Ju Young Kim

List of Publications by Year
in descending order

68
papers

4,583
citations

136950
32
h-index

98798
67
g-index

74
all docs

74
docs citations

74
times ranked

6960
citing authors

#	Article	IF	Citations
1	Graphene Oxide Liquid Crystals. Angewandte Chemie - International Edition, 2011, 50, 3043-3047.	13.8	534
2	25th Anniversary Article: Chemically Modified/Doped Carbon Nanotubes & Graphene for Optimized Nanostructures & Nanodevices. Advanced Materials, 2014, 26, 40-67.	21.0	479
3	Workfunction-Tunable, N-Doped Reduced Graphene Transparent Electrodes for High-Performance Polymer Light-Emitting Diodes. ACS Nano, 2012, 6, 159-167.	14.6	297
4	Directed self-assembly of block copolymers for next generation nanolithography. Materials Today, 2013, 16, 468-476.	14.2	260
5	Vertical ZnO nanowires/graphene hybrids for transparent and flexible field emission. Journal of Materials Chemistry, 2011, 21, 3432-3437.	6.7	227
6	Graphene Oxide Liquid Crystals: Discovery, Evolution and Applications. Advanced Materials, 2016, 28, 3045-3068.	21.0	211
7	Musselâ€Inspired Block Copolymer Lithography for Low Surface Energy Materials of Teflon, Graphene, and Gold. Advanced Materials, 2011, 23, 5618-5622.	21.0	188
8	High-performance nanopattern triboelectric generator by block copolymer lithography. Nano Energy, 2015, 12, 331-338.	16.0	146
9	Highly tunable refractive index visible-light metasurface from block copolymer self-assembly. Nature Communications, 2016, 7, 12911.	12.8	143
10	Surface Energy Modification by Spin-Cast, Large-Area Graphene Film for Block Copolymer Lithography. ACS Nano, 2010, 4, 5464-5470.	14.6	132
11	Auâ€“Ag Coreâ€“Shell Nanoparticle Array by Block Copolymer Lithography for Synergistic Broadband Plasmonic Properties. ACS Nano, 2015, 9, 5536-5543.	14.6	130
12	One-Dimensional Metal Nanowire Assembly via Block Copolymer Soft Graphoepitaxy. Nano Letters, 2010, 10, 3500-3505.	9.1	102
13	Laser Writing Block Copolymer Self-Assembly on Graphene Light-Absorbing Layer. ACS Nano, 2016, 10, 3435-3442.	14.6	102
14	Multicomponent Nanopatterns by Directed Block Copolymer Self-Assembly. ACS Nano, 2013, 7, 8899-8907.	14.6	99
15	Ultralarge-Area Block Copolymer Lithography Enabled by Disposable Photoresist Prepatterning. ACS Nano, 2010, 4, 5181-5186.	14.6	97
16	Flexible and Transferrable Selfâ€Assembled Nanopatterning on Chemically Modified Graphene. Advanced Materials, 2013, 25, 1331-1335.	21.0	88
17	Flash Light Millisecond Selfâ€Assembly of High Ï‡ Block Copolymers for Waferâ€Scale Subâ€10 nm Nanopatterning. Advanced Materials, 2017, 29, 1700595.	21.0	78
18	Sub-Nanometer Level Size Tuning of a Monodisperse Nanoparticle Array Via Block Copolymer Lithography. Advanced Functional Materials, 2011, 21, 250-254.	14.9	70

#	Article	IF	Citations
19	Electric fields line up graphene oxide. Nature Materials, 2014, 13, 325-326.	27.5	66
20	Directed self-assembly of block copolymers for universal nanopatterning. Soft Matter, 2013, 9, 2780.	2.7	62
21	DNA Origami Nanopatterning on Chemically Modified Graphene. Angewandte Chemie - International Edition, 2012, 51, 912-915.	13.8	59
22	Ultralarge Area Sub-10 nm Plasmonic Nanogap Array by Block Copolymer Self-Assembly for Reliable High-Sensitivity SERS. ACS Applied Materials & Interfaces, 2018, 10, 44660-44667.	8.0	59
23	Monodisperse Pattern Nanoalloying for Synergistic Intermetallic Catalysis. Nano Letters, 2013, 13, 5720-5726.	9.1	58
24	3D Tailored Crumpling of Blockâ€Copolymer Lithography on Chemically Modified Graphene. Advanced Materials, 2016, 28, 1591-1596.	21.0	58
25	Atomic Layer Deposition Assisted Pattern Multiplication of Block Copolymer Lithography for 5 nm Scale Nanopatterning. Advanced Functional Materials, 2014, 24, 4343-4348.	14.9	55
26	Diffusion-Dependent Graphite Electrode for All-Solid-State Batteries with Extremely High Energy Density. ACS Energy Letters, 2020, 5, 2995-3004.	17.4	53
27	Mechanically Guided Postâ€Assembly of 3D Electronic Systems. Advanced Functional Materials, 2018, 28, 1803149.	14.9	41
28	Wrinkleâ€Directed Selfâ€Assembly of Block Copolymers for Aligning of Nanowire Arrays. Advanced Materials, 2014, 26, 4665-4670.	21.0	38
29	Interfacial barrier free organic-inorganic hybrid electrolytes for solid state batteries. Energy Storage Materials, 2021, 37, 306-314.	18.0	38
30	Anomalous Rapid Defect Annihilation in Self-Assembled Nanopatterns by Defect Melting. Nano Letters, 2015, 15, 1190-1196.	9.1	37
31	Graphiteâ€"Silicon Diffusionâ€Dependent Electrode with Short Effective Diffusion Length for Highâ€Performance Allâ€Solidâ€State Batteries. Advanced Energy Materials, 2022, 12, .	19.5	34
32	Metal Nanoparticle Array as a Tunable Refractive Index Material over Broad Visible and Infrared Wavelengths. ACS Photonics, 2018, 5, 1188-1195.	6.6	32
33	Electric field directed self-assembly of block copolymers for rapid formation of large-area complex nanopatterns. Molecular Systems Design and Engineering, 2017, 2, 560-566.	3.4	29
34	Revisiting TiS2 as a diffusion-dependent cathode with promising energy density for all-solid-state lithium secondary batteries. Energy Storage Materials, 2021, 41, 289-296.	18.0	28
35	Effect of the dielectric constant of a liquid electrolyte on lithium metal anodes. Electrochimica Acta, 2019, 300, 299-305.	5.2	27
36	Complex Highâ€Aspectâ€Ratio Metal Nanostructures by Secondary Sputtering Combined with Block Copolymer Selfâ€Assembly. Advanced Materials, 2016, 28, 8439-8445.	21.0	26

