

# Hyeong Min Jin

## List of Publications by Citations

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34  
papers

1,072  
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39  
ext. papers

1,245  
ext. citations

12.5  
avg, IF

3.99  
L-index

#	Paper	IF	Citations
34	Au-Ag core-shell nanoparticle array by block copolymer lithography for synergistic broadband plasmonic properties. <i>ACS Nano</i> , <b>2015</b> , 9, 5536-43	16.7	112
33	Highly tunable refractive index visible-light metasurface from block copolymer self-assembly. <i>Nature Communications</i> , <b>2016</b> , 7, 12911	17.4	109
32	Laser Crystallization of Organic-Inorganic Hybrid Perovskite Solar Cells. <i>ACS Nano</i> , <b>2016</b> , 10, 7907-14	16.7	95
31	Laser Writing Block Copolymer Self-Assembly on Graphene Light-Absorbing Layer. <i>ACS Nano</i> , <b>2016</b> , 10, 3435-42	16.7	89
30	Flexible and transferrable self-assembled nanopatterning on chemically modified graphene. <i>Advanced Materials</i> , <b>2013</b> , 25, 1331-5	24	84
29	Flash Light Millisecond Self-Assembly of High [Block Copolymers for Wafer-Scale Sub-10 nm Nanopatterning. <i>Advanced Materials</i> , <b>2017</b> , 29, 1700595	24	66
28	Atomic Layer Deposition Assisted Pattern Multiplication of Block Copolymer Lithography for 5 nm Scale Nanopatterning. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 4343-4348	15.6	48
27	3D Tailored Crumpling of Block-Copolymer Lithography on Chemically Modified Graphene. <i>Advanced Materials</i> , <b>2016</b> , 28, 1591-6	24	46
26	Electrical biomolecule detection using nanopatterned silicon via block copolymer lithography. <i>Small</i> , <b>2014</b> , 10, 337-43	11	42
25	Ultralarge Area Sub-10 nm Plasmonic Nanogap Array by Block Copolymer Self-Assembly for Reliable High-Sensitivity SERS. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 44660-44667	9.5	36
24	Anomalous rapid defect annihilation in self-assembled nanopatterns by defect melting. <i>Nano Letters</i> , <b>2015</b> , 15, 1190-6	11.5	31
23	Perovskite Light-Emitting Diodes via Laser Crystallization: Systematic Investigation on Grain Size Effects for Device Performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 2490-2495	9.5	27
22	Device-oriented graphene nanopatterning by mussel-inspired directed block copolymer self-assembly. <i>Nanotechnology</i> , <b>2014</b> , 25, 014008	3.4	27
21	Smart Nanostructured Materials based on Self-Assembly of Block Copolymers. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1902049	15.6	27
20	Large-area, highly oriented lamellar block copolymer nanopatterning directed by graphoepitaxially assembled cylinder nanopatterns. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 6307		24
19	Three-Dimensional Silicon Electronic Systems Fabricated by Compressive Buckling Process. <i>ACS Nano</i> , <b>2018</b> , 12, 4164-4171	16.7	23
18	2D Metal Chalcogenide Nanopatterns by Block Copolymer Lithography. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1804508	15.6	22

17	Electric field directed self-assembly of block copolymers for rapid formation of large-area complex nanopatterns. <i>Molecular Systems Design and Engineering</i> , <b>2017</b> , 2, 560-566	4.6	20
16	Self-Assembly of Complex Multimetal Nanostructures from Perforated Lamellar Block Copolymer Thin Films. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 15727-15732	9.5	18
15	Laser-Directed Self-Assembly of Highly Aligned Lamellar and Cylindrical Block Copolymer Nanostructures: Experiment and Simulation. <i>Macromolecules</i> , <b>2018</b> , 51, 1418-1426	5.5	16
14	Nanodomain swelling block copolymer lithography for morphology tunable metal nanopatterning. <i>Small</i> , <b>2014</b> , 10, 3742-9	11	16
13	Controlled Segmentation of Metal Nanowire Array by Block Copolymer Lithography and Reversible Ion Loading. <i>Small</i> , <b>2017</b> , 13, 1603939	11	14
12	Sculpted grain boundaries in soft crystals. <i>Science Advances</i> , <b>2019</b> , 5, eaax9112	14.3	12
11	Soft crystal martensites: An in situ resonant soft x-ray scattering study of a liquid crystal martensitic transformation. <i>Science Advances</i> , <b>2020</b> , 6, eaay5986	14.3	11
10	Bimodal phase separated block copolymer/homopolymer blends self-assembly for hierarchical porous metal nanomesh electrodes. <i>Nanoscale</i> , <b>2017</b> , 10, 100-108	7.7	11
9	Conformal 3D Nanopatterning by Block Copolymer Lithography with Vapor-Phase Deposited Neutral Adlayer. <i>ACS Nano</i> , <b>2019</b> , 13, 13092-13099	16.7	10
8	Nanopatterns with a Square Symmetry from an Orthogonal Lamellar Assembly of Block Copolymers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 20265-20271	9.5	8
7	Single-step self-assembly of multilayer graphene based dielectric nanostructures. <i>FlatChem</i> , <b>2017</b> , 4, 61-67	5.1	7
6	Negative-tone block copolymer lithography by in situ surface chemical modification. <i>Small</i> , <b>2014</b> , 10, 4207-12	11	4
5	Highly Aligned Carbon Nanowire Array by E-Field Directed Assembly of PAN-Containing Block Copolymers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 58113-58121	9.5	3
4	Large-Area Alignment of Supramolecular Columns by Photothermal Laser Writing. <i>Advanced Materials</i> , <b>2020</b> , 32, e2002620	24	3
3	2D Nanopatterning: 2D Metal Chalcogenide Nanopatterns by Block Copolymer Lithography (Adv. Funct. Mater. 50/2018). <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1870354	15.6	3
2	Directed high- $\Gamma$ block copolymer self-assembly by laser writing on silicon substrate. <i>Journal of Applied Polymer Science</i> , 52291	2.9	0
1	Self-Assembly Nanofabrication via Mussel-Inspired Interfacial Engineering. <i>Applied Mechanics and Materials</i> , <b>2012</b> , 229-231, 2749-2752	0.3	