Woon Ik Park

List of Publications by Year
in descending order

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Version: 2024-02-01

59 papers	1,677 citations	361296 20 h-index	289141 40 g-index
60 all docs	60 docs citations	60 times ranked	2550 citing authors

#	Article	IF	Citations
1	Enabling the Selective Detection of Endocrine-Disrupting Chemicals via Molecularly Surface-Imprinted â€œCoffee Ringsâ€• Biomacromolecules, 2021, 22, 1523-1531.	2.6	6
2	Formation of Li2CO3 Nanostructures for Lithium-Ion Battery Anode Application by Nanotransfer Printing. Materials, 2021, 14, 1585.	1.3	0
3	Folic Acid Functionalized Carbon Dot/Polypyrrole Nanoparticles for Specific Bioimaging and Photothermal Therapy. ACS Applied Bio Materials, 2021, 4, 3453-3461.	2.3	21
4	Extreme-Pressure Imprint Lithography for Heat and Ultraviolet-Free Direct Patterning of Rigid Nanoscale Features. ACS Nano, 2021, 15, 10464-10471.	7.3	10
5	Molecular imprinting of hemispherical pore-structured thin films via colloidal lithography for gaseous formaldehyde Gravimetric sensing. Applied Surface Science, 2021, 570, 151161.	3.1	11
6	Topographically designed hybrid nanostructuresviananotransfer printing and block copolymer self-assembly. Nanoscale, 2021, 13, 11161-11168.	2.8	5
7	Controlled self-assembly of block copolymers in printed sub-20 nm cross-bar structures. Nanoscale Advances, 2021, 3, 5083-5089.	2.2	4
8	Switchingâ€Modulated Phase Change Memory Realized by Siâ€Containing Block Copolymers. Small, 2021, 17, e2105078.	5.2	5
9	Formation of Surface-Wrinkled Metal Nanosheets via Thermally Assisted Nanotransfer Printing. Journal of Korean Institute of Metals and Materials, 2021, 59, 880-885.	0.4	0
10	Rotating Cylinderâ€Assisted Nanoimprint Lithography for Enhanced Chemisorbable Filtration Complemented by Molecularly Imprinted Polymers. Small, 2021, 17, e2105733.	5.2	6
11	Improved formaldehyde gas sensing properties of well-controlled Au nanoparticle-decorated In2O3 nanofibers integrated on low power MEMS platform. Journal of Materials Science and Technology, 2020, 38, 56-63.	5.6	38
12	Thermally assisted nanotransfer printing with subâ€“20-nm resolution and 8-inch wafer scalability. Science Advances, 2020, 6, eabb6462.	4.7	35
13	Hierarchically ordered hybrid nanostructures via spontaneous self-assembly of block copolymer blends. Thin Solid Films, 2020, 701, 137928.	0.8	1
14	Lithography-Free Route to Hierarchical Structuring of High-Ï‡ Block Copolymers on a Gradient Patterned Surface. Materials, 2020, 13, 304.	1.3	0
15	Pattern Transfer Printing by Controlling the Deposition Angle to Form Various Patterns. Journal of Korean Institute of Metals and Materials, 2020, 58, 145-150.	0.4	1
16	Individual Confinement of Block Copolymer Microdomains in Nanoscale Crossbar Templates. Advanced Functional Materials, 2019, 29, 1805795.	7.8	12
17	Pattern formation of metalâ€“oxide hybrid nanostructures via the self-assembly of di-block copolymer blends. Nanoscale, 2019, 11, 18559-18567.	2.8	15
18	Assembly Mechanism and the Morphological Analysis of the Robust Superhydrophobic Surface. Coatings, 2019, 9, 472.	1.2	5

