

Wanjun Park

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.

85
papers

1,829
citations

23
h-index

41
g-index

92
ext. papers

2,100
ext. citations

4.6
avg, IF

4.59
L-index

#	Paper	IF	Citations
85	An artificial neural tactile sensing system. <i>Nature Electronics</i> , 2021 , 4, 429-438	28.4	34
84	Uniform pressure responses for nanomaterials-based biological on-skin flexible pressure sensor array. <i>Carbon</i> , 2021 , 181, 169-176	10.4	8
83	A Hierarchical 3D Graphene Nanocomposite Foam for Extremely Tough, Non-Wettable, and Elastic Conductor. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000354	4.6	2
82	Ecoflex-Passivated Graphene-Yarn Composite for a Highly Conductive and Stretchable Strain Sensor. <i>Journal of Nanoscience and Nanotechnology</i> , 2019 , 19, 6690-6695	1.3	10
81	A Highly Efficient Absorbent for Various Organic Solvents Using Hydrophobic Graphene-Sponge Composite. <i>Journal of Nanoscience and Nanotechnology</i> , 2019 , 19, 6675-6681	1.3	2
80	Reconfigurable Logic Gates with in-Plane Magnetic Tunnel Junctions Representing Full Boolean Functions. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019 , 216, 1800959	1.6	1
79	Reconfigurable logic for carry-out computing in 1-bit full adder using a single magnetic tunnel junction. <i>Solid-State Electronics</i> , 2019 , 154, 16-19	1.7	1
78	High-Output and Bending-Tolerant Triboelectric Nanogenerator Based on an Interlocked Array of Surface-Functionalized Indium Tin Oxide Nanohelices. <i>ACS Energy Letters</i> , 2019 , 4, 1748-1754	20.1	30
77	A Stretchable Graphene Thin-Film Sensor for Detecting All of Lateral and Vertical Strains. <i>Journal of Nanoscience and Nanotechnology</i> , 2019 , 19, 1585-1591	1.3	1
76	A Flexible Graphene-Polydimethylsiloxane Nanocomposite Force Sensor with Linear Response Across a Wide Pressure Detection Range. <i>Journal of Nanoscience and Nanotechnology</i> , 2019 , 19, 1630-1634	1.3	5
75	Recognition, classification, and prediction of the tactile sense. <i>Nanoscale</i> , 2018 , 10, 10545-10553	7.7	14
74	Force Sensors: A Highly Sensitive Force Sensor with Fast Response Based on Interlocked Arrays of Indium Tin Oxide Nanosprings toward Human Tactile Perception (Adv. Funct. Mater. 42/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870304	15.6	
73	A Highly Sensitive Force Sensor with Fast Response Based on Interlocked Arrays of Indium Tin Oxide Nanosprings toward Human Tactile Perception. <i>Advanced Functional Materials</i> , 2018 , 28, 1804132	15.6	26
72	All-graphene strain sensor on soft substrate. <i>Carbon</i> , 2017 , 116, 753-759	10.4	111
71	A tactile sensor using single layer graphene for surface texture recognition. <i>Nanoscale</i> , 2017 , 9, 10248-10255	7.7	27
70	Construction of a Bit Stream Using Telegraphic Switching of a Two-Input Magnetic Tunnel Junction. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-4	2	1
69	Touch stimulated pulse generation in biomimetic single-layer graphene. <i>Nanoscale</i> , 2016 , 8, 3425-31	7.7	6

68	Reduction of hole doping of chemical vapor deposition grown graphene by photoresist selection and thermal treatment. <i>Nanotechnology</i> , 2016 , 27, 505205	3.4	12
67	Enhancing the quality of transferred single-layer graphene with poly(4-vinylphenol) interlayer on flexible substrates. <i>Japanese Journal of Applied Physics</i> , 2016 , 55, 060305	1.4	1
66	Formation of Intercalation Path for Oxygen Through Imperfections in Graphene on Metal Substrate: A Density Functional Theory Study. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 11992-11996	1.3	1
65	A tactile sensor using a conductive graphene-sponge composite. <i>Nanoscale</i> , 2016 , 8, 9185-92	7.7	76
64	The universal magnetic tunnel junction logic gates representing 16 binary Boolean logic operations. <i>Journal of Applied Physics</i> , 2015 , 117, 17D717	2.5	15
63	An Associative Memory Device Using a Magnetic Tunnel Junction. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	7
62	A Single Magnetic Tunnel Junction Representing the Basic Logic Functions AND, NOR, and IMP. <i>IEEE Electron Device Letters</i> , 2015 , 36, 402-404	4.4	12
61	Neural coding using telegraphic switching of magnetic tunnel junction. <i>Journal of Applied Physics</i> , 2015 , 117, 17D714	2.5	13
60	A tactile sensor using a graphene film formed by the reduced graphene oxide flakes and its detection of surface morphology. <i>Carbon</i> , 2015 , 94, 982-987	10.4	36
59	High-Density Physical Random Number Generator Using Spin Signals in Multidomain Ferromagnetic Layer. <i>Advances in Condensed Matter Physics</i> , 2015 , 2015, 1-8	1	4
58	A highly sensitive pressure sensor using a double-layered graphene structure for tactile sensing. <i>Nanoscale</i> , 2015 , 7, 11652-9	7.7	63
57	Perpendicular Magnetic Anisotropy for CoFeBZr/MgO. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	
56	Perpendicular Magnetization of Ta/Ru/Ta/Co/Fe/MgO Multilayer. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	2
55	Fabrication of a Flexible Graphene Pressure Sensor. <i>Journal of Nanoscience and Nanotechnology</i> , 2015 , 15, 9020-4	1.3	3
54	A graphene force sensor with pressure-amplifying structure. <i>Carbon</i> , 2014 , 78, 601-608	10.4	53
53	A flexible graphene touch sensor in the general human touch range. <i>Applied Physics Letters</i> , 2014 , 105, 041907	3.4	36
52	Enhancement of integrity of graphene transferred by interface energy modulation. <i>Carbon</i> , 2013 , 65, 165-174	10.4	6
51	The roles of wetting liquid in the transfer process of single layer graphene onto arbitrary substrates. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 7396-400	1.3	2

