Joong Tark Han

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.

60 3,913 31 110 h-index g-index citations papers 8.7 5.26 112 4,323 avg, IF L-index ext. citations ext. papers

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 110 | A study of the correlation between the oxidation degree and thickness of graphene oxides. <i>Carbon</i> , 2022 , 189, 579-585 | 10.4 | 1 |
| 109 | Ultrasensitive, Transparent, Flexible, and Ecofriendly NO2 Gas Sensors Enabled by Oxidized Single-Walled Carbon Nanotube Bundles on Cellulose with Engineered Surface Roughness. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 3227-3235 | 8.3 | 2 |
| 108 | Synthesis of silver nanoparticles embedded with single-walled carbon nanotubes for printable elastic electrodes and sensors with high stability. <i>Scientific Reports</i> , 2021 , 11, 5140 | 4.9 | 3 |
| 107 | Rational electrodeposition of Cu on highly oxidized multiwalled carbon nanotube films. <i>Carbon</i> , 2021 , 174, 723-729 | 10.4 | 2 |
| 106 | Electronic Textiles Based on Highly Conducting Poly(vinyl alcohol)/Carbon Nanotube/Silver Nanobelt Hybrid Fibers. <i>ACS Applied Materials & Amp; Interfaces</i> , 2021 , 13, 31051-31058 | 9.5 | 7 |
| 105 | Molecular-Level Contact of Graphene/Silver Nanowires through Simultaneous Dispersion for a Highly Stable Wearable Electrothermal Heater. <i>Advanced Materials Technologies</i> , 2021 , 6, 2100177 | 6.8 | 3 |
| 104 | Minimizing Temperature Gradient in Photonic Sintering for Defect-Free High-Conductivity Cu-Based Printed Patterns by Bidirectional Irradiation. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100769 | 4.6 | O |
| 103 | Fully stretchable self-charging power unit with micro-supercapacitor and triboelectric nanogenerator based on oxidized single-walled carbon nanotube/polymer electrodes. <i>Nano Energy</i> , 2021 , 86, 106083 | 17.1 | 17 |
| 102 | Structural control of highly oxidized carbon nanotube networks for high electrochemical performance. <i>Journal of Industrial and Engineering Chemistry</i> , 2021 , 104, 172-172 | 6.3 | 1 |
| 101 | Extraordinary thermal behavior of graphene oxide in air for electrode applications. <i>Nanoscale Advances</i> , 2021 , 3, 1597-1602 | 5.1 | O |
| 100 | Influence of oxyfluorinated graphite on fluorinated ethylenepropylene composites as bipolar plates. <i>Carbon Letters</i> , 2020 , 30, 345-352 | 2.3 | 4 |
| 99 | 3D-Printed Sugar Scaffold for High-Precision and Highly Sensitive Active and Passive Wearable Sensors. <i>Advanced Science</i> , 2020 , 7, 1902521 | 13.6 | 17 |
| 98 | Efficient oxidation and rational reduction of long carbon nanotubes for multifunctional superhydrophobic surfaces. <i>Carbon</i> , 2020 , 157, 649-655 | 10.4 | 8 |
| 97 | Tailored and highly efficient oxidation of various-sized graphite by kneading for high-quality graphene nanosheets. <i>Carbon</i> , 2020 , 157, 663-669 | 10.4 | 5 |
| 96 | Highly Exfoliated and Functionalized Single-Walled Carbon Nanotubes as Fast-Charging, High-Capacity Cathodes for Rechargeable Lithium-Ion Batteries. <i>ACS Applied Materials & ACS Applied Materials & Interfaces</i> , 2020 , 12, 1322-1329 | 9.5 | 12 |
| 95 | Graphite block derived from natural graphite with bimodal particle size distribution. <i>SN Applied Sciences</i> , 2020 , 2, 1 | 1.8 | 1 |
| 94 | Organic transistors based on oxidized single-walled carbon nanotube electrodes patterned via simple spray coating. <i>Synthetic Metals</i> , 2020 , 268, 116511 | 3.6 | |

