Wanjun Park

List of Publications by Citations

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	Sonochemical Preparation of Shape-Selective ZnO Nanostructures. *Crystal Growth and Design*, **2008**, 8, 265-269	3.5	201
84	All-graphene strain sensor on soft substrate. *Carbon*, **2017**, 116, 753-759	10.4	111
83	Aligned carbon nanotubes for nanoelectronics. *Nanotechnology*, **2004**, 15, S512-S516	3.4	102
82	Oxygen-induced p-type doping of a long individual single-walled carbon nanotube. *Nanotechnology*, **2005**, 16, 1048-1052	3.4	100
81	Measurement of resistance and spin-memory loss (spin relaxation) at interfaces using sputtered current perpendicular-to-plane exchange-biased spin valves. *Physical Review B*, **2000**, 62, 1178-1185	3.3	89
80	A sonochemical route to single-walled carbon nanotubes under ambient conditions. *Journal of the American Chemical Society*, **2004**, 126, 15982-3	16.4	78
79	A tactile sensor using a conductive graphene-sponge composite. *Nanoscale*, **2016**, 8, 9185-92	7.7	76
78	Low-temperature growth of single-walled carbon nanotubes by water plasma chemical vapor deposition. *Journal of the American Chemical Society*, **2005**, 127, 12498-9	16.4	69
77	Preferential etching of metallic single-walled carbon nanotubes with small diameter by fluorine gas. *Physical Review B*, **2006**, 73,	3.3	65
76	Low-Temperature Growth of Single-Walled Carbon Nanotubes by Plasma Enhanced Chemical Vapor Deposition. *Chemistry of Materials*, **2005**, 17, 5141-5145	9.6	65
75	A highly sensitive pressure sensor using a double-layered graphene structure for tactile sensing. *Nanoscale*, **2015**, 7, 11652-9	7.7	63
74	A graphene force sensor with pressure-amplifying structure. *Carbon*, **2014**, 78, 601-608	10.4	53
73	ZnO nanoparticle growth on single-walled carbon nanotubes by atomic layer deposition and a consequent lifetime elongation of nanotube field emission. *Applied Physics Letters*, **2007**, 90, 263104	3.4	46
72	Adsorption-induced conversion of the carbon nanotube field effect transistor from ambipolar to unipolar behavior. *Applied Physics Letters*, **2005**, 86, 093105	3.4	37
71	A tactile sensor using a graphene film formed by the reduced graphene oxide flakes and its detection of surface morphology. *Carbon*, **2015**, 94, 982-987	10.4	36
70	A flexible graphene touch sensor in the general human touch range. *Applied Physics Letters*, **2014**, 105, 041907	3.4	36
69	Unusual transport characteristics of nitrogen-doped single-walled carbon nanotubes. *Applied Physics Letters*, **2008**, 93, 043113	3.4	35

68	An artificial neural tactile sensing system. *Nature Electronics*, **2021**, 4, 429-438	28.4	34
67	High-Output and Bending-Tolerant Triboelectric Nanogenerator Based on an Interlocked Array of Surface-Functionalized Indium Tin Oxide Nanohelixes. *ACS Energy Letters*, **2019**, 4, 1748-1754	20.1	30
66	Direct growth of single-walled carbon nanotubes on conducting ZnO films and its field emission properties. *Applied Physics Letters*, **2006**, 89, 113116	3.4	29
65	A tactile sensor using single layer graphene for surface texture recognition. *Nanoscale*, **2017**, 9, 10248-10255	7.7	27
64	A Highly Sensitive Force Sensor with Fast Response Based on Interlocked Arrays of Indium Tin Oxide Nanosprings toward Human Tactile Perception. *Advanced Functional Materials*, **2018**, 28, 1804132	15.6	26
63	Thin film transistors using preferentially grown semiconducting single-walled carbon nanotube networks by water-assisted plasma-enhanced chemical vapor deposition. *Nanotechnology*, **2009**, 20, 295201	3.4	23
62	Growth and characterization of nitrogen-doped single-walled carbon nanotubes by water-plasma chemical vapour deposition. *Nanotechnology*, **2007**, 18, 285601	3.4	22
61	Ambient air effects on electrical characteristics of GaP nanowire transistors. *Journal of Applied Physics*, **2004**, 96, 7574-7577	2.5	18
60	Vertically aligned carbon-nanotube arrays showing Schottky behavior at room temperature. *Small*, **2005**, 1, 553-9	11	18
59	Formation of polybromine anions and concurrent heavy hole doping in carbon nanotubes. *Applied Physics Letters*, **2007**, 90, 093502	3.4	17
58	The universal magnetic tunnel junction logic gates representing 16 binary Boolean logic operations. *Journal of Applied Physics*, **2015**, 117, 17D717	2.5	15
57	Effects of defects and non-coordinating molecular overlayers on the work function of graphene and energy-level alignment with organic molecules. *Carbon*, **2012**, 50, 851-856	10.4	15
56	Anomalous switching in submicrometer magnetic tunnel junction arrays arising from magnetic vortex and domain wall pinning. *Journal of Applied Physics*, **2004**, 96, 1748-1750	2.5	15
55	Recognition, classification, and prediction of the tactile sense. *Nanoscale*, **2018**, 10, 10545-10553	7.7	14
54	Metallization of the semiconducting carbon nanotube by encapsulated bromine molecules. *Physica E: Low-Dimensional Systems and Nanostructures*, **2005**, 29, 693-697	3	14
53	Neural coding using telegraphic switching of magnetic tunnel junction. *Journal of Applied Physics*, **2015**, 117, 17D714	2.5	13
52	Direct photolithographic route to selective growth of single-walled carbon nanotubes using a modified photoresist with ferrocene. *Nanotechnology*, **2006**, 17, 116-123	3.4	13
51	. *IEEE Transactions on Magnetics*, **2003**, 39, 2842-2844	2	13

