Hyeong Min Jin

List of Publications by Year in Descending Order

34 papers	1,072 citations	18 h-index	32 g-index
39 ext. papers	1,245 ext. citations	12.5 avg, IF	3.99 L-index

#	Paper	IF	Citations
34	Highly Aligned Carbon Nanowire Array by E-Field Directed Assembly of PAN-Containing Block Copolymers. *ACS Applied Materials & Interfaces*, **2020**, 12, 58113-58121	9.5	3
33	Large-Area Alignment of Supramolecular Columns by Photothermal Laser Writing. *Advanced Materials*, **2020**, 32, e2002620	24	3
32	Smart Nanostructured Materials based on Self-Assembly of Block Copolymers. *Advanced Functional Materials*, **2020**, 30, 1902049	15.6	27
31	Soft crystal martensites: An in situ resonant soft x-ray scattering study of a liquid crystal martensitic transformation. *Science Advances*, **2020**, 6, eaay5986	14.3	11
30	Nanopatterns with a Square Symmetry from an Orthogonal Lamellar Assembly of Block Copolymers. *ACS Applied Materials & Interfaces*, **2019**, 11, 20265-20271	9.5	8
29	Conformal 3D Nanopatterning by Block Copolymer Lithography with Vapor-Phase Deposited Neutral Adlayer. *ACS Nano*, **2019**, 13, 13092-13099	16.7	10
28	Sculpted grain boundaries in soft crystals. *Science Advances*, **2019**, 5, eaax9112	14.3	12
27	Three-Dimensional Silicon Electronic Systems Fabricated by Compressive Buckling Process. *ACS Nano*, **2018**, 12, 4164-4171	16.7	23
26	Laser-Directed Self-Assembly of Highly Aligned Lamellar and Cylindrical Block Copolymer Nanostructures: Experiment and Simulation. *Macromolecules*, **2018**, 51, 1418-1426	5.5	16
25	Perovskite Light-Emitting Diodes via Laser Crystallization: Systematic Investigation on Grain Size Effects for Device Performance. *ACS Applied Materials & Interfaces*, **2018**, 10, 2490-2495	9.5	27
24	Ultralarge Area Sub-10 nm Plasmonic Nanogap Array by Block Copolymer Self-Assembly for Reliable High-Sensitivity SERS. *ACS Applied Materials & Interfaces*, **2018**, 10, 44660-44667	9.5	36
23	2D Nanopatterning: 2D Metal Chalcogenide Nanopatterns by Block Copolymer Lithography (Adv. Funct. Mater. 50/2018). *Advanced Functional Materials*, **2018**, 28, 1870354	15.6	3
22	2D Metal Chalcogenide Nanopatterns by Block Copolymer Lithography. *Advanced Functional Materials*, **2018**, 28, 1804508	15.6	22
21	Controlled Segmentation of Metal Nanowire Array by Block Copolymer Lithography and Reversible Ion Loading. *Small*, **2017**, 13, 1603939	11	14
20	Self-Assembly of Complex Multimetal Nanostructures from Perforated Lamellar Block Copolymer Thin Films. *ACS Applied Materials & Interfaces*, **2017**, 9, 15727-15732	9.5	18
19	Flash Light Millisecond Self-Assembly of High □Block Copolymers for Wafer-Scale Sub-10 nm Nanopatterning. *Advanced Materials*, **2017**, 29, 1700595	24	66
18	Electric field directed self-assembly of block copolymers for rapid formation of large-area complex nanopatterns. *Molecular Systems Design and Engineering*, **2017**, 2, 560-566	4.6	20

17	Single-step self-assembly of multilayer graphene based dielectric nanostructures. *FlatChem*, **2017**, 4, 61-67	5.1	7
16	Bimodal phase separated block copolymer/homopolymer blends self-assembly for hierarchical porous metal nanomesh electrodes. *Nanoscale*, **2017**, 10, 100-108	7.7	11
15	Highly tunable refractive index visible-light metasurface from block copolymer self-assembly. *Nature Communications*, **2016**, 7, 12911	17.4	109
14	3D Tailored Crumpling of Block-Copolymer Lithography on Chemically Modified Graphene. *Advanced Materials*, **2016**, 28, 1591-6	24	46
13	Laser Writing Block Copolymer Self-Assembly on Graphene Light-Absorbing Layer. *ACS Nano*, **2016**, 10, 3435-42	16.7	89
12	Laser Crystallization of Organic-Inorganic Hybrid Perovskite Solar Cells. *ACS Nano*, **2016**, 10, 7907-14	16.7	95
11	Au-Ag core-shell nanoparticle array by block copolymer lithography for synergistic broadband plasmonic properties. *ACS Nano*, **2015**, 9, 5536-43	16.7	112
10	Anomalous rapid defect annihilation in self-assembled nanopatterns by defect melting. *Nano Letters*, **2015**, 15, 1190-6	11.5	31
9	Nanodomain swelling block copolymer lithography for morphology tunable metal nanopatterning. *Small*, **2014**, 10, 3742-9	11	16
8	Electrical biomolecule detection using nanopatterned silicon via block copolymer lithography. *Small*, **2014**, 10, 337-43	11	42
7	Device-oriented graphene nanopatterning by mussel-inspired directed block copolymer self-assembly. *Nanotechnology*, **2014**, 25, 014008	3.4	27
6	Atomic Layer Deposition Assisted Pattern Multiplication of Block Copolymer Lithography for 5 nm Scale Nanopatterning. *Advanced Functional Materials*, **2014**, 24, 4343-4348	15.6	48
5	Negative-tone block copolymer lithography by in situ surface chemical modification. *Small*, **2014**, 10, 4207-12	11	4
4	Flexible and transferrable self-assembled nanopatterning on chemically modified graphene. *Advanced Materials*, **2013**, 25, 1331-5	24	84
3	Large-area, highly oriented lamellar block copolymer nanopatterning directed by graphoepitaxially assembled cylinder nanopatterns. *Journal of Materials Chemistry*, **2012**, 22, 6307		24
2	Self-Assembly Nanofabrication via Mussel-Inspired Interfacial Engineering. *Applied Mechanics and Materials*, **2012**, 229-231, 2749-2752	0.3	
1	Directed high-□block copolymer self-assembly by laser writing on silicon substrate. *Journal of Applied Polymer Science*,52291	2.9	0