	0.6	4
168	Cantilevered carbon nanotube hygrometer. <i>Applied Physics Letters</i> , 2014, 104, 193104.	1.5	4
169	Suspended single-walled carbon-nanotube field-effect transistor for gas sensing application. <i>Japanese Journal of Applied Physics</i> , 2015, 54, 06FB01.	0.8	4
170	Electrical powerless, thermal and optical responsive polymer-based actuator. , 2015, , .		4
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