50	Technological issues for high-density MRAM development. *Journal of Magnetism and Magnetic Materials*, **2004**, 282, 232-236	2.8	13
49	Magnetization switching and tunneling magnetoresistance effects of synthetic antiferromagnet free layers consisting of amorphous NiFeSiB. *Applied Physics Letters*, **2005**, 87, 082508	3.4	13
48	A Single Magnetic Tunnel Junction Representing the Basic Logic Functions NAND, NOR, and IMP. *IEEE Electron Device Letters*, **2015**, 36, 402-404	4.4	12
47	Noise characteristics of single-walled carbon nanotube network transistors. *Nanotechnology*, **2008**, 19, 285705	3.4	12
46	Thin film transistors of single-walled carbon nanotubes grown directly on glass substrates. *Nanotechnology*, **2007**, 18, 495203	3.4	12
45	Reduction of hole doping of chemical vapor deposition grown graphene by photoresist selection and thermal treatment. *Nanotechnology*, **2016**, 27, 505205	3.4	12
44	Single-walled carbon nanotube growth on glass. *Nanotechnology*, **2007**, 18, 015601	3.4	11
43	Ecoflex-Passivated Graphene-Yarn Composite for a Highly Conductive and Stretchable Strain Sensor. *Journal of Nanoscience and Nanotechnology*, **2019**, 19, 6690-6695	1.3	10
42	Sulfidative purification of carbon nanotubes integrated in transistors. *Journal of the American Chemical Society*, **2005**, 127, 8300-1	16.4	10
41	Fabrication of suspended single-walled carbon nanotubes via a direct lithographic route. *Journal of Materials Chemistry*, **2006**, 16, 174-178		8
40	Uniform pressure responses for nanomaterials-based biological on-skin flexible pressure sensor array. *Carbon*, **2021**, 181, 169-176	10.4	8
39	An Associative Memory Device Using a Magnetic Tunnel Junction. *IEEE Transactions on Magnetics*, **2015**, 51, 1-4	2	7
38	Touch stimulated pulse generation in biomimetic single-layer graphene. *Nanoscale*, **2016**, 8, 3425-31	7.7	6
37	Enhancement of integrity of graphene transferred by interface energy modulation. *Carbon*, **2013**, 65, 165-174	10.4	6
36	Charge conversion effects of carbon nanotube network transistors by temperature for Al2O3 gate dielectric formation. *Applied Physics Letters*, **2010**, 97, 032117	3.4	6
35	Electrical Properties of Silicon Nanowire Fabricated by Patterning and Oxidation Process. *IEEE Nanotechnology Magazine*, **2012**, 11, 565-569	2.6	5
34	Effect of charge-transfer complex on the energy level alignment between graphene and organic molecules. *Applied Physics Letters*, **2012**, 100, 183102	3.4	5
33	Fabrication and characterization of suspended single-walled carbon nanotubes. *Solid State Communications*, **2006**, 139, 186-190	1.6	5

