

# Ji Won Suk

## 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.

72  
papers

15,179  
citations

36  
h-index

79  
g-index

79  
ext. papers

16,623  
ext. citations

10.6  
avg. IF

6.29  
L-index

#	Paper	IF	Citations
72	A general fruit acid chelation route for eco-friendly and ambient 3D printing of metals.. <i>Nature Communications</i> , <b>2022</b> , 13, 104	17.4	0
71	Ionic solution-processable Ag nanostructures with tunable optical and electrical properties and strong adhesion to general substrates. <i>Applied Materials Today</i> , <b>2022</b> , 27, 101475	6.6	2
70	Activated Graphene Deposited on Porous Cu Mesh for Supercapacitors. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	2
69	Interlayer Separation in Graphene Paper Comprising Electrochemically Exfoliated Graphene. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	1
68	Low-Temperature Synthesis of Wafer-Scale MoS-WS Vertical Heterostructures by Single-Step Penetrative Plasma Sulfurization. <i>ACS Nano</i> , <b>2021</b> , 15, 707-718	16.7	10
67	Polycrystalline Few-Layer Graphene as a Durable Anticorrosion Film for Copper. <i>Nano Letters</i> , <b>2021</b> , 21, 1161-1168	11.5	16
66	Effect of the particle size of graphene oxide powders on the electrochemical performance of graphene-based supercapacitors. <i>Functional Composites and Structures</i> , <b>2021</b> , 3, 015005	3.5	3
65	Graphene Fibers Containing Activated Graphene for High-Performance Solid-State Flexible Supercapacitors. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 8883-8890	6.1	3
64	Enhancement of the adhesion energy between monolayer graphene and SiO <sub>2</sub> by thermal annealing. <i>Applied Surface Science</i> , <b>2021</b> , 570, 151243	6.7	0
63	High-performance and thermostable wire supercapacitors using mesoporous activated graphene deposited on continuous multilayer graphene. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 4800-4809	13	6
62	Synergistic Effect of Graphene/Silver Nanowire Hybrid Fillers on Highly Stretchable Strain Sensors Based on Spandex Composites. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	4
61	Recycling performance of graphene oxide-chitosan hybrid hydrogels for removal of cationic and anionic dyes. <i>Nano Convergence</i> , <b>2020</b> , 7, 4	9.2	31
60	Green, fast, and scalable production of reduced graphene oxide via Taylor vortex flow. <i>Chemical Engineering Journal</i> , <b>2020</b> , 391, 123482	14.7	12
59	Graphene/silver nanoflower hybrid coating for improved cycle performance of thermally-operated soft actuators. <i>Scientific Reports</i> , <b>2020</b> , 10, 17553	4.9	0
58	Impact of Grain Boundaries on the Elastic Behavior of Transferred Polycrystalline Graphene. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 6078-6084	9.6	8
57	Graphene Papers with Tailored Pore Structures Fabricated from Crumpled Graphene Spheres. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	11
56	Adhesion properties of 2D materials. <i>Journal Physics D: Applied Physics</i> , <b>2019</b> , 52, 364002	3	21