(2017-2019)

| 93 | Improved Charge Transport and Reduced Non-Geminate Recombination in Organic Solar Cells by Adding Size-Selected Graphene Oxide Nanosheets. <i>ACS Applied Materials & Diterfaces</i> , 2019 , 11, 20183-20191 | 9.5 | 12 |
|----|--|------|----|
| 92 | Structural Recovery of Highly Oxidized Single-Walled Carbon Nanotubes Fabricated by Kneading and Electrochemical Applications. <i>Chemistry of Materials</i> , 2019 , 31, 3468-3475 | 9.6 | 18 |
| 91 | Multifunctional Smart Textronics with Blow-Spun Nonwoven Fabrics. <i>Advanced Functional Materials</i> , 2019 , 29, 1900025 | 15.6 | 41 |
| 90 | Heavily nitrogen doped chemically exfoliated graphene by flash heating. <i>Carbon</i> , 2019 , 144, 675-683 | 10.4 | 8 |
| 89 | High-performance flexible transparent nanomesh electrodes. <i>Nanotechnology</i> , 2019 , 30, 125301 | 3.4 | 10 |
| 88 | Studying the reduction of graphene oxide with magnetic measurements. <i>Carbon</i> , 2019 , 142, 373-378 | 10.4 | 22 |
| 87 | Controllable Bipolar Doping of Graphene with 2D Molecular Dopants. Small, 2018, 14, e1703697 | 11 | 2 |
| 86 | Bulk metal-derived metal oxide nanoparticles on oxidized carbon surface. <i>Journal of Alloys and Compounds</i> , 2018 , 752, 198-205 | 5.7 | 1 |
| 85 | Tunable Charge Injection via Solution-Processed Reduced Graphene Oxide Electrode for Vertical Schottky Barrier Transistors. <i>Chemistry of Materials</i> , 2018 , 30, 636-643 | 9.6 | 24 |
| 84 | Fabrication of high-quality or highly porous graphene sheets from exfoliated graphene oxide via reactions in alkaline solutions. <i>Carbon</i> , 2018 , 138, 219-226 | 10.4 | 20 |
| 83 | Chemically Exfoliated Graphene Nanosheets for Flexible Electrode Applications 2018, | | 1 |
| 82 | Structural optimization of graphite for high-performance fluorinated ethylenepropylene composites as bipolar plates. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 21918-21927 | 6.7 | 20 |
| 81 | Enhanced ambipolar charge transport in staggered carbon nanotube field-effect transistors for printed complementary-like circuits. <i>Current Applied Physics</i> , 2017 , 17, 541-547 | 2.6 | 6 |
| 80 | Bioinspired Multifunctional Superhydrophobic Surfaces with Carbon-Nanotube-Based Conducting Pastes by Facile and Scalable Printing. <i>ACS Applied Materials & Amp; Interfaces</i> , 2017 , 9, 7780-7786 | 9.5 | 35 |
| 79 | Rapid transformation of transparent conducting films into superhydrophobic conductive films. <i>RSC Advances</i> , 2017 , 7, 17173-17177 | 3.7 | |
| 78 | Micropatterning of reduced graphene oxide by meniscus-guided printing. <i>Carbon</i> , 2017 , 123, 364-370 | 10.4 | 14 |
| 77 | Realization of transparent conducting networks with high uniformity by spray deposition on flexible substrates. <i>Thin Solid Films</i> , 2017 , 638, 367-374 | 2.2 | 7 |
| 76 | Synthesis of nanobelt-like 1-dimensional silver/nanocarbon hybrid materials for flexible and wearable electroncs. <i>Scientific Reports</i> , 2017 , 7, 4931 | 4.9 | 14 |