32	A Flexible Graphene-Polydimethylsiloxane Nanocomposite Force Sensor with Linear Response Across a Wide Pressure Detection Range. *Journal of Nanoscience and Nanotechnology*, **2019**, 19, 1630-1634	1.2	5
31	High-Density Physical Random Number Generator Using Spin Signals in Multidomain Ferromagnetic Layer. *Advances in Condensed Matter Physics*, **2015**, 2015, 1-8	1	4
30	Transport properties of field effect transistors with randomly networked single walled carbon nanotubes grown by plasma enhanced chemical vapour deposition. *Journal Physics D: Applied Physics*, **2009**, 42, 175106	3	4
29	Atomic Layer Deposition of Bi[sub 1⊠y]Ti[sub x]Si[sub y]O[sub z] Thin Films from Alkoxide Precursors and Water. *Journal of the Electrochemical Society*, **2005**, 152, F124	3.9	4
28	Fabrication of a Flexible Graphene Pressure Sensor. *Journal of Nanoscience and Nanotechnology*, **2015**, 15, 9020-4	1.3	3
27	Electrical responses by effects of molecular adsorption on channel and junctions of carbon nanotube field effect transistors. *Journal Physics D: Applied Physics*, **2008**, 41, 102007	3	3
26	Magnetic tunnel junctions with low Ms free layers. *Physica Status Solidi A*, **2004**, 201, 1640-1643		3
25	Current aspects and future perspectives of high-density MRAM. *Physica Status Solidi A*, **2004**, 201, 1617-1620		3
24	A Highly Efficient Absorbent for Various Organic Solvents Using Hydrophobic Graphene-Sponge Composite. *Journal of Nanoscience and Nanotechnology*, **2019**, 19, 6675-6681	1.3	2
23	A Hierarchical 3D Graphene Nanocomposite Foam for Extremely Tough, Non-Wettable, and Elastic Conductor. *Advanced Materials Interfaces*, **2020**, 7, 2000354	4.6	2
22	Perpendicular Magnetization of Ta/Ru/Ta/Co/Fe/MgO Multilayer. *IEEE Transactions on Magnetics*, **2015**, 51, 1-4	2	2
21	The roles of wetting liquid in the transfer process of single layer graphene onto arbitrary substrates. *Journal of Nanoscience and Nanotechnology*, **2013**, 13, 7396-400	1.3	2
20	Influence of freelayer in magnetic tunnel junction on switching of submicrometer magnetoresistive random access memory arrays. *IEEE Transactions on Magnetics*, **2005**, 41, 883-886	2	2
19	Gate dielectric effects on subthreshold transport of carbon nanotube network transistors grown by plasma-enhanced chemical vapor deposition. *Journal of the Korean Physical Society*, **2010**, 56, 598-601	0.6	2
18	Construction of a Bit Stream Using Telegraphic Switching of a Two-Input Magnetic Tunnel Junction. *IEEE Transactions on Magnetics*, **2017**, 53, 1-4	2	1
17	Reconfigurable Logic Gates with in-Plane Magnetic Tunnel Junctions Representing Full Boolean Functions. *Physica Status Solidi (A) Applications and Materials Science*, **2019**, 216, 1800959	1.6	1
16	Reconfigurable logic for carry-out computing in 1-bit full adder using a single magnetic tunnel junction. *Solid-State Electronics*, **2019**, 154, 16-19	1.7	1
15	Enhancing the quality of transferred single-layer graphene with poly(4-vinylphenol) interlayer on flexible substrates. *Japanese Journal of Applied Physics*, **2016**, 55, 060305	1.4	1

14	Formation of Intercalation Path for Oxygen Through Imperfections in Graphene on Metal Substrate: A Density Functional Theory Study. *Journal of Nanoscience and Nanotechnology*, **2016**, 16, 11992-11996	1.3	1
13	A Stretchable Graphene Thin-Film Sensor for Detecting All of Lateral and Vertical Strains. *Journal of Nanoscience and Nanotechnology*, **2019**, 19, 1585-1591	1.3	1
12	Effect of the metal work function on the electrical properties of carbon nanotube network transistors. *Journal of the Korean Physical Society*, **2012**, 60, 1680-1684	0.6	
11	Perpendicular magnetization of CoZr/Pt multilayers. *Journal of the Korean Physical Society*, **2012**, 60, 1690-1694	0.6	
10	Perpendicular Magnetic Anisotropy for CoFeBZr/MgO. *IEEE Transactions on Magnetics*, **2015**, 51, 1-4	2	
9	Improvement in the IV characteristics of carbon nanotube network transistors using microwave treatment. *Journal of the Korean Physical Society*, **2012**, 61, 1587-1591	0.6	
8	Current-driven switching property of MgO-based magnetic tunnel junctions with a CoFeB free layer with in-plane magnetization. *Journal of the Korean Physical Society*, **2012**, 61, 1596-1599	0.6	
7	Post annealing effect on the electrical properties of top-gate SWNT network transistors. *Journal of Nanoscience and Nanotechnology*, **2011**, 11, 5955-8	1.3	
6	The geometrical effect of single walled carbon nanotube network transistors on low frequency noise characteristics. *Journal of Nanoscience and Nanotechnology*, **2011**, 11, 6080-3	1.3	
5	Remanence analysis of sub-micron MTJ cell with CoFe/NiFe free layer. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2004**, 1, 3538-3541		
4	Time-to-breakdown characteristics of magnetic tunnel junctions. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2004**, 1, 3542-3545		
3	Improved selectivity of synthetic anti-ferromagnetic free Layer in high-density MRAM array. *IEEE Transactions on Magnetics*, **2005**, 41, 2673-2675	2	
2	Switching characteristics of magnetic tunnel junctions with a synthetic antiferromagnetic free layer. *IEEE Transactions on Magnetics*, **2005**, 41, 2688-2690	2	
1	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). *Advanced Functional Materials*, **2018**, 28, 1870304	15.6	