50	Effect of the metal work function on the electrical properties of carbon nanotube network transistors. <i>Journal of the Korean Physical Society</i> , 2012 , 60, 1680-1684	0.6	
49	Perpendicular magnetization of CoZr/Pt multilayers. <i>Journal of the Korean Physical Society</i> , 2012 , 60, 1690-1694	0.6	
48	Electrical Properties of Silicon Nanowire Fabricated by Patterning and Oxidation Process. <i>IEEE Nanotechnology Magazine</i> , 2012 , 11, 565-569	2.6	5
47	Improvement in the I_{ON} characteristics of carbon nanotube network transistors using microwave treatment. <i>Journal of the Korean Physical Society</i> , 2012 , 61, 1587-1591	0.6	
46	Current-driven switching property of MgO-based magnetic tunnel junctions with a CoFeB free layer with in-plane magnetization. <i>Journal of the Korean Physical Society</i> , 2012 , 61, 1596-1599	0.6	
45	Effects of defects and non-coordinating molecular overlayers on the work function of graphene and energy-level alignment with organic molecules. <i>Carbon</i> , 2012 , 50, 851-856	10.4	15
44	Effect of charge-transfer complex on the energy level alignment between graphene and organic molecules. <i>Applied Physics Letters</i> , 2012 , 100, 183102	3.4	5
43	Post annealing effect on the electrical properties of top-gate SWNT network transistors. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 5955-8	1.3	
42	The geometrical effect of single walled carbon nanotube network transistors on low frequency noise characteristics. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 6080-3	1.3	
41	Charge conversion effects of carbon nanotube network transistors by temperature for Al ₂ O ₃ gate dielectric formation. <i>Applied Physics Letters</i> , 2010 , 97, 032117	3.4	6
40	Gate dielectric effects on subthreshold transport of carbon nanotube network transistors grown by plasma-enhanced chemical vapor deposition. <i>Journal of the Korean Physical Society</i> , 2010 , 56, 598-601	0.6	2
39	Transport properties of field effect transistors with randomly networked single walled carbon nanotubes grown by plasma enhanced chemical vapour deposition. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 175106	3	4
38	Thin film transistors using preferentially grown semiconducting single-walled carbon nanotube networks by water-assisted plasma-enhanced chemical vapor deposition. <i>Nanotechnology</i> , 2009 , 20, 295201	3.4	23
37	Sonochemical Preparation of Shape-Selective ZnO Nanostructures. <i>Crystal Growth and Design</i> , 2008 , 8, 265-269	3.5	201
36	Noise characteristics of single-walled carbon nanotube network transistors. <i>Nanotechnology</i> , 2008 , 19, 285705	3.4	12
35	Unusual transport characteristics of nitrogen-doped single-walled carbon nanotubes. <i>Applied Physics Letters</i> , 2008 , 93, 043113	3.4	35
34	Electrical responses by effects of molecular adsorption on channel and junctions of carbon nanotube field effect transistors. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 102007	3	3
33	ZnO nanoparticle growth on single-walled carbon nanotubes by atomic layer deposition and a consequent lifetime elongation of nanotube field emission. <i>Applied Physics Letters</i> , 2007 , 90, 263104	3.4	46

