

Keun-Soo Kim

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.

67

papers

12,064

citations

27

h-index

68

g-index

68

ext. papers

12,994

ext. citations

7.6

avg, IF

5.62

L-index

#	Paper	IF	Citations
67	Water Adsorption Behavior on a Highly Dense Single-Walled Carbon Nanotube Film with an Enhanced Interstitial Space. <i>ACS Omega</i> , 2021 , 6, 7015-7022	3.9	0
66	Fabrication of Carbon Nanomaterials Using Laser Scribing on Copper Nanoparticles-Embedded Polyacrylonitrile Films and Their Application in a Gas Sensor. <i>Polymers</i> , 2021 , 13,	4.5	1
65	Direct Pattern Growth of Carbon Nanomaterials by Laser Scribing on Spin-Coated Cu-PI Composite Films and Their Gas Sensor Application. <i>Materials</i> , 2021 , 14,	3.5	1
64	Rapid chemical vapor deposition of graphene using methanol as a precursor. <i>Carbon Letters</i> , 2021 , 31, 307-313	2.3	3
63	Sulfur-doped carbon nanotubes as a conducting agent in supercapacitor electrodes. <i>Journal of Alloys and Compounds</i> , 2021 , 855, 157282	5.7	13
62	Extrinsic Surface Magnetic Anisotropy Contribution in Pt/YFeO Interface in Longitudinal Spin Seebeck Effect by Graphene Interlayer. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 45097-45104	9.5	1
61	Abnormal Grain Growth for Single-Crystal Cu Substrate and Chemical Vapor Deposition of Graphene on It. <i>Journal of the Korean Physical Society</i> , 2020 , 76, 923-927	0.6	5
60	Enhanced Thermoelectric Properties of WS ₂ /Single-Walled Carbon Nanohorn Nanocomposites. <i>Crystals</i> , 2020 , 10, 140	2.3	3
59	Large-scale MoS ₂ thin films with a chemically formed holey structure for enhanced Seebeck thermopower and their anisotropic properties. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 8669-8677	13	5
58	van der Waals gap-inserted light-emitting p-n heterojunction of ZnO nanorods/graphene/p-GaN film. <i>Current Applied Physics</i> , 2020 , 20, 352-357	2.6	3
57	Data for direct chemical deposition of PbS on chemical vapor deposition grown-graphene for high performance photovoltaic infrared photo-detectors. <i>Data in Brief</i> , 2020 , 32, 106273	1.2	0
56	Direct chemical synthesis of PbS on large-area CVD-graphene for high-performance photovoltaic infrared photo-detectors. <i>Materials Letters</i> , 2020 , 277, 128323	3.3	4
55	Visualization of CVD-grown graphene on Cu film using area-selective ALD for quality management. <i>Applied Surface Science</i> , 2019 , 496, 143614	6.7	2
54	Single GaAs Nanowire/Graphene Hybrid Devices Fabricated by a Position-Controlled Microtransfer and an Imprinting Technique for an Embedded Structure. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 13514-13522	9.5	4
53	High-performance monolayer MoS ₂ field-effect transistor with large-scale nitrogen-doped graphene electrodes for Ohmic contact. <i>Applied Physics Letters</i> , 2019 , 115, 012104	3.4	14
52	Effective Heat Transfer Pathways of Thermally Conductive Networks Formed by One-Dimensional Carbon Materials with Different Sizes. <i>Polymers</i> , 2019 , 11,	4.5	6
51	Pattern Synthesis of Designed Graphene by using a LASER Scribing Process. <i>New Physics: Sae Mulli</i> , 2019 , 69, 590-595	1.7	2

