

Ji Won Suk

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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 | Graphene and graphene oxide: synthesis, properties, and applications. <i>Advanced Materials</i> , 2010 , 22, 3906-24 | 24 | 7620 |
| 71 | Transfer of CVD-grown monolayer graphene onto arbitrary substrates. <i>ACS Nano</i> , 2011 , 5, 6916-24 | 16.7 | 1059 |
| 70 | Graphene films with large domain size by a two-step chemical vapor deposition process. <i>Nano Letters</i> , 2010 , 10, 4328-34 | 11.5 | 836 |
| 69 | Mechanical properties of monolayer graphene oxide. <i>ACS Nano</i> , 2010 , 4, 6557-64 | 16.7 | 831 |
| 68 | Raman measurements of thermal transport in suspended monolayer graphene of variable sizes in vacuum and gaseous environments. <i>ACS Nano</i> , 2011 , 5, 321-8 | 16.7 | 391 |
| 67 | Biocompatible, robust free-standing paper composed of a TWEEN/graphene composite. <i>Advanced Materials</i> , 2010 , 22, 1736-40 | 24 | 340 |
| 66 | Enhancement of the electrical properties of graphene grown by chemical vapor deposition via controlling the effects of polymer residue. <i>Nano Letters</i> , 2013 , 13, 1462-7 | 11.5 | 289 |
| 65 | Synthesis and characterization of large-area graphene and graphite films on commercial Cu-Ni alloy foils. <i>Nano Letters</i> , 2011 , 11, 3519-25 | 11.5 | 270 |
| 64 | Improved electrical conductivity of graphene films integrated with metal nanowires. <i>Nano Letters</i> , 2012 , 12, 5679-83 | 11.5 | 263 |
| 63 | Millimeter-size single-crystal graphene by suppressing evaporative loss of Cu during low pressure chemical vapor deposition. <i>Advanced Materials</i> , 2013 , 25, 2062-5 | 24 | 246 |
| 62 | Graphene-based actuators. <i>Small</i> , 2010 , 6, 210-2 | 11 | 237 |
| 61 | Oxygen-activated growth and bandgap tunability of large single-crystal bilayer graphene. <i>Nature Nanotechnology</i> , 2016 , 11, 426-31 | 28.7 | 227 |
| 60 | Inductive tuning of Fano-resonant metasurfaces using plasmonic response of graphene in the mid-infrared. <i>Nano Letters</i> , 2013 , 13, 1111-7 | 11.5 | 205 |
| 59 | Selective-area fluorination of graphene with fluoropolymer and laser irradiation. <i>Nano Letters</i> , 2012 , 12, 2374-8 | 11.5 | 201 |
| 58 | Interfacial capacitance of single layer graphene. <i>Energy and Environmental Science</i> , 2011 , 4, 4685 | 35.4 | 165 |
| 57 | Chlorination of reduced graphene oxide enhances the dielectric constant of reduced graphene oxide/polymer composites. <i>Advanced Materials</i> , 2013 , 25, 2308-13 | 24 | 156 |
| 56 | Domain (grain) boundaries and evidence of "twinlike" structures in chemically vapor deposited grown graphene. <i>ACS Nano</i> , 2011 , 5, 2433-9 | 16.7 | 156 |

