

# Bong Hoon Kim

## List of Publications by Citations

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75  
papers

6,021  
citations

40  
h-index

77  
g-index

83  
ext. papers

6,978  
ext. citations

14.7  
avg, IF

5.15  
L-index

#	Paper	IF	Citations
75	Waterproof AlInGaP optoelectronics on stretchable substrates with applications in biomedicine and robotics. <i>Nature Materials</i> , <b>2010</b> , 9, 929-37	27	474
74	Binodal, wireless epidermal electronic systems with in-sensor analytics for neonatal intensive care. <i>Science</i> , <b>2019</b> , 363,	33.3	316
73	Bioresorbable silicon electronics for transient spatiotemporal mapping of electrical activity from the cerebral cortex. <i>Nature Materials</i> , <b>2016</b> , 15, 782-791	27	296
72	High-performance biodegradable/transient electronics on biodegradable polymers. <i>Advanced Materials</i> , <b>2014</b> , 26, 3905-11	24	283
71	Stretchable, transparent graphene interconnects for arrays of microscale inorganic light emitting diodes on rubber substrates. <i>Nano Letters</i> , <b>2011</b> , 11, 3881-6	11.5	281
70	High-resolution patterns of quantum dots formed by electrohydrodynamic jet printing for light-emitting diodes. <i>Nano Letters</i> , <b>2015</b> , 15, 969-73	11.5	278
69	Self-assembled three dimensional network designs for soft electronics. <i>Nature Communications</i> , <b>2017</b> , 8, 15894	17.4	238
68	A wireless closed-loop system for optogenetic peripheral neuromodulation. <i>Nature</i> , <b>2019</b> , 565, 361-365	50.4	217
67	Vertical ZnO nanowires/graphene hybrids for transparent and flexible field emission. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 3432-3437		216
66	Directed self-assembly of block copolymers for next generation nanolithography. <i>Materials Today</i> , <b>2013</b> , 16, 468-476	21.8	212
65	Battery-free, wireless sensors for full-body pressure and temperature mapping. <i>Science Translational Medicine</i> , <b>2018</b> , 10,	17.5	176
64	Dissolution Behaviors and Applications of Silicon Oxides and Nitrides in Transient Electronics. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 4427-4434	15.6	170
63	Mussel-inspired block copolymer lithography for low surface energy materials of teflon, graphene, and gold. <i>Advanced Materials</i> , <b>2011</b> , 23, 5618-22	24	167
62	Double-heterojunction nanorod light-responsive LEDs for display applications. <i>Science</i> , <b>2017</b> , 355, 616-619	39.3	157
61	Soft graphoepitaxy of block copolymer assembly with disposable photoresist confinement. <i>Nano Letters</i> , <b>2009</b> , 9, 2300-5	11.5	134
60	Universal Block Copolymer Lithography for Metals, Semiconductors, Ceramics, and Polymers. <i>Advanced Materials</i> , <b>2008</b> , 20, 1898-1904	24	130
59	Surface energy modification by spin-cast, large-area graphene film for block copolymer lithography. <i>ACS Nano</i> , <b>2010</b> , 4, 5464-70	16.7	122

