

Jeong Gon Son

List of Publications by Year in descending order

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60
papers

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citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Flexible/Stretchable Supercapacitors with Novel Functionality for Wearable Electronics. <i>Advanced Materials</i> , 2020, 32, e2002180. | 21.0 | 236 |
| 2 | Morphology Control in Block Copolymer Films Using Mixed Solvent Vapors. <i>ACS Nano</i> , 2012, 6, 8052-8059. | 14.6 | 198 |
| 3 | Flexible and Robust Thermoelectric Generators Based on All-Carbon Nanotube Yarn without Metal Electrodes. <i>ACS Nano</i> , 2017, 11, 7608-7614. | 14.6 | 191 |
| 4 | Sub-10 nm Graphene Nanoribbon Array Field-Effect Transistors Fabricated by Block Copolymer Lithography. <i>Advanced Materials</i> , 2013, 25, 4723-4728. | 21.0 | 150 |
| 5 | High-Aspect-Ratio Perpendicular Orientation of PS- <i>b</i> -PDMS Thin Films under Solvent Annealing. <i>ACS Macro Letters</i> , 2012, 1, 1279-1284. | 4.8 | 117 |
| 6 | Assembly of Sub-10-nm Block Copolymer Patterns with Mixed Morphology and Period Using Electron Irradiation and Solvent Annealing. <i>Nano Letters</i> , 2011, 11, 5079-5084. | 9.1 | 113 |
| 7 | Generalization of the Use of Random Copolymers To Control the Wetting Behavior of Block Copolymer Films. <i>Macromolecules</i> , 2008, 41, 9098-9103. | 4.8 | 110 |
| 8 | Nitrogen-Doped Graphene Nanosheets from Bulk Graphite using Microwave Irradiation. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 6361-6368. | 8.0 | 110 |
| 9 | Hierarchical Nanostructures by Sequential Self-Assembly of Styrene- <i>b</i> -Dimethylsiloxane Block Copolymers of Different Periods. <i>Advanced Materials</i> , 2011, 23, 634-639. | 21.0 | 95 |
| 10 | Placement Control of Nanomaterial Arrays on the Surface-Reconstructed Block Copolymer Thin Films. <i>ACS Nano</i> , 2009, 3, 3927-3934. | 14.6 | 91 |
| 11 | Significantly reduced thermal conductivity and enhanced thermoelectric properties of single- and bi-layer graphene nanomeshes with sub-10 nm neck-width. <i>Nano Energy</i> , 2017, 35, 26-35. | 16.0 | 90 |
| 12 | Aligned Sub-10-nm Block Copolymer Patterns Templated by Post Arrays. <i>ACS Nano</i> , 2012, 6, 2071-2077. | 14.6 | 74 |
| 13 | Stretchable Lithium-Ion Battery Based on Re-entrant Micro-honeycomb Electrodes and Cross-Linked Gel Electrolyte. <i>ACS Nano</i> , 2020, 14, 3660-3668. | 14.6 | 74 |
| 14 | 2D reentrant auxetic structures of graphene/CNT networks for omnidirectionally stretchable supercapacitors. <i>Nanoscale</i> , 2017, 9, 13272-13280. | 5.6 | 73 |
| 15 | Reversibly Stretchable, Optically Transparent Radio-Frequency Antennas Based on Wavy Ag Nanowire Networks. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 2582-2590. | 8.0 | 70 |
| 16 | Etching-Assisted Crumpled Graphene Wrapped Spiky Iron Oxide Particles for High-Performance Li-Ion Hybrid Supercapacitor. <i>Small</i> , 2018, 14, e1704209. | 10.0 | 63 |
| 17 | A Top Coat with Solvent Annealing Enables Perpendicular Orientation of Sub-10 nm Microdomains in Si-Containing Block Copolymer Thin Films. <i>Advanced Functional Materials</i> , 2014, 24, 6981-6988. | 14.9 | 62 |
| 18 | Ice-templated Self-assembly of VOPO ₄ -Graphene Nanocomposites for Vertically Porous 3D Supercapacitor Electrodes. <i>Scientific Reports</i> , 2015, 5, 13696. | 3.3 | 60 |