32	Thin film transistors of single-walled carbon nanotubes grown directly on glass substrates. <i>Nanotechnology</i> , 2007 , 18, 495203	3-4	12
31	Growth and characterization of nitrogen-doped single-walled carbon nanotubes by water-plasma chemical vapour deposition. <i>Nanotechnology</i> , 2007 , 18, 285601	3-4	22
30	Formation of polybromine anions and concurrent heavy hole doping in carbon nanotubes. <i>Applied Physics Letters</i> , 2007 , 90, 093502	3-4	17
29	Single-walled carbon nanotube growth on glass. <i>Nanotechnology</i> , 2007 , 18, 015601	3-4	11
28	Direct photolithographic route to selective growth of single-walled carbon nanotubes using a modified photoresist with ferrocene. <i>Nanotechnology</i> , 2006 , 17, 116-123	3-4	13
27	Preferential etching of metallic single-walled carbon nanotubes with small diameter by fluorine gas. <i>Physical Review B</i> , 2006 , 73,	3-3	65
26	Direct growth of single-walled carbon nanotubes on conducting ZnO films and its field emission properties. <i>Applied Physics Letters</i> , 2006 , 89, 113116	3-4	29
25	Fabrication of suspended single-walled carbon nanotubes via a direct lithographic route. <i>Journal of Materials Chemistry</i> , 2006 , 16, 174-178		8
24	Fabrication and characterization of suspended single-walled carbon nanotubes. <i>Solid State Communications</i> , 2006 , 139, 186-190	1.6	5
23	Sulfidative purification of carbon nanotubes integrated in transistors. <i>Journal of the American Chemical Society</i> , 2005 , 127, 8300-1	16.4	10
22	Low-Temperature Growth of Single-Walled Carbon Nanotubes by Plasma Enhanced Chemical Vapor Deposition. <i>Chemistry of Materials</i> , 2005 , 17, 5141-5145	9.6	65
21	Low-temperature growth of single-walled carbon nanotubes by water plasma chemical vapor deposition. <i>Journal of the American Chemical Society</i> , 2005 , 127, 12498-9	16.4	69
20	Metallization of the semiconducting carbon nanotube by encapsulated bromine molecules. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2005 , 29, 693-697	3	14
19	Influence of freelay in magnetic tunnel junction on switching of submicrometer magnetoresistive random access memory arrays. <i>IEEE Transactions on Magnetics</i> , 2005 , 41, 883-886	2	2
18	Improved selectivity of synthetic anti-ferromagnetic free Layer in high-density MRAM array. <i>IEEE Transactions on Magnetics</i> , 2005 , 41, 2673-2675	2	
17	Switching characteristics of magnetic tunnel junctions with a synthetic antiferromagnetic free layer. <i>IEEE Transactions on Magnetics</i> , 2005 , 41, 2688-2690	2	
16	Vertically aligned carbon-nanotube arrays showing Schottky behavior at room temperature. <i>Small</i> , 2005 , 1, 553-9	11	18
15	Atomic Layer Deposition of Bi _{1-x} Ti _x Si _y O _z Thin Films from Alkoxide Precursors and Water. <i>Journal of the Electrochemical Society</i> , 2005 , 152, F124	3-9	4

14	Magnetization switching and tunneling magnetoresistance effects of synthetic antiferromagnet free layers consisting of amorphous NiFeSiB. <i>Applied Physics Letters</i> , 2005 , 87, 082508	3-4	13
13	Adsorption-induced conversion of the carbon nanotube field effect transistor from ambipolar to unipolar behavior. <i>Applied Physics Letters</i> , 2005 , 86, 093105	3-4	37
12	Oxygen-induced p-type doping of a long individual single-walled carbon nanotube. <i>Nanotechnology</i> , 2005 , 16, 1048-1052	3-4	100
11	Anomalous switching in submicrometer magnetic tunnel junction arrays arising from magnetic vortex and domain wall pinning. <i>Journal of Applied Physics</i> , 2004 , 96, 1748-1750	2-5	15
10	Ambient air effects on electrical characteristics of GaP nanowire transistors. <i>Journal of Applied Physics</i> , 2004 , 96, 7574-7577	2-5	18
9	Magnetic tunnel junctions with low Ms free layers. <i>Physica Status Solidi A</i> , 2004 , 201, 1640-1643		3
8	Current aspects and future perspectives of high-density MRAM. <i>Physica Status Solidi A</i> , 2004 , 201, 1617-1620		3
7	Remanence analysis of sub-micron MTJ cell with CoFe/NiFe free layer. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004 , 1, 3538-3541		
6	Time-to-breakdown characteristics of magnetic tunnel junctions. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004 , 1, 3542-3545		
5	Technological issues for high-density MRAM development. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 282, 232-236	2-8	13
4	A sonochemical route to single-walled carbon nanotubes under ambient conditions. <i>Journal of the American Chemical Society</i> , 2004 , 126, 15982-3	16-4	78
3	Aligned carbon nanotubes for nanoelectronics. <i>Nanotechnology</i> , 2004 , 15, S512-S516	3-4	102
2	. <i>IEEE Transactions on Magnetics</i> , 2003 , 39, 2842-2844	2	13
1	Measurement of resistance and spin-memory loss (spin relaxation) at interfaces using sputtered current perpendicular-to-plane exchange-biased spin valves. <i>Physical Review B</i> , 2000 , 62, 1178-1185	3-3	89