| 75 | Multi-functionalized herringbone carbon nanofiber for anodes of lithium ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 18612-18618 | 3.6 | 4 |
|----|--|-----------------------------|--------------|
| 74 | Fabrication of water-dispersible single-walled carbon nanotube powder using N-methylmorpholine N-oxide. <i>Nanotechnology</i> , 2017 , 28, 465706 | 3.4 | 5 |
| 73 | Ultrafast Heating for Intrinsic Properties of Atomically Thin Two-Dimensional Materials on Plastic Substrates. <i>ACS Applied Materials & Acs Applied & Acs </i> | 9.5 | 5 |
| 72 | Stretchable and Multimodal All Graphene Electronic Skin. <i>Advanced Materials</i> , 2016 , 28, 2601-8 | 24 | 385 |
| 71 | Scalable fabrication of micron-scale graphene nanomeshes for high-performance supercapacitor applications. <i>Energy and Environmental Science</i> , 2016 , 9, 1270-1281 | 35.4 | 97 |
| 70 | Sheet Size-Induced Evaporation Behaviors of Inkjet-Printed Graphene Oxide for Printed Electronics. <i>ACS Applied Materials & Damp; Interfaces</i> , 2016 , 8, 3193-9 | 9.5 | 24 |
| 69 | Longitudinal unzipped carbon nanotubes with high specific surface area and trimodal pore structure. <i>RSC Advances</i> , 2016 , 6, 8661-8668 | 3.7 | 11 |
| 68 | Sub-second carbon-nanotube-mediated microwave sintering for high-conductivity silver patterns on plastic substrates. <i>Nanoscale</i> , 2016 , 8, 5343-9 | 7.7 | 10 |
| 67 | Enhanced transparent conducting networks on plastic substrates modified with highly oxidized graphene oxide nanosheets. <i>Nanoscale</i> , 2016 , 8, 6693-9 | 7.7 | 3 |
| 66 | Nanocarbon/silver Nanowire Hybrid Flexible Transparent Conducting Film Technology. <i>Journal of the Korean Institute of Surface Engineering</i> , 2016 , 49, 323-330 | | |
| 65 | Carbon nanotube-induced migration of silver nanowire networks into plastic substrates via Joule heating for high stability. <i>RSC Advances</i> , 2016 , 6, 86395-86400 | 3.7 | 4 |
| 64 | Enhanced response and sensitivity of self-corrugated graphene sensors with anisotropic charge distribution. <i>Scientific Reports</i> , 2015 , 5, 11216 | 4.9 | 17 |
| 63 | Efficient low-temperature transparent electrocatalytic layers based on graphene oxide nanosheets for dye-sensitized solar cells. <i>ACS Applied Materials & District Materials & Di</i> | 9.5 | 16 |
| 62 | Rearrangement of 1D conducting nanomaterials towards highly electrically conducting nanocomposite fibres for electronic textiles. <i>Scientific Reports</i> , 2015 , 5, 9300 | 4.9 | 19 |
| 61 | Sensitive photo-thermal response of graphene oxide for mid-infrared detection. <i>Nanoscale</i> , 2015 , 7, 1 | 56 9<i>5</i>- 70 | 00 40 |
| 60 | 3D printing of reduced graphene oxide nanowires. <i>Advanced Materials</i> , 2015 , 27, 157-61 | 24 | 188 |
| 59 | Chemically doped three-dimensional porous graphene monoliths for high-performance flexible field emitters. <i>Nanoscale</i> , 2015 , 7, 5495-502 | 7.7 | 10 |
| 58 | Retransformed graphitic activated carbon from ionic liquid-derived carbon containing nitrogen. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 2564-2567 | 13 | 13 |