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|----|---|------|-----------|
| 19 | Surfactant-Assisted Orientation of Thin Diblock Copolymer Films. <i>Advanced Materials</i> , 2008, 20, 3643-3648. | 21.0 | 57 |
| 20 | Highly Ordered Square Arrays from a Templated ABC Triblock Terpolymer. <i>Nano Letters</i> , 2011, 11, 2849-2855. | 9.1 | 55 |
| 21 | Sea Urchin-Inspired 3D Crumpled Graphene Balls Using Simultaneous Etching and Reduction Process for High-Density Capacitive Energy Storage. <i>Advanced Functional Materials</i> , 2015, 25, 3606-3614. | 14.9 | 53 |
| 22 | 2D reentrant micro-honeycomb structure of graphene-CNT in polyurethane: High stretchability, superior electrical/thermal conductivity, and improved shape memory properties. <i>Composites Part B: Engineering</i> , 2019, 162, 580-588. | 12.0 | 52 |
| 23 | Floating compression of Ag nanowire networks for effective strain release of stretchable transparent electrodes. <i>Nanoscale</i> , 2015, 7, 16434-16441. | 5.6 | 42 |
| 24 | Buckling Instability Control of 1D Nanowire Networks for a Large Area Stretchable and Transparent Electrode. <i>Advanced Functional Materials</i> , 2020, 30, 1910214. | 14.9 | 42 |
| 25 | Universal perpendicular orientation of block copolymer microdomains using a filtered plasma. <i>Nature Communications</i> , 2019, 10, 2912. | 12.8 | 41 |
| 26 | Directed self-assembly of rhombic carbon nanotube nanomesh films for transparent and stretchable electrodes. <i>Journal of Materials Chemistry C</i> , 2015, 3, 2319-2325. | 5.5 | 39 |
| 27 | Biaxial Stretchability and Transparency of Ag Nanowire 2D Mass-Spring Networks Prepared by Floating Compression. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 10865-10873. | 8.0 | 39 |
| 28 | Spin self-assembly of highly ordered multilayers of graphene-oxide sheets for improving oxygen barrier performance of polyolefin films. <i>Carbon</i> , 2015, 83, 40-47. | 10.3 | 38 |
| 29 | Nitrogen-doped graphene-wrapped iron nanofragments for high-performance oxygen reduction electrocatalysts. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1. | 1.9 | 36 |
| 30 | Short-Chain Polyselenosulfide Copolymers as Cathode Materials for Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 45785-45795. | 8.0 | 36 |
| 31 | Highly thermally conductive and mechanically robust polyamide/graphite nanoplatelet composites via mechanochemical bonding techniques with plasma treatment. <i>Composites Science and Technology</i> , 2018, 160, 245-254. | 7.8 | 35 |
| 32 | Orientation Control of Block Copolymer Thin Films Placed on Ordered Nanoparticle Monolayers. <i>Macromolecules</i> , 2013, 46, 8144-8151. | 4.8 | 28 |
| 33 | FeS ₂ @N-C nanorattles encapsulated in N/S dual-doped graphene/carbon nanotube network composites for high performance and high rate capability anodes of sodium-ion batteries. <i>Chemical Engineering Journal</i> , 2022, 439, 135678. | 12.7 | 28 |
| 34 | Fabrication of a MoS ₂ /Graphene Nanoribbon Heterojunction Network for Improved Thermoelectric Properties. <i>Advanced Materials Interfaces</i> , 2019, 6, 1901333. | 3.7 | 26 |
| 35 | Coaxial struts and microfractured structures of compressible thermoelectric foams for self-powered pressure sensors. <i>Nanoscale</i> , 2018, 10, 18370-18377. | 5.6 | 23 |
| 36 | Highly crumpled graphene nano-networks as electrocatalytic counter electrode in photovoltaics. <i>Applied Catalysis B: Environmental</i> , 2016, 192, 342-349. | 20.2 | 21 |

