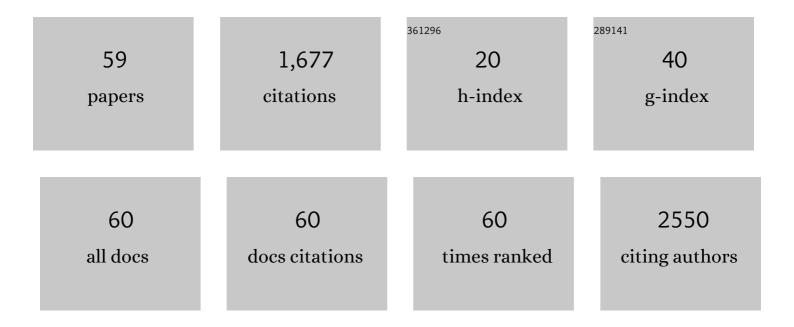
Woon Ik Park

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Highly Tunable Self-Assembled Nanostructures from a Poly(2-vinylpyridine- <i>b</i> -dimethylsiloxane) Block Copolymer. Nano Letters, 2011, 11, 4095-4101.	4.5	202
2	Uniform Graphene Quantum Dots Patterned from Self-Assembled Silica Nanodots. Nano Letters, 2012, 12, 6078-6083.	4.5	186
3	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
4	Nanotransfer Printing with subâ€10 nm Resolution Realized using Directed Selfâ€Assembly. Advanced Materials, 2012, 24, 3526-3531.	11.1	91
5	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
6	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
7	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
8	Flexible One Diode-One Phase Change Memory Array Enabled by Block Copolymer Self-Assembly. ACS Nano, 2015, 9, 4120-4128.	7.3	74
9	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
10	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
11	Deep-Nanoscale Pattern Engineering by Immersion-Induced Self-Assembly. ACS Nano, 2014, 8, 10009-10018.	7.3	46
12	Charge gradient microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 6566-6569.	3.3	44
13	Dual spectra band emissive Eu ²⁺ /Mn ²⁺ co-activated alkaline earth phosphates for indoor plant growth novel phosphor converted-LEDs. Physical Chemistry Chemical Physics, 2017, 19, 11111-11119.	1.3	38
14	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
15	Thermally assisted nanotransfer printing with sub–20-nm resolution and 8-inch wafer scalability. Science Advances, 2020, 6, eabb6462.	4.7	35
16	Host-Guest Self-assembly in Block Copolymer Blends. Scientific Reports, 2013, 3, 3190.	1.6	34
17	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
18	Tunable and rapid self-assembly of block copolymers using mixed solvent vapors. Nanoscale, 2014, 6, 15216-15221.	2.8	27

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19	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
20	Hierarchical multi-level block copolymer patterns by multiple self-assembly. Nanoscale, 2019, 11, 8433-8441.	2.8	22
21	Mechanical Removal and Rescreening of Local Screening Charges at Ferroelectric Surfaces. Physical Review Applied, 2015, 3, .	1.5	21
22	Folic Acid Functionalized Carbon Dot/Polypyrrole Nanoparticles for Specific Bioimaging and Photothermal Therapy. ACS Applied Bio Materials, 2021, 4, 3453-3461.	2.3	21
23	Improved Moisture Stability of Perovskite Solar Cells with a Surfaceâ€Treated PCBM Layer. Solar Rrl, 2019, 3, 1800289.	3.1	20
24	Bipolar resistance switching in Pt/CuOx/Pt via local electrochemical reduction. Applied Physics Letters, 2014, 104, .	1.5	19
25	Surfaceâ€6hielding Nanostructures Derived from Selfâ€Assembled Block Copolymers Enable Reliable Plasma Doping for Few‣ayer Transition Metal Dichalcogenides. Advanced Functional Materials, 2016, 26, 5631-5640.	7.8	19
26	Enhancing the Directed Self-assembly Kinetics of Block Copolymers Using Binary Solvent Mixtures. ACS Applied Materials & Interfaces, 2015, 7, 25843-25850.	4.0	18
27	Localized surface plasmon-enhanced nanosensor platform using dual-responsive polymer nanocomposites. Nanoscale, 2013, 5, 7403.	2.8	16
28	Preparation of Waterâ€Soluble CsPbBr ₃ Perovskite Quantum Dot Nanocomposites via Encapsulation into Amphiphilic Copolymers. ChemistrySelect, 2018, 3, 11320-11325.	0.7	16
29	Pattern formation of metal–oxide hybrid nanostructures via the self-assembly of di-block copolymer blends. Nanoscale, 2019, 11, 18559-18567.	2.8	15
30	Eu ²⁺ -Activated Phase-Pure Oxonitridosilicate Phosphor in a Ba–Si–O–N System via Facile Silicate-Assisted Routes Designed by First-Principles Thermodynamic Simulation. Inorganic Chemistry, 2016, 55, 8750-8757.	1.9	14
31	Individual Confinement of Block Copolymer Microdomains in Nanoscale Crossbar Templates. Advanced Functional Materials, 2019, 29, 1805795.	7.8	12
32	Spatially Ordered Poly(3â€hexylthiophene) Fibril Nanostructures via Controlled Evaporative Selfâ€Assembly. Advanced Materials Technologies, 2019, 4, 1800554.	3.0	12
33	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
34	Rapid and Cyclable Morphology Transition of High-χ Block Copolymers via Solvent Vapor-Immersion Annealing for Nanoscale Lithography. ACS Applied Nano Materials, 2019, 2, 1294-1301.	2.4	11
35	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
36	Ring Contact Electrode Process for High Density Phase Change Random Access Memory. Japanese Journal of Applied Physics, 2007, 46, 2001-2005.	0.8	10

