

Shisheng Xiong

List of Publications by Year in descending order

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papers

886
citations

567281

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33
times ranked

1296
citing authors

#	ARTICLE	IF	CITATIONS
1	Sub-10-nm patterning via directed self-assembly of block copolymer films with a vapour-phase deposited topcoat. <i>Nature Nanotechnology</i> , 2017, 12, 575-581.	31.5	155
2	Roadmap on emerging hardware and technology for machine learning. <i>Nanotechnology</i> , 2021, 32, 012002.	2.6	104
3	Directed Self-Assembly of Polystyrene- <i>b</i> -poly(propylene carbonate) on Chemical Patterns via Thermal Annealing for Next Generation Lithography. <i>Nano Letters</i> , 2017, 17, 1233-1239.	9.1	97
4	Evolutionary Optimization of Directed Self-Assembly of Triblock Copolymers on Chemically Patterned Substrates. <i>ACS Macro Letters</i> , 2014, 3, 747-752.	4.8	64
5	Directed Self-Assembly of Triblock Copolymer on Chemical Patterns for Sub-10-nm Nanofabrication via Solvent Annealing. <i>ACS Nano</i> , 2016, 10, 7855-7865.	14.6	62
6	Free-Standing, Patternable Nanoparticle/Polymer Monolayer Arrays Formed by Evaporation Induced Self-Assembly at a Fluid Interface. <i>Journal of the American Chemical Society</i> , 2008, 130, 3284-3285.	13.7	61
7	Quantitative Three-Dimensional Characterization of Block Copolymer Directed Self-Assembly on Combined Chemical and Topographical Prepatterned Templates. <i>ACS Nano</i> , 2017, 11, 1307-1319.	14.6	43
8	Pathways to Mesoporous Resin/Carbon Thin Films with Alternating Gyroid Morphology. <i>ACS Nano</i> , 2018, 12, 347-358.	14.6	35
9	Directed self-assembly of block copolymers for sub-10 nm fabrication. <i>International Journal of Extreme Manufacturing</i> , 2020, 2, 032006.	12.7	35
10	Revealing the Interfacial Self-Assembly Pathway of Large-Scale, Highly-Ordered, Nanoparticle/Polymer Monolayer Arrays at an Air/Water Interface. <i>Nano Letters</i> , 2013, 13, 1041-1046.	9.1	22
11	Boundary-directed epitaxy of block copolymers. <i>Nature Communications</i> , 2020, 11, 4151.	12.8	22
12	Directed self-assembly of block copolymer films on atomically-thin graphene chemical patterns. <i>Scientific Reports</i> , 2016, 6, 31407.	3.3	20
13	The Solvent Distribution Effect on the Self-Assembly of Symmetric Triblock Copolymers during Solvent Vapor Annealing. <i>Macromolecules</i> , 2018, 51, 7145-7151.	4.8	20
14	CO ₂ -Based Dual-Tone Resists for Electron Beam Lithography. <i>Advanced Functional Materials</i> , 2021, 31, 2007417.	14.9	20
15	Directed self-assembly of high- χ block copolymer for nano fabrication of bit patterned media via solvent annealing. <i>Nanotechnology</i> , 2016, 27, 415601.	2.6	19
16	InAs Nanowires Grown by Metal-Organic Vapor-Phase Epitaxy (MOVPE) Employing PS/PMMA Diblock Copolymer Nanopatterning. <i>Nano Letters</i> , 2013, 13, 5979-5984.	9.1	15
17	Fabrication of Nanodevices Through Block Copolymer Self-Assembly. <i>Frontiers in Nanotechnology</i> , 2022, 4, .	4.8	15
18	Integration of a Close-Packed Quantum Dot Monolayer with a Photonic Crystal Cavity Via Interfacial Self-Assembly and Transfer. <i>Small</i> , 2010, 6, 2126-2129.	10.0	13

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19	Dewettingâ€Assisted Patterning of Organic Semiconductors for Microâ€OLED Arrays with a Pixel Size of 1Åµm. <i>Small Methods</i> , 2022, 6, e2101509.	8.6	12
20	Transformation of a Close-Packed Au Nanoparticle/Polymer Monolayer into a Large Area Array of Oriented Au Nanowires via E-beam Promoted Uniaxial Deformation and Room Temperature Sintering. <i>Journal of the American Chemical Society</i> , 2011, 133, 11410-11413.	13.7	10
21	Highly Luminescent and Patternable Block Copolymer Templated 3D Perovskite Films. <i>Advanced Materials Technologies</i> , 2021, 6, 2001209.	5.8	10
22	The Oneâ€Pot Directed Assembly of Cylinderâ€Forming Block Copolymer on Adjacent Chemical Patterns for Bimodal Patterning. <i>Macromolecular Rapid Communications</i> , 2017, 38, 1700285.	3.9	9
23	Combining double patterning with self-assembled block copolymer lamellae to fabricate 10.5 nm full-pitch line/space patterns. <i>Nanotechnology</i> , 2019, 30, 455302.	2.6	8
24	Nanotube network arrays with nickel oxide canopies as flexible high-energy anodes for lithium storage. <i>Journal of Alloys and Compounds</i> , 2020, 847, 156366.	5.5	4
25	A method of improving spatial resolution in X-ray fluorescence holography. <i>Optik</i> , 2003, 114, 317-321.	2.9	2
26	Removing twin images in X-ray fluorescence holography. <i>Optics Communications</i> , 2004, 229, 123-129.	2.1	2
27	Enhanced microphase separation of thin films of low molecular weight block copolymer by the addition of an ionic liquid. <i>Soft Matter</i> , 2019, 15, 9991-9996.	2.7	2
28	Co decoration of molybdenum sulfide and carbon for improving lithium ion capacity of large monolayer MXene cathodes. <i>Journal of Alloys and Compounds</i> , 2022, 902, 163702.	5.5	2
29	Sub-10 nm silicon FinFET devices on SOI substrate made by block copolymer lithography. , 2018, , .		1
30	Three-Dimensional PrGO-Based Sandwich Composites With MoS2 Flowers as Stuffings for Superior Lithium Storage. <i>Frontiers in Chemistry</i> , 2020, 8, 94.	3.6	1
31	Electron Beam Lithography: CO ₂ -Based Dualâ€Tone Resists for Electron Beam Lithography (<i>Adv. Funct. Mater.</i> 13/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170086.	14.9	1
32	Self-Aligned Assembly of a Poly(2-vinylpyridine)-b-Polystyrene-b-Poly(2-vinylpyridine) Triblock Copolymer on Graphene Nanoribbons. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 41190-41199.	8.0	0
33	MonkeyPosekit: Automated Markerless 2D Pose Estimation of Monkey. , 2021, , .		0