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19	Optical analysis of a transparent slippery surface by controlling the refractive index of the porous structure. Journal of Applied Physics, 2019, 126, .	1.1	2
20	Rapid and Cyclable Morphology Transition of High-Ï‡ Block Copolymers via Solvent Vapor-Immersion Annealing for Nanoscale Lithography. ACS Applied Nano Materials, 2019, 2, 1294-1301.	2.4	11
21	Spatially Ordered Poly(3â€hexylthiophene) Fibril Nanostructures via Controlled Evaporative Selfâ€Assembly. Advanced Materials Technologies, 2019, 4, 1800554.	3.0	12
22	Hierarchical multi-level block copolymer patterns by multiple self-assembly. Nanoscale, 2019, 11, 8433-8441.	2.8	22
23	Improved Moisture Stability of Perovskite Solar Cells with a Surfaceâ€Treated PCBM Layer. Solar Rrl, 2019, 3, 1800289.	3.1	20
24	Synchronized-pressing fabrication of cost-efficient crystalline perovskite solar cells via intermediate engineering. Nanoscale, 2018, 10, 9628-9633.	2.8	8
25	Circular Doubleâ€Patterning Lithography Using a Block Copolymer Template and Atomic Layer Deposition. Advanced Materials Interfaces, 2018, 5, 1800054.	1.9	8
26	Enhanced self-assembly of block copolymers by surface modification of a guiding template. Polymer Journal, 2018, 50, 221-229.	1.3	1
27	Preparation of Waterâ€Soluble CsPbBr₃ Perovskite Quantum Dot Nanocomposites via Encapsulation into Amphiphilic Copolymers. ChemistrySelect, 2018, 3, 11320-11325.	0.7	16
28	Atomic Layer Deposition: Circular Double-Patterning Lithography Using a Block Copolymer Template and Atomic Layer Deposition (Adv. Mater. Interfaces 16/2018). Advanced Materials Interfaces, 2018, 5, 1870078.	1.9	0
29	Thermodynamic and Kinetic Tuning of Block Copolymer Based on Random Copolymerization for Highâ€Quality Subâ€6 nm Pattern Formation. Advanced Functional Materials, 2018, 28, 1800765.	7.8	23
30	Area-Selective Lift-Off Mechanism Based on Dual-Triggered Interfacial Adhesion Switching: Highly Facile Fabrication of Flexible Nanomesh Electrode. ACS Nano, 2017, 11, 3506-3516.	7.3	33
31	Dual spectra band emissive Eu²⁺/Mn²⁺co-activated alkaline earth phosphates for indoor plant growth novel phosphor converted-LEDs. Physical Chemistry Chemical Physics, 2017, 19, 11111-11119.	1.3	38
32	Electrical properties of copper-nickel manganite thin films prepared by metal-organic decomposition. Ceramics International, 2017, 43, 9291-9295.	2.3	6
33	Surfaceâ€Shielding Nanostructures Derived from Selfâ€Assembled Block Copolymers Enable Reliable Plasma Doping for Fewâ€Layer Transition Metal Dichalcogenides. Advanced Functional Materials, 2016, 26, 5631-5640.	7.8	19
34	Eu²⁺-Activated Phase-Pure Oxonitridosilicate Phosphor in a Baâ€“Siâ€“Oâ€“N System via Facile Silicate-Assisted Routes Designed by First-Principles Thermodynamic Simulation. Inorganic Chemistry, 2016, 55, 8750-8757.	1.9	14
35	Ultra-rapid pattern formation of block copolymers with a high-Ï‡ parameter in immersion annealing induced by a homopolymer. RSC Advances, 2016, 6, 21105-21110.	1.7	5
36	Effect of ozone pulse time on the properties of the thin-film amorphous-silicon solar cell with atomic-layer-deposited V2O5-x films as the hole-transporting layer. Current Applied Physics, 2016, 16, 245-250.	1.1	1