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37	Extreme-Pressure Imprint Lithography for Heat and Ultraviolet-Free Direct Patterning of Rigid Nanoscale Features. ACS Nano, 2021, 15, 10464-10471.	7.3	10
38	Current density enhancement nano-contact phase-change memory for low writing current. Applied Physics Letters, 2013, 103, .	1.5	8
39	Synchronized-pressing fabrication of cost-efficient crystalline perovskite solar cells <i>via</i> intermediate engineering. Nanoscale, 2018, 10, 9628-9633.	2.8	8
40	Circular Doubleâ€Patterning Lithography Using a Block Copolymer Template and Atomic Layer Deposition. Advanced Materials Interfaces, 2018, 5, 1800054.	1.9	8
41	Electrical properties of copper-nickel manganite thin films prepared by metal-organic decomposition. Ceramics International, 2017, 43, 9291-9295.	2.3	6
42	Enabling the Selective Detection of Endocrine-Disrupting Chemicals via Molecularly Surface-Imprinted "Coffee Rings― Biomacromolecules, 2021, 22, 1523-1531.	2.6	6
43	Rotating Cylinderâ€Assisted Nanoimprint Lithography for Enhanced Chemisorbable Filtration Complemented by Molecularly Imprinted Polymers. Small, 2021, 17, e2105733.	5.2	6
44	Ultra-rapid pattern formation of block copolymers with a high-χ parameter in immersion annealing induced by a homopolymer. RSC Advances, 2016, 6, 21105-21110.	1.7	5
45	Assembly Mechanism and the Morphological Analysis of the Robust Superhydrophobic Surface. Coatings, 2019, 9, 472.	1.2	5
46	Topographically designed hybrid nanostructures <i>via</i> nanotransfer printing and block copolymer self-assembly. Nanoscale, 2021, 13, 11161-11168.	2.8	5
47	Switchingâ€Modulated Phase Change Memory Realized by Siâ€Containing Block Copolymers. Small, 2021, 17, e2105078.	5.2	5
48	Controlled self-assembly of block copolymers in printed sub-20 nm cross-bar structures. Nanoscale Advances, 2021, 3, 5083-5089.	2.2	4
49	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
50	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
51	Enhanced self-assembly of block copolymers by surface modification of a guiding template. Polymer Journal, 2018, 50, 221-229.	1.3	1
52	Hierarchically ordered hybrid nanostructures via spontaneous self-assembly of block copolymer blends. Thin Solid Films, 2020, 701, 137928.	0.8	1
53	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
54	Low Power Phase Change Memory via Block Copolymer Self-assembly Technology. Materials Research Society Symposia Proceedings, 2013, 1556, 1.	0.1	0

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55	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
56	Lithography-Free Route to Hierarchical Structuring of High-χ Block Copolymers on a Gradient Patterned Surface. Materials, 2020, 13, 304.	1.3	0
57	Formation of Li2CO3 Nanostructures for Lithium-Ion Battery Anode Application by Nanotransfer Printing. Materials, 2021, 14, 1585.	1.3	Ο
58	Current-Voltage and Impedance Characteristics of ZnO-Zn2BiVO6-Co3O4Varistor with Temperature. Journal of Sensor Science and Technology, 2016, 25, 440-446.	0.1	0
59	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