

Keun-Soo Kim

List of Publications by Year in descending order

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68
papers

13,642
citations

185998

28
h-index

106150

65
g-index

68
all docs

68
docs citations

68
times ranked

20336
citing authors

#	ARTICLE	IF	CITATIONS
1	Large-scale pattern growth of graphene films for stretchable transparent electrodes. <i>Nature</i> , 2009, 457, 706-710.	13.7	9,624
2	Visualizing Individual Nitrogen Dopants in Monolayer Graphene. <i>Science</i> , 2011, 333, 999-1003.	6.0	774
3	Connecting Dopant Bond Type with Electronic Structure in N-Doped Graphene. <i>Nano Letters</i> , 2012, 12, 4025-4031.	4.5	471
4	High-Performance Graphene-Based Transparent Flexible Heaters. <i>Nano Letters</i> , 2011, 11, 5154-5158.	4.5	457
5	Near-field focusing and magnification through self-assembled nanoscale spherical lenses. <i>Nature</i> , 2009, 460, 498-501.	13.7	338
6	High yield purification of multiwalled carbon nanotubes by selective oxidation during thermal annealing. <i>Carbon</i> , 2001, 39, 655-661.	5.4	167
7	Flexible Thermochromic Window Based on Hybridized VO ₂ /Graphene. <i>ACS Nano</i> , 2013, 7, 5769-5776.	7.3	154
8	Large Physisorption Strain in Chemical Vapor Deposition of Graphene on Copper Substrates. <i>Nano Letters</i> , 2012, 12, 2408-2413.	4.5	122
9	Electrochemical Nanoneedle Biosensor Based on Multiwall Carbon Nanotube. <i>Analytical Chemistry</i> , 2006, 78, 617-620.	3.2	105
10	Inking Elastomeric Stamps with Micro-Patterned, Single Layer Graphene to Create High-Performance OFETs. <i>Advanced Materials</i> , 2011, 23, 3531-3535.	11.1	100
11	Controlled assembly of single SWNTs bundle using dielectrophoresis. <i>Microelectronic Engineering</i> , 2005, 81, 83-89.	1.1	94
12	Optical response of large scale single layer graphene. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	87
13	Long-term stability study of graphene-passivated black phosphorus under air exposure. <i>Current Applied Physics</i> , 2016, 16, 165-169.	1.1	77
14	Low pressure synthesis of single-walled carbon nanotubes by arc discharge. <i>Synthetic Metals</i> , 2002, 126, 245-251.	2.1	70
15	Single-layer graphene cathodes for organic photovoltaics. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	60
16	Far-infrared study of substrate-effect on large scale graphene. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	58
17	Transport phenomena in an anisotropically aligned single-wall carbon nanotube film. <i>Physical Review B</i> , 2001, 64, .	1.1	54
18	Ultrastrong Graphene-Copper Core-Shell Wires for High-Performance Electrical Cables. <i>ACS Nano</i> , 2018, 12, 2803-2808.	7.3	52

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19	Chemical vapor deposition of graphene on platinum: Growth and substrate interaction. Carbon, 2017, 111, 733-740.	5.4	49
20	Extracting independently the work function and field enhancement factor from thermal-field emission of multi-walled carbon nanotube tips. Carbon, 2005, 43, 2801-2807.	5.4	47
21	Effect of graphene oxide ratio on the cell adhesion and growth behavior on a graphene oxide-coated silicon substrate. Scientific Reports, 2016, 6, 33835.	1.6	46
22	Sulfur-doped carbon nanotubes as a conducting agent in supercapacitor electrodes. Journal of Alloys and Compounds, 2021, 855, 157282.	2.8	46
23	Modification of Schottky barrier properties of Au/n-type Ge Schottky barrier diode using monolayer graphene interlayer. Journal of Alloys and Compounds, 2014, 614, 323-329.	2.8	45
24	Enhanced optical response of hybridized VO ₂ /graphene films. Nanoscale, 2013, 5, 2632.	2.8	36
25	Multilayer graphene films grown by molecular beam deposition. Solid State Communications, 2010, 150, 809-811.	0.9	35
26	In situ manipulation and characterizations using nanomanipulators inside a field emission-scanning electron microscope. Review of Scientific Instruments, 2003, 74, 4021-4025.	0.6	34
27	Stress-induced domain dynamics and phase transitions in epitaxially grown VO ₂ nanowires. Nanotechnology, 2012, 23, 205707.	1.3	32
28	Effect of Cooling Condition on Chemical Vapor Deposition Synthesis of Graphene on Copper Catalyst. ACS Applied Materials & Interfaces, 2014, 6, 19574-19578.	4.0	31
29	Reliable seawater battery anode: controlled sodium nucleation via deactivation of the current collector surface. Journal of Materials Chemistry A, 2018, 6, 19672-19680.	5.2	30
30	Edge effect on the field emission properties from vertically aligned carbon nanotube arrays. Carbon, 2004, 42, 3036-3039.	5.4	28
31	Nanomanipulator-assisted fabrication and characterization of carbon nanotubes inside scanning electron microscope. Micron, 2005, 36, 471-476.	1.1	28
32	High-performance monolayer MoS ₂ field-effect transistor with large-scale nitrogen-doped graphene electrodes for Ohmic contact. Applied Physics Letters, 2019, 115, .	1.5	27
33	Self-organizing properties of triethylsilylethynyl-anthradithiophene on monolayer graphene electrodes in solution-processed transistors. Nanoscale, 2013, 5, 11094.	2.8	24
34	Rapid synthesis of graphene by chemical vapor deposition using liquefied petroleum gas as precursor. Carbon, 2019, 145, 462-469.	5.4	23
35	Dopant Segregation in Polycrystalline Monolayer Graphene. Nano Letters, 2015, 15, 1428-1436.	4.5	19
36	Stable and reversible doping of graphene by using KNO ₃ solution and photo-desorption current response. RSC Advances, 2015, 5, 50040-50046.	1.7	18