(2012-2015)

| 57 | Monolithic Graphene Trees as Anode Material for Lithium Ion Batteries with High C-Rates. <i>Small</i> , 2015 , 11, 2774-81 | 11 | 18 | |
|----|--|------|----|--|
| 56 | Electrically robust metal nanowire network formation by in-situ interconnection with single-walled carbon nanotubes. <i>Scientific Reports</i> , 2014 , 4, 4804 | 4.9 | 55 | |
| 55 | Extremely efficient liquid exfoliation and dispersion of layered materials by unusual acoustic cavitation. <i>Scientific Reports</i> , 2014 , 4, 5133 | 4.9 | 78 | |
| 54 | Spine-like nanostructured carbon interconnected by graphene for high-performance supercapacitors. <i>Scientific Reports</i> , 2014 , 4, 6118 | 4.9 | 20 | |
| 53 | One-step transfer and integration of multifunctionality in CVD graphene by TiO/Igraphene oxide hybrid layer. <i>Small</i> , 2014 , 10, 2057-66 | 11 | 14 | |
| 52 | Improved transfer of chemical-vapor-deposited graphene through modification of intermolecular interactions and solubility of poly(methylmethacrylate) layers. <i>Carbon</i> , 2014 , 66, 612-618 | 10.4 | 41 | |
| 51 | Highly efficient polymer-based optoelectronic devices using PEDOT:PSS and a GO composite layer as a hole transport layer. <i>ACS Applied Materials & Amp; Interfaces</i> , 2014 , 6, 2067-73 | 9.5 | 78 | |
| 50 | Fluorinated activated carbon with superb kinetics for the supercapacitor application in nonaqueous electrolyte. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014 , 443, 535-539 | 5.1 | 35 | |
| 49 | Microwave flash annealing for stability of chemically doped single-walled carbon nanotube films on plastic substrates. <i>Nanoscale</i> , 2014 , 6, 2971-7 | 7.7 | 6 | |
| 48 | Doping graphene with an atomically thin two dimensional molecular layer. <i>Advanced Materials</i> , 2014 , 26, 8141-6 | 24 | 33 | |
| 47 | Graphene: Doping Graphene with an Atomically Thin Two Dimensional Molecular Layer (Adv. Mater. 48/2014). <i>Advanced Materials</i> , 2014 , 26, 8070-8070 | 24 | | |
| 46 | Dispersant-free conducting pastes for flexible and printed nanocarbon electrodes. <i>Nature Communications</i> , 2013 , 4, 2491 | 17.4 | 53 | |
| 45 | Self-organized graphene nanosheets with corrugated, ordered tip structures for high-performance flexible field emission. <i>Small</i> , 2013 , 9, 2182-8 | 11 | 16 | |
| 44 | Ribbon-like activated carbon with a multi-structure for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 14008 | 13 | 12 | |
| 43 | Size sorting of chemically modified graphene nanoplatelets. Carbon Letters, 2013, 14, 89-93 | 2.3 | 6 | |
| 42 | Graphene oxide as a multi-functional p-dopant of transparent single-walled carbon nanotube films for optoelectronic devices. <i>Nanoscale</i> , 2012 , 4, 7735-42 | 7.7 | 34 | |
| 41 | Arrays of vertically aligned tubular-structured graphene for flexible field emitters. <i>Journal of Materials Chemistry</i> , 2012 , 22, 11277 | | 17 | |
| 40 | Spontaneous reduction and dispersion of graphene nano-platelets with in situ synthesized hydrazine assisted by hexamethyldisilazane. <i>Journal of Materials Chemistry</i> , 2012 , 22, 20477 | | 8 | |

