

Hyeong Min Jin

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

1,411
citations

361045

20
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344852

36
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39
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docs citations

39
times ranked

2390
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly tunable refractive index visible-light metasurface from block copolymer self-assembly. <i>Nature Communications</i> , 2016, 7, 12911.	5.8	143
2	Au@Ag Core-Shell Nanoparticle Array by Block Copolymer Lithography for Synergistic Broadband Plasmonic Properties. <i>ACS Nano</i> , 2015, 9, 5536-5543.	7.3	130
3	Laser Crystallization of Organic-Inorganic Hybrid Perovskite Solar Cells. <i>ACS Nano</i> , 2016, 10, 7907-7914.	7.3	123
4	Laser Writing Block Copolymer Self-Assembly on Graphene Light-Absorbing Layer. <i>ACS Nano</i> , 2016, 10, 3435-3442.	7.3	102
5	Flexible and Transferrable Self-Assembled Nanopatterning on Chemically Modified Graphene. <i>Advanced Materials</i> , 2013, 25, 1331-1335.	11.1	88
6	Flash Light Millisecond Self-Assembly of High- Γ Block Copolymers for Wafer-Scale Sub-10 nm Nanopatterning. <i>Advanced Materials</i> , 2017, 29, 1700595.	11.1	78
7	Ultralarge Area Sub-10 nm Plasmonic Nanogap Array by Block Copolymer Self-Assembly for Reliable High-Sensitivity SERS. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 44660-44667.	4.0	59
8	3D Tailored Crumpling of Block Copolymer Lithography on Chemically Modified Graphene. <i>Advanced Materials</i> , 2016, 28, 1591-1596.	11.1	58
9	Smart Nanostructured Materials based on Self-Assembly of Block Copolymers. <i>Advanced Functional Materials</i> , 2020, 30, 1902049.	7.8	56
10	Atomic Layer Deposition Assisted Pattern Multiplication of Block Copolymer Lithography for 5 nm Scale Nanopatterning. <i>Advanced Functional Materials</i> , 2014, 24, 4343-4348.	7.8	55
11	Electrical Biomolecule Detection Using Nanopatterned Silicon via Block Copolymer Lithography. <i>Small</i> , 2014, 10, 337-343.	5.2	48
12	2D Metal Chalcogenide Nanopatterns by Block Copolymer Lithography. <i>Advanced Functional Materials</i> , 2018, 28, 1804508.	7.8	41
13	Anomalous Rapid Defect Annihilation in Self-Assembled Nanopatterns by Defect Melting. <i>Nano Letters</i> , 2015, 15, 1190-1196.	4.5	37
14	Three-Dimensional Silicon Electronic Systems Fabricated by Compressive Buckling Process. <i>ACS Nano</i> , 2018, 12, 4164-4171.	7.3	36
15	Block Copolymer Nanopatterning for Nonsemiconductor Device Applications. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 12011-12037.	4.0	36
16	Perovskite Light-Emitting Diodes via Laser Crystallization: Systematic Investigation on Grain Size Effects for Device Performance. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 2490-2495.	4.0	34
17	Device-oriented graphene nanopatterning by mussel-inspired directed block copolymer self-assembly. <i>Nanotechnology</i> , 2014, 25, 014008.	1.3	29
18	Electric field directed self-assembly of block copolymers for rapid formation of large-area complex nanopatterns. <i>Molecular Systems Design and Engineering</i> , 2017, 2, 560-566.	1.7	29

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19	Large-area, highly oriented lamellar block copolymer nanopatterning directed by graphoepitaxially assembled cylinder nanopatterns. <i>Journal of Materials Chemistry</i> , 2012, 22, 6307.	6.7	25
20	Self-Assembly of Complex Multimetal Nanostructures from Perforated Lamellar Block Copolymer Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 15727-15732.	4.0	22
21	Laser-Directed Self-Assembly of Highly Aligned Lamellar and Cylindrical Block Copolymer Nanostructures: Experiment and Simulation. <i>Macromolecules</i> , 2018, 51, 1418-1426.	2.2	21
22	Soft crystal martensites: An in situ resonant soft x-ray scattering study of a liquid crystal martensitic transformation. <i>Science Advances</i> , 2020, 6, eaay5986.	4.7	20
23	Controlled Segmentation of Metal Nanowire Array by Block Copolymer Lithography and Reversible Ion Loading. <i>Small</i> , 2017, 13, 1603939.	5.2	19
24	Nanodomain Swelling Block Copolymer Lithography for Morphology Tunable Metal Nanopatterning. <i>Small</i> , 2014, 10, 3742-3749.	5.2	18
25	Sculpted grain boundaries in soft crystals. <i>Science Advances</i> , 2019, 5, eaax9112.	4.7	18
26	Bimodal phase separated block copolymer/homopolymer blends self-assembly for hierarchical porous metal nanomesh electrodes. <i>Nanoscale</i> , 2018, 10, 100-108.	2.8	17
27	Conformal 3D Nanopatterning by Block Copolymer Lithography with Vapor-Phase Deposited Neutral Adlayer. <i>ACS Nano</i> , 2019, 13, 13092-13099.	7.3	15
28	Nanopatterns with a Square Symmetry from an Orthogonal Lamellar Assembly of Block Copolymers. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 20265-20271.	4.0	13
29	Single-step self-assembly of multilayer graphene based dielectric nanostructures. <i>FlatChem</i> , 2017, 4, 61-67.	2.8	8
30	Large-Area Alignment of Supramolecular Columns by Photothermal Laser Writing. <i>Advanced Materials</i> , 2020, 32, 2002620.	11.1	7
31	Negative-Tone Block Copolymer Lithography by In Situ Surface Chemical Modification. <i>Small</i> , 2014, 10, 4207-4212.	5.2	6
32	Highly Aligned Carbon Nanowire Array by E-Field Directed Assembly of PAN-Containing Block Copolymers. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 58113-58121.	4.0	6
33	2D Nanopatterning: 2D Metal Chalcogenide Nanopatterns by Block Copolymer Lithography (<i>Adv. Funct. Mater.</i>)	7.8	5
34	Directed high- κ block copolymer self-assembly by laser writing on silicon substrate. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	1.3	3
35	Evaluation of nonlinear pre-sampled modulation transfer function in iterative reconstruction CT. , 2013, , .		1
36	Wafer-Scale Unidirectional Alignment of Supramolecular Columns on Faceted Surfaces. <i>ACS Nano</i> , 2021, 15, 11762-11769.	7.3	1

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37	Self-Assembly Nanofabrication via Mussel-Inspired Interfacial Engineering. Applied Mechanics and Materials, 0, 229-231, 2749-2752.	0.2	0