50	Rapid synthesis of graphene by chemical vapor deposition using liquefied petroleum gas as precursor. <i>Carbon</i> , 2019 , 145, 462-469	10.4	21
49	Growth of free-standing SnO nanostructures on single layer graphene. <i>Materials Letters</i> , 2019 , 236, 324-328	3.3	3
48	Ultrastrong Graphene-Copper Core-Shell Wires for High-Performance Electrical Cables. <i>ACS Nano</i> , 2018 , 12, 2803-2808	16.7	36
47	Reliable seawater battery anode: controlled sodium nucleation via deactivation of the current collector surface. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 19672-19680	13	23
46	Chemical vapor deposition of graphene on platinum: Growth and substrate interaction. <i>Carbon</i> , 2017 , 111, 733-740	10.4	35
45	Strong hole-doping and robust resistance-decrease in proton-irradiated graphene. <i>Scientific Reports</i> , 2016 , 6, 21311	4.9	7
44	Ultrafast Heating for Intrinsic Properties of Atomically Thin Two-Dimensional Materials on Plastic Substrates. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 31222-31230	9.5	5
43	Long-term stability study of graphene-passivated black phosphorus under air exposure. <i>Current Applied Physics</i> , 2016 , 16, 165-169	2.6	66
42	Effect of graphene oxide ratio on the cell adhesion and growth behavior on a graphene oxide-coated silicon substrate. <i>Scientific Reports</i> , 2016 , 6, 33835	4.9	34
41	Infrared study of large scale h-BN film and graphene/h-BN heterostructure. <i>Applied Physics Letters</i> , 2016 , 108, 241910	3.4	2
40	Interaction driven quantum Hall effect in artificially stacked graphene bilayers. <i>Scientific Reports</i> , 2016 , 6, 24815	4.9	1
39	Temperature-dependent resonance energy transfer from semiconductor quantum wells to graphene. <i>Nano Letters</i> , 2015 , 15, 896-902	11.5	11
38	Electrical transport measurements and degradation of graphene/n-Si schottky junction diodes. <i>Journal of the Korean Physical Society</i> , 2015 , 66, 22-26	0.6	4
37	Stable and reversible doping of graphene by using KNO ₃ solution and photo-desorption current response. <i>RSC Advances</i> , 2015 , 5, 50040-50046	3.7	15
36	Dopant segregation in polycrystalline monolayer graphene. <i>Nano Letters</i> , 2015 , 15, 1428-36	11.5	16
35	Controlled n-doping in chemical vapour deposition grown graphene by antimony. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 015307	3	6
34	Controlling the Properties of Graphene using CVD Method: Pristine and N-doped Graphene. <i>KEPCO Journal on Electric Power and Energy</i> , 2015 , 1, 169-174		2
33	Effect of cooling condition on chemical vapor deposition synthesis of graphene on copper catalyst. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 19574-8	9.5	28