55	Multifunctional Smart Textronics with Blow-Spun Nonwoven Fabrics. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1900025	15.6	41
54	Fingerprint-Inspired Conducting Hierarchical Wrinkles for Energy-Harvesting E-Skin. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1903580	15.6	48
53	Electrical Measurements of Thermally Reduced Graphene Oxide Powders under Pressure. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	19
52	Enhanced dynamic performance of twisted and coiled soft actuators using graphene coating. <i>Composites Part B: Engineering</i> , <b>2019</b> , 178, 107499	10	8
51	Scalable Exfoliation of Bulk MoS <sub>2</sub> to Single- and Few-Layers Using Toroidal Taylor Vortices. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	18
50	Soft Fabric Actuator for Robotic Applications <b>2018</b> ,		4
49	Double Helix Twisted and Coiled Soft Actuator from Spandex and Nylon. <i>Advanced Engineering Materials</i> , <b>2018</b> , 20, 1800536	3.5	26
48	Dependence of the In-Plane Thermal Conductivity of Graphene on Grain Misorientation. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 10409-10417	9.6	13
47	Adhesion and Self-Healing between Monolayer Molybdenum Disulfide and Silicon Oxide. <i>Scientific Reports</i> , <b>2017</b> , 7, 14740	4.9	10
46	A comparative study of paper-based microfluidic devices with respect to channel geometry. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2016</b> , 492, 190-198	5.1	28
45	Probing the adhesion interactions of graphene on silicon oxide by nanoindentation. <i>Carbon</i> , <b>2016</b> , 103, 63-72	10.4	37
44	Oxygen-activated growth and bandgap tunability of large single-crystal bilayer graphene. <i>Nature Nanotechnology</i> , <b>2016</b> , 11, 426-31	28.7	227
43	PDMS-paraffin/graphene laminated films with electrothermally switchable haze. <i>Carbon</i> , <b>2016</b> , 96, 805-814	11.4	20
42	Transfer of Chemical Vapor Deposition-Grown Monolayer Graphene by Alkane Hydrocarbon. <i>Science of Advanced Materials</i> , <b>2016</b> , 8, 144-147	2.3	7
41	Clean Transfer of Wafer-Scale Graphene via Liquid Phase Removal of Polycyclic Aromatic Hydrocarbons. <i>ACS Nano</i> , <b>2015</b> , 9, 4726-33	16.7	54
40	Fracture of polycrystalline graphene membranes by in situ nanoindentation in a scanning electron microscope. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2015</b> , 9, 564-569	2.5	22
39	van der waals interactions of graphene membranes with a sharp silicon tip. <i>Journal of the Korean Physical Society</i> , <b>2015</b> , 67, 2003-2006	0.6	5
38	Selective mechanical transfer of graphene from seed copper foil using rate effects. <i>ACS Nano</i> , <b>2015</b> , 9, 1325-35	16.7	88

37	Enhanced dielectric performance in polymer composite films with carbon nanotube-reduced graphene oxide hybrid filler. <i>Small</i> , <b>2014</b> , 10, 3405-11	11	97
36	Flexible and transparent dielectric film with a high dielectric constant using chemical vapor deposition-grown graphene interlayer. <i>ACS Nano</i> , <b>2014</b> , 8, 269-74	16.7	60
35	Large arrays and properties of 3-terminal graphene nanoelectromechanical switches. <i>Advanced Materials</i> , <b>2014</b> , 26, 1571-6	24	46
34	Ultra long-range interactions between large area graphene and silicon. <i>ACS Nano</i> , <b>2014</b> , 8, 11234-42	16.7	68
33	Graphene synthesis via magnetic inductive heating of copper substrates. <i>ACS Nano</i> , <b>2013</b> , 7, 7495-9	16.7	62
32	Evaluation of elastic modulus of ultra-thin vermiculite membranes by contact mode atomic force microscopy imaging. <i>Thin Solid Films</i> , <b>2013</b> , 527, 205-209	2.2	19
31	Enhancement of the electrical properties of graphene grown by chemical vapor deposition via controlling the effects of polymer residue. <i>Nano Letters</i> , <b>2013</b> , 13, 1462-7	11.5	289
30	Inductive tuning of Fano-resonant metasurfaces using plasmonic response of graphene in the mid-infrared. <i>Nano Letters</i> , <b>2013</b> , 13, 1111-7	11.5	205
29	Chlorination of reduced graphene oxide enhances the dielectric constant of reduced graphene oxide/polymer composites. <i>Advanced Materials</i> , <b>2013</b> , 25, 2308-13	24	156
28	Millimeter-size single-crystal graphene by suppressing evaporative loss of Cu during low pressure chemical vapor deposition. <i>Advanced Materials</i> , <b>2013</b> , 25, 2062-5	24	246
27	A chlorinated barium titanate-filled polymer composite with a high dielectric constant and its application to electroluminescent devices. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 5078	7.1	34
26	Simultaneous transfer and doping of CVD-grown graphene by fluoropolymer for transparent conductive films on plastic. <i>ACS Nano</i> , <b>2012</b> , 6, 1284-90	16.7	103
25	Thermoacoustic sound generation from monolayer graphene for transparent and flexible sound sources. <i>Advanced Materials</i> , <b>2012</b> , 24, 6342-7	24	111
24	Improved electrical conductivity of graphene films integrated with metal nanowires. <i>Nano Letters</i> , <b>2012</b> , 12, 5679-83	11.5	263
23	Selective-area fluorination of graphene with fluoropolymer and laser irradiation. <i>Nano Letters</i> , <b>2012</b> , 12, 2374-8	11.5	201
22	Mechanical measurements of ultra-thin amorphous carbon membranes using scanning atomic force microscopy. <i>Carbon</i> , <b>2012</b> , 50, 2220-2225	10.4	60
21	The effect of concentration of graphene nanoplatelets on mechanical and electrical properties of reduced graphene oxide papers. <i>Carbon</i> , <b>2012</b> , 50, 4573-4578	10.4	77
20	Synthesis and characterization of large-area graphene and graphite films on commercial Cu-Ni alloy foils. <i>Nano Letters</i> , <b>2011</b> , 11, 3519-25	11.5	270