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37	Current-Voltage and Impedance Characteristics of ZnO-Zn2BiVO6-Co3O4Varistor with Temperature. Journal of Sensor Science and Technology, 2016, 25, 440-446.	0.1	0
38	Mechanical Removal and Rescreening of Local Screening Charges at Ferroelectric Surfaces. Physical Review Applied, 2015, 3, .	1.5	21
39	Eliminating the Tradeâ€Off between the Throughput and Pattern Quality of Subâ€15 nm Directed Selfâ€Assembly via Warm Solvent Annealing. Advanced Functional Materials, 2015, 25, 306-315.	7.8	49
40	Hierarchically Self-Assembled Block Copolymer Blends for Templating Hollow Phase-Change Nanostructures with an Extremely Low Switching Current. Chemistry of Materials, 2015, 27, 2673-2677.	3.2	11
41	Flexible One Diode-One Phase Change Memory Array Enabled by Block Copolymer Self-Assembly. ACS Nano, 2015, 9, 4120-4128.	7.3	74
42	Enhancing the Directed Self-assembly Kinetics of Block Copolymers Using Binary Solvent Mixtures. ACS Applied Materials & Interfaces, 2015, 7, 25843-25850.	4.0	18
43	Bipolar resistance switching in Pt/CuOx/Pt via local electrochemical reduction. Applied Physics Letters, 2014, 104, .	1.5	19
44	Charge gradient microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 6566-6569.	3.3	44
45	Tunable and rapid self-assembly of block copolymers using mixed solvent vapors. Nanoscale, 2014, 6, 15216-15221.	2.8	27
46	Reliable Control of Filament Formation in Resistive Memories by Self-Assembled Nanoinsulators Derived from a Block Copolymer. ACS Nano, 2014, 8, 9492-9502.	7.3	93
47	Deep-Nanoscale Pattern Engineering by Immersion-Induced Self-Assembly. ACS Nano, 2014, 8, 10009-10018.	7.3	46
48	Proximity Injection of Plasticizing Molecules to Self-Assembling Polymers for Large-Area, Ultrafast Nanopatterning in the Sub-10-nm Regime. ACS Nano, 2013, 7, 6747-6757.	7.3	70
49	Host-Guest Self-assembly in Block Copolymer Blends. Scientific Reports, 2013, 3, 3190.	1.6	34
50	Localized surface plasmon-enhanced nanosensor platform using dual-responsive polymer nanocomposites. Nanoscale, 2013, 5, 7403.	2.8	16
51	Self-Assembled Incorporation of Modulated Block Copolymer Nanostructures in Phase-Change Memory for Switching Power Reduction. ACS Nano, 2013, 7, 2651-2658.	7.3	74
52	Current density enhancement nano-contact phase-change memory for low writing current. Applied Physics Letters, 2013, 103, .	1.5	8
53	Low Power Phase Change Memory via Block Copolymer Self-assembly Technology. Materials Research Society Symposia Proceedings, 2013, 1556, 1.	0.1	0
54	Uniform Graphene Quantum Dots Patterned from Self-Assembled Silica Nanodots. Nano Letters, 2012, 12, 6078-6083.	4.5	186

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55	Self-Assembly-Induced Formation of High-Density Silicon Oxide Memristor Nanostructures on Graphene and Metal Electrodes. Nano Letters, 2012, 12, 1235-1240.	4.5	89
56	Directed Selfâ€Assembly with Subâ€100 Degrees Celsius Processing Temperature, Subâ€10 Nanometer Resolution, and Subâ€1 Minute Assembly Time. Small, 2012, 8, 3762-3768.	5.2	81
57	Nanotransfer Printing with subâ€10 nm Resolution Realized using Directed Selfâ€Assembly. Advanced Materials, 2012, 24, 3526-3531.	11.1	91
58	Highly Tunable Self-Assembled Nanostructures from a Poly(2-vinylpyridine-b-dimethylsiloxane) Block Copolymer. Nano Letters, 2011, 11, 4095-4101.	4.5	202
59	Ring Contact Electrode Process for High Density Phase Change Random Access Memory. Japanese Journal of Applied Physics, 2007, 46, 2001-2005.	0.8	10