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|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 55 | Thermoacoustic sound generation from monolayer graphene for transparent and flexible sound sources. <i>Advanced Materials</i> , 2012 , 24, 6342-7 | 24 | 111 |
| 54 | Simultaneous transfer and doping of CVD-grown graphene by fluoropolymer for transparent conductive films on plastic. <i>ACS Nano</i> , 2012 , 6, 1284-90 | 16.7 | 103 |
| 53 | Enhanced dielectric performance in polymer composite films with carbon nanotube-reduced graphene oxide hybrid filler. <i>Small</i> , 2014 , 10, 3405-11 | 11 | 97 |
| 52 | Nanotube fracture during the failure of carbon nanotube/alumina composites. <i>Carbon</i> , 2011 , 49, 3709-3716 | 16.4 | 95 |
| 51 | Selective mechanical transfer of graphene from seed copper foil using rate effects. <i>ACS Nano</i> , 2015 , 9, 1325-35 | 16.7 | 88 |
| 50 | The effect of concentration of graphene nanoplatelets on mechanical and electrical properties of reduced graphene oxide papers. <i>Carbon</i> , 2012 , 50, 4573-4578 | 10.4 | 77 |
| 49 | Ultra long-range interactions between large area graphene and silicon. <i>ACS Nano</i> , 2014 , 8, 11234-42 | 16.7 | 68 |
| 48 | Graphene: Substrate preparation and introduction. <i>Journal of Structural Biology</i> , 2011 , 174, 234-8 | 3.4 | 66 |
| 47 | Graphene synthesis via magnetic inductive heating of copper substrates. <i>ACS Nano</i> , 2013 , 7, 7495-9 | 16.7 | 62 |
| 46 | Capillary flow control using hydrophobic patterns. <i>Journal of Micromechanics and Microengineering</i> , 2007 , 17, N11-N15 | 2 | 62 |
| 45 | Flexible and transparent dielectric film with a high dielectric constant using chemical vapor deposition-grown graphene interlayer. <i>ACS Nano</i> , 2014 , 8, 269-74 | 16.7 | 60 |
| 44 | Mechanical measurements of ultra-thin amorphous carbon membranes using scanning atomic force microscopy. <i>Carbon</i> , 2012 , 50, 2220-2225 | 10.4 | 60 |
| 43 | Clean Transfer of Wafer-Scale Graphene via Liquid Phase Removal of Polycyclic Aromatic Hydrocarbons. <i>ACS Nano</i> , 2015 , 9, 4726-33 | 16.7 | 54 |
| 42 | Fingerprint-Inspired Conducting Hierarchical Wrinkles for Energy-Harvesting E-Skin. <i>Advanced Functional Materials</i> , 2019 , 29, 1903580 | 15.6 | 48 |
| 41 | Large arrays and properties of 3-terminal graphene nanoelectromechanical switches. <i>Advanced Materials</i> , 2014 , 26, 1571-6 | 24 | 46 |
| 40 | Oxidative doping renders graphene hydrophilic, facilitating its use as a support in biological TEM. <i>Nano Letters</i> , 2011 , 11, 4319-23 | 11.5 | 46 |
| 39 | The influence of nanoscale defects on the fracture of multi-walled carbon nanotubes under tensile loading. <i>Diamond and Related Materials</i> , 2010 , 19, 748-751 | 3.5 | 42 |
| 38 | Multifunctional Smart Textronics with Blow-Spun Nonwoven Fabrics. <i>Advanced Functional Materials</i> , 2019 , 29, 1900025 | 15.6 | 41 |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 37 | Probing the adhesion interactions of graphene on silicon oxide by nanoindentation. <i>Carbon</i> , 2016 , 103, 63-72 | 10.4 | 37 |
| 36 | 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> , 2013 , 1, 5078 | 7.1 | 34 |
| 35 | Recycling performance of graphene oxide-chitosan hybrid hydrogels for removal of cationic and anionic dyes. <i>Nano Convergence</i> , 2020 , 7, 4 | 9.2 | 31 |
| 34 | Microsystem for nanofiber electromechanical measurements. <i>Sensors and Actuators A: Physical</i> , 2009 , 155, 1-7 | 3.9 | 31 |
| 33 | A comparative study of paper-based microfluidic devices with respect to channel geometry. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016 , 492, 190-198 | 5.1 | 28 |
| 32 | Double Helix Twisted and Coiled Soft Actuator from Spandex and Nylon. <i>Advanced Engineering Materials</i> , 2018 , 20, 1800536 | 3.5 | 26 |
| 31 | Fracture of polycrystalline graphene membranes by in situ nanoindentation in a scanning electron microscope. <i>Physica Status Solidi - Rapid Research Letters</i> , 2015 , 9, 564-569 | 2.5 | 22 |
| 30 | Adhesion properties of 2D materials. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 364002 | 3 | 21 |
| 29 | PDMS-paraffin/graphene laminated films with electrothermally switchable haze. <i>Carbon</i> , 2016 , 96, 805-814 | 8.4 | 20 |
| 28 | Electrical Measurements of Thermally Reduced Graphene Oxide Powders under Pressure. <i>Nanomaterials</i> , 2019 , 9, | 5.4 | 19 |
| 27 | Evaluation of elastic modulus of ultra-thin vermiculite membranes by contact mode atomic force microscopy imaging. <i>Thin Solid Films</i> , 2013 , 527, 205-209 | 2.2 | 19 |
| 26 | Scalable Exfoliation of Bulk MoS ₂ to Single- and Few-Layers Using Toroidal Taylor Vortices. <i>Nanomaterials</i> , 2018 , 8, | 5.4 | 18 |
| 25 | Polycrystalline Few-Layer Graphene as a Durable Anticorrosion Film for Copper. <i>Nano Letters</i> , 2021 , 21, 1161-1168 | 11.5 | 16 |
| 24 | Dependence of the In-Plane Thermal Conductivity of Graphene on Grain Misorientation. <i>Chemistry of Materials</i> , 2017 , 29, 10409-10417 | 9.6 | 13 |
| 23 | Using coin cells for ultracapacitor electrode material testing. <i>Journal of Applied Electrochemistry</i> , 2011 , 41, 681-686 | 2.6 | 13 |
| 22 | Green, fast, and scalable production of reduced graphene oxide via Taylor vortex flow. <i>Chemical Engineering Journal</i> , 2020 , 391, 123482 | 14.7 | 12 |
| 21 | Graphene Papers with Tailored Pore Structures Fabricated from Crumpled Graphene Spheres. <i>Nanomaterials</i> , 2019 , 9, | 5.4 | 11 |
| 20 | Adhesion and Self-Healing between Monolayer Molybdenum Disulfide and Silicon Oxide. <i>Scientific Reports</i> , 2017 , 7, 14740 | 4.9 | 10 |