58	Highly tunable refractive index visible-light metasurface from block copolymer self-assembly. <i>Nature Communications</i> , <b>2016</b> , 7, 12911	17.4	109
57	Soft, thin skin-mounted power management systems and their use in wireless thermography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 6131-6	11.5	108
56	One-dimensional metal nanowire assembly via block copolymer soft graphoepitaxy. <i>Nano Letters</i> , <b>2010</b> , 10, 3500-5	11.5	96
55	Laser Writing Block Copolymer Self-Assembly on Graphene Light-Absorbing Layer. <i>ACS Nano</i> , <b>2016</b> , 10, 3435-42	16.7	89
54	Materials and designs for wirelessly powered implantable light-emitting systems. <i>Small</i> , <b>2012</b> , 8, 2812-8	11	88
53	Ultralarge-area block copolymer lithography enabled by disposable photoresist prepatterning. <i>ACS Nano</i> , <b>2010</b> , 4, 5181-6	16.7	87
52	Multilayer Transfer Printing for Pixelated, Multicolor Quantum Dot Light-Emitting Diodes. <i>ACS Nano</i> , <b>2016</b> , 10, 4920-5	16.7	85
51	Flexible and transferrable self-assembled nanopatterning on chemically modified graphene. <i>Advanced Materials</i> , <b>2013</b> , 25, 1331-5	24	84
50	Multimodal Sensing with a Three-Dimensional Piezoresistive Structure. <i>ACS Nano</i> , <b>2019</b> , 13, 10972-10979	16.7	75
49	Hierarchical Self-Assembly of Block Copolymers for Lithography-Free Nanopatterning. <i>Advanced Materials</i> , <b>2008</b> , 20, 2303-2307	24	72
48	Freestanding 3D Mesostructures, Functional Devices, and Shape-Programmable Systems Based on Mechanically Induced Assembly with Shape Memory Polymers. <i>Advanced Materials</i> , <b>2019</b> , 31, e1805615	24	72
47	Soft, Skin-Interfaced Microfluidic Systems with Wireless, Battery-Free Electronics for Digital, Real-Time Tracking of Sweat Loss and Electrolyte Composition. <i>Small</i> , <b>2018</b> , 14, e1802876	11	66
46	Development of a neural interface for high-definition, long-term recording in rodents and nonhuman primates. <i>Science Translational Medicine</i> , <b>2020</b> , 12,	17.5	64
45	Novel Complex Nanostructure from Directed Assembly of Block Copolymers on Incommensurate Surface Patterns. <i>Advanced Materials</i> , <b>2007</b> , 19, 3271-3275	24	63
44	Biological lipid membranes for on-demand, wireless drug delivery from thin, bioresorbable electronic implants. <i>NPG Asia Materials</i> , <b>2015</b> , 7,	10.3	61
43	Block copolymer multiple patterning integrated with conventional ArF lithography. <i>Soft Matter</i> , <b>2010</b> , 6, 120-125	3.6	60
42	Defect Structure in Thin Films of a Lamellar Block Copolymer Self-Assembled on Neutral Homogeneous and Chemically Nanopatterned Surfaces. <i>Macromolecules</i> , <b>2006</b> , 39, 5466-5470	5.5	60
41	Spontaneous Lamellar Alignment in Thickness-Modulated Block Copolymer Films. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 2584-2591	15.6	59

40	Directed self-assembly of block copolymers for universal nanopatterning. <i>Soft Matter</i> , <b>2013</b> , 9, 2780	3.6	54
39	Natural Wax for Transient Electronics. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1801819	15.6	50
38	3D Tailored Crumpling of Block-Copolymer Lithography on Chemically Modified Graphene. <i>Advanced Materials</i> , <b>2016</b> , 28, 1591-6	24	46
37	Electric Actuation of Nanostructured Thermoplastic Elastomer Gels with Ultralarge Electrostriction Coefficients. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 3242-3249	15.6	44
36	One-Dimensional Nanoassembly of Block Copolymers Tailored by Chemically Patterned Surfaces. <i>Macromolecules</i> , <b>2009</b> , 42, 1189-1193	5.5	41
35	Ferromagnetic, folded electrode composite as a soft interface to the skin for long-term electrophysiological recording. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 7281-7290	15.6	40
34	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
33	Materials and Wireless Microfluidic Systems for Electronics Capable of Chemical Dissolution on Demand. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 1338-1343	15.6	34
32	Wrinkle-directed self-assembly of block copolymers for aligning of nanowire arrays. <i>Advanced Materials</i> , <b>2014</b> , 26, 4665-70	24	34
31	Fabrication of Luminescent Nanoarchitectures by Electron Irradiation of Polystyrene. <i>Advanced Materials</i> , <b>2008</b> , 20, 2094-2098	24	34
30	Wireless Microfluidic Systems for Programmed, Functional Transformation of Transient Electronic Devices. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 5100-5106	15.6	32
29	Anomalous rapid defect annihilation in self-assembled nanopatterns by defect melting. <i>Nano Letters</i> , <b>2015</b> , 15, 1190-6	11.5	31
28	Three-dimensional electronic microfliers inspired by wind-dispersed seeds. <i>Nature</i> , <b>2021</b> , 597, 503-510	50.4	28
27	Dry Transient Electronic Systems by Use of Materials that Sublime. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1606008	15.6	27
26	Mechanically Guided Post-Assembly of 3D Electronic Systems. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1803149	15.6	26
25	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
24	Three-Dimensional Silicon Electronic Systems Fabricated by Compressive Buckling Process. <i>ACS Nano</i> , <b>2018</b> , 12, 4164-4171	16.7	23
23	Protein nanoarrays on a highly-oriented lamellar surface. <i>Chemical Communications</i> , <b>2010</b> , 46, 1911-3	5.8	22