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37	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.	2.8	13
38	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.	5.2	13
39	Temperature-Dependent Resonance Energy Transfer from Semiconductor Quantum Wells to Graphene. <i>Nano Letters</i> , 2015, 15, 896-902.	4.5	12
40	Effective Heat Transfer Pathways of Thermally Conductive Networks Formed by One-Dimensional Carbon Materials with Different Sizes. <i>Polymers</i> , 2019, 11, 1661.	2.0	11
41	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.	0.3	10
42	Enhanced Thermoelectric Properties of WS ₂ /Single-Walled Carbon Nanohorn Nanocomposites. <i>Crystals</i> , 2020, 10, 140.	1.0	10
43	Band gap engineering of a carbon nanotube by hydrogen functionalization. <i>Current Applied Physics</i> , 2004, 4, 559-562.	1.1	9
44	Flow-dependent directional growth of carbon nanotube forests by chemical vapor deposition. <i>Nanotechnology</i> , 2011, 22, 095303.	1.3	8
45	Effect of uni-axial strain on THz/far-infrared response of graphene. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	8
46	Strong hole-doping and robust resistance-decrease in proton-irradiated graphene. <i>Scientific Reports</i> , 2016, 6, 21311.	1.6	7
47	Ultrafast Heating for Intrinsic Properties of Atomically Thin Two-Dimensional Materials on Plastic Substrates. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 31222-31230.	4.0	7
48	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.	4.0	7
49	Direct chemical synthesis of PbS on large-area CVD-graphene for high-performance photovoltaic infrared photo-detectors. <i>Materials Letters</i> , 2020, 277, 128323.	1.3	7
50	Controlled n-doping in chemical vapour deposition grown graphene by antimony. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 015307.	1.3	6
51	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.	1.1	6
52	Rapid chemical vapor deposition of graphene using methanol as a precursor. <i>Carbon Letters</i> , 2021, 31, 307-313.	3.3	6
53	Visualization of CVD-grown graphene on Cu film using area-selective ALD for quality management. <i>Applied Surface Science</i> , 2019, 496, 143614.	3.1	5
54	Electrical transport measurements and degradation of graphene/n-Si schottky junction diodes. <i>Journal of the Korean Physical Society</i> , 2015, 66, 22-26.	0.3	4

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55	Growth of free-standing SnO nanostructures on single layer graphene. <i>Materials Letters</i> , 2019, 236, 324-328.	1.3	4
56	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, 3388.	1.3	4
57	Extrinsic Surface Magnetic Anisotropy Contribution in Pt/Y ₃ Fe ₅ O ₁₂ Interface in Longitudinal Spin Seebeck Effect by Graphene Interlayer. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 45097-45104.	4.0	4
58	Infrared study of large scale h-BN film and graphene/h-BN heterostructure. <i>Applied Physics Letters</i> , 2016, 108, 241910.	1.5	3
59	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.	1.6	3
60	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.	0.1	3
61	Pattern Synthesis of Designed Graphene by using a LASER Scribing Process. <i>New Physics: Sae Mulli</i> , 2019, 69, 590-595.	0.0	3
62	Infrared Conductivity and Carrier Mobility of Large Scale Graphene on Various Substrates. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 5816-5819.	0.9	2
63	Interaction driven quantum Hall effect in artificially stacked graphene bilayers. <i>Scientific Reports</i> , 2016, 6, 24815.	1.6	2
64	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, 1423.	2.0	2
65	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.	0.5	1
66	Multiwalled Carbon Nanotube Bridges and Junctions Using Nanomanipulators. <i>Journal of Nanoscience and Nanotechnology</i> , 2005, 5, 895-898.	0.9	0
67	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.	0.3	0
68	Characteristics of Pristine and Doped Graphene Synthesized by Chemical Vapor Deposition. <i>Physics and High Technology</i> , 2019, 28, 31-38.	0.1	0