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|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 19 | Low-Temperature Synthesis of Wafer-Scale MoS-WS Vertical Heterostructures by Single-Step Penetrative Plasma Sulfurization. <i>ACS Nano</i> , 2021 , 15, 707-718 | 16.7 | 10 |
| 18 | Enhanced dynamic performance of twisted and coiled soft actuators using graphene coating. <i>Composites Part B: Engineering</i> , 2019 , 178, 107499 | 10 | 8 |
| 17 | Impact of Grain Boundaries on the Elastic Behavior of Transferred Polycrystalline Graphene. <i>Chemistry of Materials</i> , 2020 , 32, 6078-6084 | 9.6 | 8 |
| 16 | Transfer of Chemical Vapor Deposition-Grown Monolayer Graphene by Alkane Hydrocarbon. <i>Science of Advanced Materials</i> , 2016 , 8, 144-147 | 2.3 | 7 |
| 15 | Reagent-loaded plastic microfluidic chips for detecting homocysteine. <i>Journal of Micromechanics and Microengineering</i> , 2008 , 18, 055024 | 2 | 6 |
| 14 | High-performance and thermostable wire supercapacitors using mesoporous activated graphene deposited on continuous multilayer graphene. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 4800-4809 | 13 | 6 |
| 13 | van der waals interactions of graphene membranes with a sharp silicon tip. <i>Journal of the Korean Physical Society</i> , 2015 , 67, 2003-2006 | 0.6 | 5 |
| 12 | A predictor algorithm for fast geometrically-nonlinear dynamic analysis. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2003 , 192, 2521-2538 | 5.7 | 5 |
| 11 | Synergistic Effect of Graphene/Silver Nanowire Hybrid Fillers on Highly Stretchable Strain Sensors Based on Spandex Composites. <i>Nanomaterials</i> , 2020 , 10, | 5.4 | 4 |
| 10 | Soft Fabric Actuator for Robotic Applications 2018 , | | 4 |
| 9 | Effect of the particle size of graphene oxide powders on the electrochemical performance of graphene-based supercapacitors. <i>Functional Composites and Structures</i> , 2021 , 3, 015005 | 3.5 | 3 |
| 8 | Graphene Fibers Containing Activated Graphene for High-Performance Solid-State Flexible Supercapacitors. <i>ACS Applied Energy Materials</i> , 2021 , 4, 8883-8890 | 6.1 | 3 |
| 7 | FABRICATION AND MEASUREMENT OF SUSPENDED SILICON CARBIDE NANOWIRE DEVICES AND DEFLECTION. <i>Nano</i> , 2009 , 04, 351-358 | 1.1 | 2 |
| 6 | Activated Graphene Deposited on Porous Cu Mesh for Supercapacitors. <i>Nanomaterials</i> , 2021 , 11, | 5.4 | 2 |
| 5 | Ionic solution-processable Ag nanostructures with tunable optical and electrical properties and strong adhesion to general substrates. <i>Applied Materials Today</i> , 2022 , 27, 101475 | 6.6 | 2 |
| 4 | Interlayer Separation in Graphene Paper Comprising Electrochemically Exfoliated Graphene. <i>Nanomaterials</i> , 2021 , 11, | 5.4 | 1 |
| 3 | Graphene/silver nanoflower hybrid coating for improved cycle performance of thermally-operated soft actuators. <i>Scientific Reports</i> , 2020 , 10, 17553 | 4.9 | 0 |
| 2 | Enhancement of the adhesion energy between monolayer graphene and SiO ₂ by thermal annealing. <i>Applied Surface Science</i> , 2021 , 570, 151243 | 6.7 | 0 |

- 1 A general fruit acid chelation route for eco-friendly and ambient 3D printing of metals.. *Nature Communications*, **2022**, 13, 104

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