22	Battery-free, wireless soft sensors for continuous multi-site measurements of pressure and temperature from patients at risk for pressure injuries. <i>Nature Communications</i> , <b>2021</b> , 12, 5008	17.4	21
21	Flexible and implantable capacitive microelectrode for bio-potential acquisition. <i>Biochip Journal</i> , <b>2017</b> , 11, 153-163	4	20
20	Fractal Web Design of a Hemispherical Photodetector Array with Organic-Dye-Sensitized Graphene Hybrid Composites. <i>Advanced Materials</i> , <b>2020</b> , 32, e2004456	24	12
19	Spin coating nanopatterned multielemental materials via self-assembled nanotemplates. <i>Nanotechnology</i> , <b>2009</b> , 20, 225301	3.4	11
18	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
17	Effect of ethanolamine passivation of ZnO nanoparticles in quantum dot light emitting diode structure. <i>Current Applied Physics</i> , <b>2019</b> , 19, 998-1005	2.6	10
16	Flexible electrochromic and thermochromic hybrid smart window based on a highly durable ITO/graphene transparent electrode. <i>Chemical Engineering Journal</i> , <b>2021</b> , 416, 129028	14.7	9
15	Single-step self-assembly of multilayer graphene based dielectric nanostructures. <i>FlatChem</i> , <b>2017</b> , 4, 61-67	5.1	7
14	Negative-tone block copolymer lithography by in situ surface chemical modification. <i>Small</i> , <b>2014</b> , 10, 4207-12	11	4
13	Durability-enhanced monolithic inorganic electrochromic devices with tantalum-doped nickel oxide as a counter electrode. <i>Solar Energy Materials and Solar Cells</i> , <b>2022</b> , 234, 111435	6.4	4
12	Geometric effects of nanocrystals in nonvolatile memory using block copolymer nanotemplate. <i>Solid-State Electronics</i> , <b>2009</b> , 53, 640-643	1.7	3
11	Hierarchical Self-Assembly of Thickness-Modulated Block Copolymer Thin Films for Controlling Nanodomain Orientations inside Bare Silicon Trenches. <i>Polymers</i> , <b>2021</b> , 13,	4.5	3
10	Flexible Electronics: Materials and Designs for Wirelessly Powered Implantable Light-Emitting Systems (Small 18/2012). <i>Small</i> , <b>2012</b> , 8, 2770-2770	11	2
9	Surface Nanopatterning: Mussel-Inspired Block Copolymer Lithography for Low Surface Energy Materials of Teflon, Graphene, and Gold (Adv. Mater. 47/2011). <i>Advanced Materials</i> , <b>2011</b> , 23, 5584-5584 <sup>24</sup>		2
8	Artificial stretchable armor for skin-interfaced wearable devices and soft robotics. <i>Extreme Mechanics Letters</i> , <b>2022</b> , 50, 101537	3.9	2
7	Self-Assembled Nanostructures of Block Copolymers on Random Copolymer Brush. <i>Solid State Phenomena</i> , <b>2007</b> , 124-126, 579-582	0.4	1
6	The Synthesis of Random Brush for Nanostructure of Block Copolymer. <i>Macromolecular Symposia</i> , <b>2007</b> , 249-250, 303-306	0.8	1
5	Electronic Structures: Mechanically Guided Post-Assembly of 3D Electronic Systems (Adv. Funct. Mater. 48/2018). <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1870344	15.6	1

4	Collapse-Induced Multimer Formation of Self-Assembled Nanoparticles for Surface Enhanced Raman Scattering. <i>Coatings</i> , <b>2021</b> , 11, 76	2.9	0
3	Directed high- $\Gamma$ block copolymer self-assembly by laser writing on silicon substrate. <i>Journal of Applied Polymer Science</i> , 52291	2.9	0
2	Electrodes: Ferromagnetic, Folded Electrode Composite as a Soft Interface to the Skin for Long-Term Electrophysiological Recording (Adv. Funct. Mater. 40/2016). <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 7280-7280	15.6	
1	Self-Assembly Nanofabrication via Mussel-Inspired Interfacial Engineering. <i>Applied Mechanics and Materials</i> , <b>2012</b> , 229-231, 2749-2752	0.3	