| 39 | Highly tunable charge transport in layer-by-layer assembled graphene transistors. <i>ACS Nano</i> , 2012 , 6, 2432-40 | 16.7 | 77 |
|----|---|-------------------|----|
| 38 | Highly efficient polymer light-emitting diodes using graphene oxide-modified flexible single-walled carbon nanotube electrodes. <i>Journal of Materials Chemistry</i> , 2012 , 22, 21481 | | 21 |
| 37 | Flexible field emission from thermally welded chemically doped graphene thin films. <i>Small</i> , 2012 , 8, 27 | 2- 8 0 | 28 |
| 36 | Highly Concentrated and Conductive Reduced Graphene Oxide Nanosheets by Monovalent Cation Interaction: Toward Printed Electronics. <i>Advanced Functional Materials</i> , 2012 , 22, 3307-3314 | 15.6 | 59 |
| 35 | Self-passivation of transparent single-walled carbon nanotube films on plastic substrates by microwave-induced rapid nanowelding. <i>Applied Physics Letters</i> , 2012 , 100, 163120 | 3.4 | 18 |
| 34 | Transparent carbon nanotube patterns templated by inkjet-printed graphene oxide nanosheets. <i>RSC Advances</i> , 2011 , 1, 44 | 3.7 | 14 |
| 33 | Enhanced electrical properties of reduced graphene oxide multilayer films by in-situ insertion of a TiO2 layer. <i>ACS Nano</i> , 2011 , 5, 8884-91 | 16.7 | 49 |
| 32 | Titania-assisted dispersion of carboxylated single-walled carbon nanotubes in a ZnO sol for transparent conducting hybrid films. <i>ACS Applied Materials & District Sciences</i> , 2011 , 3, 2671-6 | 9.5 | 10 |
| 31 | All-Carbon Nanotube-Based Flexible Field-Emission Devices: From Cathode to Anode. <i>Advanced Functional Materials</i> , 2011 , 21, 1526-1532 | 15.6 | 73 |
| 30 | High-performance transparent conductive films using rheologically derived reduced graphene oxide. <i>ACS Nano</i> , 2011 , 5, 870-8 | 16.7 | 78 |
| 29 | Chemical Strain-Relaxation of Single-Walled Carbon Nanotubes on Plastic Substrates for Enhanced Conductivity. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 22251-22256 | 3.8 | 6 |
| 28 | Modulating conductivity, environmental stability of transparent conducting nanotube films on flexible substrates by interfacial engineering. <i>ACS Nano</i> , 2010 , 4, 4551-8 | 16.7 | 26 |
| 27 | Enhanced Electrical Properties of Transparent Carbon Nanotube/Binder Hybrid Thin Films: Effects of the Silane Sol and the Bundle Size of the Carbon Nanotubes. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 6416-6421 | 3.9 | 4 |
| 26 | Robust superhydrophobic mats based on electrospun crystalline nanofibers combined with a silane precursor. <i>ACS Applied Materials & amp; Interfaces</i> , 2010 , 2, 658-62 | 9.5 | 64 |
| 25 | Chemical and geometrical criteria for the release of elastomeric 1D nanoarrays from porous nanotemplates. <i>Langmuir</i> , 2010 , 26, 3252-6 | 4 | 10 |
| 24 | Nanocarbon-induced rapid transformation of polymer surfaces into superhydrophobic surfaces. <i>ACS Applied Materials & District Surfaces</i> , 2010 , 2, 3378-83 | 9.5 | 16 |
| 23 | Noncovalent titania wrapping of single-walled carbon nanotubes for environmentally stable transparent conductive thin films. <i>Journal of Materials Chemistry</i> , 2010 , 20, 8557 | | 9 |
| 22 | Direct observation of interfacial C60 cluster formation in polystyrene-C60 nanocomposite films. <i>Nanotechnology</i> , 2009 , 20, 105705 | 3.4 | 11 |