19	Oxidative doping renders graphene hydrophilic, facilitating its use as a support in biological TEM. <i>Nano Letters</i> , <b>2011</b> , 11, 4319-23	11.5	46
18	Raman measurements of thermal transport in suspended monolayer graphene of variable sizes in vacuum and gaseous environments. <i>ACS Nano</i> , <b>2011</b> , 5, 321-8	16.7	391
17	Transfer of CVD-grown monolayer graphene onto arbitrary substrates. <i>ACS Nano</i> , <b>2011</b> , 5, 6916-24	16.7	1059
16	Graphene: Substrate preparation and introduction. <i>Journal of Structural Biology</i> , <b>2011</b> , 174, 234-8	3.4	66
15	Interfacial capacitance of single layer graphene. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 4685	35.4	165
14	Using coin cells for ultracapacitor electrode material testing. <i>Journal of Applied Electrochemistry</i> , <b>2011</b> , 41, 681-686	2.6	13
13	Domain (grain) boundaries and evidence of "twinlike" structures in chemically vapor deposited grown graphene. <i>ACS Nano</i> , <b>2011</b> , 5, 2433-9	16.7	156
12	Nanotube fracture during the failure of carbon nanotube/alumina composites. <i>Carbon</i> , <b>2011</b> , 49, 3709-3716	16.4	95
11	The influence of nanoscale defects on the fracture of multi-walled carbon nanotubes under tensile loading. <i>Diamond and Related Materials</i> , <b>2010</b> , 19, 748-751	3.5	42
10	Graphene films with large domain size by a two-step chemical vapor deposition process. <i>Nano Letters</i> , <b>2010</b> , 10, 4328-34	11.5	836
9	Mechanical properties of monolayer graphene oxide. <i>ACS Nano</i> , <b>2010</b> , 4, 6557-64	16.7	831
8	Biocompatible, robust free-standing paper composed of a TWEEN/graphene composite. <i>Advanced Materials</i> , <b>2010</b> , 22, 1736-40	24	340
7	Graphene and graphene oxide: synthesis, properties, and applications. <i>Advanced Materials</i> , <b>2010</b> , 22, 3906-24	24	7620
6	Graphene-based actuators. <i>Small</i> , <b>2010</b> , 6, 210-2	11	237
5	FABRICATION AND MEASUREMENT OF SUSPENDED SILICON CARBIDE NANOWIRE DEVICES AND DEFLECTION. <i>Nano</i> , <b>2009</b> , 04, 351-358	1.1	2
4	Microsystem for nanofiber electromechanical measurements. <i>Sensors and Actuators A: Physical</i> , <b>2009</b> , 155, 1-7	3.9	31
3	Reagent-loaded plastic microfluidic chips for detecting homocysteine. <i>Journal of Micromechanics and Microengineering</i> , <b>2008</b> , 18, 055024	2	6
2	Capillary flow control using hydrophobic patterns. <i>Journal of Micromechanics and Microengineering</i> , <b>2007</b> , 17, N11-N15	2	62

- 1 A predictor algorithm for fast geometrically-nonlinear dynamic analysis. *Computer Methods in Applied Mechanics and Engineering*, **2003**, 192, 2521-2538

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