32	Modification of Schottky barrier properties of Au/n-type Ge Schottky barrier diode using monolayer graphene interlayer. <i>Journal of Alloys and Compounds</i> , 2014 , 614, 323-329	5.7	35
31	Effect of annealing of graphene layer on electrical transport and degradation of Au/graphene/n-type silicon Schottky diodes. <i>Journal of Alloys and Compounds</i> , 2014 , 612, 265-272	5.7	12
30	Self-organizing properties of triethylsilylethynyl-anthradithiophene on monolayer graphene electrodes in solution-processed transistors. <i>Nanoscale</i> , 2013 , 5, 11094-101	7.7	24
29	Enhanced optical response of hybridized VO ₂ /graphene films. <i>Nanoscale</i> , 2013 , 5, 2632-6	7.7	29
28	Flexible thermochromic window based on hybridized VO ₂ /graphene. <i>ACS Nano</i> , 2013 , 7, 5769-76	16.7	123
27	Structural and Optical Characterizations of VO ₂ Film on Graphene/Sapphire Substrate by Post-annealing after Sputtering. <i>Applied Science and Convergence Technology</i> , 2013 , 22, 98-104	0.8	
26	Effect of uni-axial strain on THz/far-infrared response of graphene. <i>Applied Physics Letters</i> , 2012 , 100, 041910	3.4	7
25	Stress-induced domain dynamics and phase transitions in epitaxially grown VO ₂ nanowires. <i>Nanotechnology</i> , 2012 , 23, 205707	3.4	27
24	Large physisorption strain in chemical vapor deposition of graphene on copper substrates. <i>Nano Letters</i> , 2012 , 12, 2408-13	11.5	107
23	Connecting dopant bond type with electronic structure in N-doped graphene. <i>Nano Letters</i> , 2012 , 12, 4025-31	11.5	381
22	Infrared conductivity and carrier mobility of large scale graphene on various substrates. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 5816-9	1.3	1
21	Optical response of large scale single layer graphene. <i>Applied Physics Letters</i> , 2011 , 98, 071905	3.4	74
20	Flow-dependent directional growth of carbon nanotube forests by chemical vapor deposition. <i>Nanotechnology</i> , 2011 , 22, 095303	3.4	7
19	Far-infrared study of substrate-effect on large scale graphene. <i>Applied Physics Letters</i> , 2011 , 98, 201907	3.4	54
18	Visualizing individual nitrogen dopants in monolayer graphene. <i>Science</i> , 2011 , 333, 999-1003	33.3	697
17	Single-layer graphene cathodes for organic photovoltaics. <i>Applied Physics Letters</i> , 2011 , 98, 123303	3.4	53
16	High-performance graphene-based transparent flexible heaters. <i>Nano Letters</i> , 2011 , 11, 5154-8	11.5	396
15	Inking elastomeric stamps with micro-patterned, single layer graphene to create high-performance OFETs. <i>Advanced Materials</i> , 2011 , 23, 3531-5	24	87

14	Multilayer graphene films grown by molecular beam deposition. <i>Solid State Communications</i> , 2010 , 150, 809-811	1.6	30
13	Large-scale pattern growth of graphene films for stretchable transparent electrodes. <i>Nature</i> , 2009 , 457, 706-10	50.4	8675
12	Near-field focusing and magnification through self-assembled nanoscale spherical lenses. <i>Nature</i> , 2009 , 460, 498-501	50.4	290
11	Electrochemical nanoneedle biosensor based on multiwall carbon nanotube. <i>Analytical Chemistry</i> , 2006 , 78, 617-20	7.8	102
10	Controlled assembly of single SWNTs bundle using dielectrophoresis. <i>Microelectronic Engineering</i> , 2005 , 81, 83-89	2.5	72
9	Nanomanipulator-assisted fabrication and characterization of carbon nanotubes inside scanning electron microscope. <i>Micron</i> , 2005 , 36, 471-6	2.3	27
8	Extracting independently the work function and field enhancement factor from thermal-field emission of multi-walled carbon nanotube tips. <i>Carbon</i> , 2005 , 43, 2801-2807	10.4	40
7	Multiwalled carbon nanotube bridges and junctions using nanomanipulators. <i>Journal of Nanoscience and Nanotechnology</i> , 2005 , 5, 895-8	1.3	
6	Band gap engineering of a carbon nanotube by hydrogen functionalization. <i>Current Applied Physics</i> , 2004 , 4, 559-562	2.6	8
5	Edge effect on the field emission properties from vertically aligned carbon nanotube arrays. <i>Carbon</i> , 2004 , 42, 3036-3039	10.4	26
4	In situ manipulation and characterizations using nanomanipulators inside a field emission-scanning electron microscope. <i>Review of Scientific Instruments</i> , 2003 , 74, 4021-4025	1.7	30
3	Low pressure synthesis of single-walled carbon nanotubes by arc discharge. <i>Synthetic Metals</i> , 2002 , 126, 245-251	3.6	66
2	High yield purification of multiwalled carbon nanotubes by selective oxidation during thermal annealing. <i>Carbon</i> , 2001 , 39, 655-661	10.4	151
1	Transport phenomena in an anisotropically aligned single-wall carbon nanotube film. <i>Physical Review B</i> , 2001 , 64,	3.3	51