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|----|---|------|-----------|
| 37 | TopoCoat Dewetting for the Highly Ordered Lateral Alignment of Block Copolymer Microdomains in Thin Films. <i>Advanced Functional Materials</i> , 2015, 25, 913-919. | 14.9 | 20 |
| 38 | Perpendicularly Oriented Block Copolymer Thin Films Induced by Neutral Star Copolymer Nanoparticles. <i>ACS Macro Letters</i> , 2015, 4, 133-137. | 4.8 | 20 |
| 39 | Nickel Nanofoam/Different Phases of Ordered Mesoporous Carbon Composite Electrodes for Superior Capacitive Energy Storage. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 22516-22525. | 8.0 | 20 |
| 40 | Highly Ordered Nanoconfinement Effect from Evaporation-Induced Self-Assembly of Block Copolymers on In Situ Polymerized PEDOT:Tos. <i>ACS Macro Letters</i> , 2017, 6, 386-392. | 4.8 | 19 |
| 41 | Mechanical Fatigue Resistance of Piezoelectric PVDF Polymers. <i>Micromachines</i> , 2018, 9, 503. | 2.9 | 19 |
| 42 | Highly Efficient Large-Area Organic Photovoltaic Module with a 350 nm Thick Active Layer Using a Random Terpolymer Donor. <i>Chemistry of Materials</i> , 2020, 32, 3469-3479. | 6.7 | 19 |
| 43 | Intrinsically Stretchable and Printable Lithium-Ion Battery for Free-Form Configuration. <i>ACS Nano</i> , 2022, 16, 2271-2281. | 14.6 | 19 |
| 44 | Controlled Fabrication of 3D Chiral Microwrinkles via Asymmetrical and Biaxial Bucklings. <i>Advanced Functional Materials</i> , 2019, 29, 1808979. | 14.9 | 18 |
| 45 | The role of graphene patterning in field-effect transistor sensors to detect the tau protein for Alzheimer's disease: Simplifying the immobilization process and improving the performance of graphene-based immunosensors. <i>Biosensors and Bioelectronics</i> , 2021, 192, 113519. | 10.1 | 17 |
| 46 | Highly aligned aramid nanofibrillar nanocomposites for enhanced dynamic mechanical properties. <i>Composites Part B: Engineering</i> , 2022, 229, 109467. | 12.0 | 17 |
| 47 | Shear-Rolling Process for Unidirectionally and Perpendicularly Oriented Sub-10-nm Block Copolymer Patterns on the 4 in Scale. <i>ACS Nano</i> , 2021, 15, 8549-8558. | 14.6 | 16 |
| 48 | Gram-scale synthesis of rGO wrapped porous \pm -Fe ₂ O ₃ as an advanced anode material for Na-ion batteries with superior cyclic stability. <i>Composites Part B: Engineering</i> , 2021, 220, 108995. | 12.0 | 16 |
| 49 | Interfacial Energy-Controlled Top Coats for Gyroid/Cylinder Phase Transitions of Polystyrene- <i>block</i> -polydimethylsiloxane Block Copolymer Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 17427-17434. | 8.0 | 14 |
| 50 | Topcoat-Assisted Perpendicular and Straightly Parallel Coexisting Orientations of Block Copolymer Films. <i>Macromolecular Rapid Communications</i> , 2015, 36, 1261-1266. | 3.9 | 13 |
| 51 | Chiral Magneto-Optical Properties of Supra-Assembled Fe ₃ O ₄ Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 54301-54307. | 8.0 | 11 |
| 52 | Chiral Plasmonic Nanowaves by Tilted Assembly of Unidirectionally Aligned Block Copolymers with Buckling-Induced Microwrinkles. <i>ACS Nano</i> , 2021, 15, 17463-17471. | 14.6 | 10 |
| 53 | Combined epitaxial self-assembly of block copolymer lamellae on a hexagonal pre-pattern within microgrooves. <i>Soft Matter</i> , 2015, 11, 4242-4250. | 2.7 | 9 |
| 54 | Orientation Change of Diblock Copolymer Thin Films by the Addition of Amphiphilic Surfactants: Effect of Film Thickness and Surfactant Concentration. <i>Macromolecules</i> , 2012, 45, 150-158. | 4.8 | 8 |

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|----|---|------|-----------|
| 55 | Improved electrical performance and transparency of bottom-gate, bottom-contact single-walled carbon nanotube transistors using graphene source/drain electrodes. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 81, 488-495. | 5.8 | 8 |
| 56 | Anisotropic Alignment of Bacterial Nanocellulose Ionogels for Unconventionally High Combination of Stiffness and Damping. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 30056-30066. | 8.0 | 5 |
| 57 | Multiple Transfer of Layer-by-Layer Nanofunctional Films by Adhesion Controls. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 48476-48486. | 8.0 | 4 |
| 58 | Plasma-Assisted Mechanochemistry to Covalently Bond Ion-Conducting Polymers to Ni-Rich Cathode Materials for Improved Cyclic Stability and Rate Capability. <i>ACS Applied Energy Materials</i> , 2022, 5, 4808-4816. | 5.1 | 4 |
| 59 | Facile Achievement of Complementary Resistive Switching in Block Copolymer Micelle-Based Resistive Memories. <i>Macromolecular Rapid Communications</i> , 2022, 43, e2100686. | 3.9 | 2 |
| 60 | Field-Effect Transistors: Sub-10 nm Graphene Nanoribbon Array Field-Effect Transistors Fabricated by Block Copolymer Lithography (<i>Adv. Mater.</i> 34/2013). <i>Advanced Materials</i> , 2013, 25, 4682-4682. | 21.0 | 1 |