(2004-2009)

| 21 | Molecular Engineering to Minimize the Sheet Resistance Increase of Single-Walled Carbon Nanotube/Binder Hybrid Conductive Thin Films. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 16915-16920 | 03.8 | 11 |
|----|---|------|-----|
| 20 | Wettability Controlled Fabrication of Highly Transparent and Conductive Carbon Nanotube/Silane Sol Hybrid Thin Films. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 6303-6307 | 3.9 | 5 |
| 19 | Hydrogen-Bond-Driven Assembly of Thin Multiwalled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 15961-15965 | 3.8 | 18 |
| 18 | Transparent, Conductive, and Superhydrophobic Films from Stabilized Carbon Nanotube/Silane Sol Mixture Solution. <i>Advanced Materials</i> , 2008 , 20, 3724-3727 | 24 | 164 |
| 17 | Facile control of thermo-responsive wettability through an all-electrostatic self-assembling process. <i>Surface Science</i> , 2008 , 602, 3100-3105 | 1.8 | 8 |
| 16 | UVO-tunable superhydrophobic to superhydrophilic wetting transition on biomimetic nanostructured surfaces. <i>Langmuir</i> , 2007 , 23, 2608-14 | 4 | 67 |
| 15 | Sequential formation of calcium carbonate superstructure: From solid/hollow spheres to sponge-like/solid films. <i>Journal of Crystal Growth</i> , 2007 , 308, 110-116 | 1.6 | 21 |
| 14 | Precise control of surface wettability of mixed monolayers using a simple wiping method. <i>Thin Solid Films</i> , 2006 , 515, 2079-2084 | 2.2 | 17 |
| 13 | Photoreversibly switchable superhydrophobic surface with erasable and rewritable pattern. <i>Journal of the American Chemical Society</i> , 2006 , 128, 14458-9 | 16.4 | 307 |
| 12 | Two modes of transformation of amorphous calcium carbonate films in air. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 2764-70 | 3.4 | 86 |
| 11 | Fabrication of a bionic superhydrophobic metal surface by sulfur-induced morphological development. <i>Journal of Materials Chemistry</i> , 2005 , 15, 3089 | | 93 |
| 10 | Stable superhydrophobic organic-inorganic hybrid films by electrostatic self-assembly. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 20773-8 | 3.4 | 168 |
| 9 | Biomimetic Fabrication of Vaterite Film from Amorphous Calcium Carbonate on Polymer Melt: Effect of Polymer Chain Mobility and Functionality. <i>Chemistry of Materials</i> , 2005 , 17, 136-141 | 9.6 | 50 |
| 8 | Diverse access to artificial superhydrophobic surfaces using block copolymers. <i>Langmuir</i> , 2005 , 21, 6662 | 2-45 | 207 |
| 7 | Layered Silicate-Induced Enhancement of Fracture Toughness of Epoxy Molding Compounds over a Wide Temperature Range. <i>Macromolecular Materials and Engineering</i> , 2005 , 290, 1184-1191 | 3.9 | 18 |
| 6 | Deposition of amorphous calcium carbonate hemispheres on substrates. <i>Langmuir</i> , 2005 , 21, 4801-4 | 4 | 39 |
| 5 | Control of the electrical and adhesion properties of metal/organic interfaces with self-assembled monolayers. <i>Applied Physics Letters</i> , 2005 , 86, 171906 | 3.4 | 22 |
| 4 | Formation of Amorphous Calcium Carbonate Thin Films and Their Role in Biomineralization. <i>Chemistry of Materials</i> , 2004 , 16, 1740-1746 | 9.6 | 115 |

| 3 | Fabrication of superhydrophobic surface from a supramolecular organosilane with quadruple hydrogen bonding. <i>Journal of the American Chemical Society</i> , 2004 , 126, 4796-7 | 16.4 | 205 |
|---|---|------|-----|
| 2 | Pattern Formation in Ultrathin Films of a Novel DimethylsiloxaneAcrylate Triblock Copolymer. <i>Macromolecules</i> , 2003 , 36, 8902-8905 | 5.5 | 2 |
| 1 | All-Printed Paper-Based Micro-supercapacitors Using Water-Based Additive-Free Oxidized Single-Walled Carbon Nanotube Pastes. ACS Applied Energy Materials, | 6.1 | 3 |