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37	Mesoporous perforated Co 3 O 4 nanoparticles with a thin carbon layer for high performance Li-ion battery anodes. Electrochimica Acta, 2018, 264, 376-385.	5.2	26
38	Electrode design methodology for all-solid-state batteries: 3D structural analysis and performance prediction. Energy Storage Materials, 2019, 19, 124-129.	18.0	26
39	Graphene Oxide Induced Surface Modification for Functional Separators in Lithium Secondary Batteries. Scientific Reports, 2019, 9, 2464.	3.3	23
40	Effects of vinylene carbonate and 1,3-propane sultone on high-rate cycle performance and surface properties of high-nickel layered oxide cathodes. Materials Research Bulletin, 2020, 132, 111008.	5.2	19
41	Nanodomain Swelling Block Copolymer Lithography for Morphology Tunable Metal Nanopatterning. Small, 2014, 10, 3742-3749.	10.0	18
42	Bimodal phase separated block copolymer/homopolymer blends self-assembly for hierarchical porous metal nanomesh electrodes. Nanoscale, 2018, 10, 100-108.	5.6	17
43	Dimension-controlled solid oxide electrolytes for all-solid-state electrodes: Percolation pathways, specific contact area, and effective ionic conductivity. Chemical Engineering Journal, 2020, 391, 123528.	12.7	17
44	All-solid-state hybrid electrode configuration for high-performance all-solid-state batteries: Comparative study with composite electrode and diffusion-dependent electrode. Journal of Power Sources, 2022, 518, 230736.	7.8	17
45	Hierarchical Directed Selfâ€Assembly of Diblock Copolymers for Modified Pattern Symmetry. Advanced Functional Materials, 2016, 26, 6462-6470.	14.9	16
46	Insights into Lithium Surface: Stable Cycling by Controlled 10 Î¼m Deep Surface Relief, Reinterpreting the Natural Surface Defect on Lithium Metal Anode. ACS Applied Energy Materials, 2019, 2, 5656-5664.	5.1	16
47	Reversible thixotropic gel electrolytes for safer and shape-versatile lithium-ion batteries. Journal of Power Sources, 2018, 401, 126-134.	7.8	15
48	Efficient cell design and fabrication of concentrationâ€gradient composite electrodes for highâ€power and highâ€energyâ€density allâ€solidâ€state batteries. ETRI Journal, 2020, 42, 129-137.	2.0	14
49	High-rate cycling performance and surface analysis of LiNi1-Co/2Mn/2O2 (x=2/3, 0.4, 0.2) cathode materials. Materials Chemistry and Physics, 2019, 222, 1-10.	4.0	12
50	Submicron interlayer for stabilizing thin Li metal powder electrode. Chemical Engineering Journal, 2021, 406, 126834.	12.7	12
51	Electrolyte-free graphite electrode with enhanced interfacial conduction using Li+-conductive binder for high-performance all-solid-state batteries. Energy Storage Materials, 2022, 49, 481-492.	18.0	10
52	Single-step self-assembly of multilayer graphene based dielectric nanostructures. FlatChem, 2017, 4, 61-67.	5.6	8
53	Self-Assembled Nanoâ€"Lotus Pod Metasurface for Light Trapping. ACS Photonics, 2021, 8, 1616-1622.	6.6	8
54	Carbon: 25th Anniversary Article: Chemically Modified/Doped Carbon Nanotubes & Graphene for Optimized Nanostructures & Nanodevices (Adv. Mater. 1/2014). Advanced Materials, 2014, 26, 2-2.	21.0	7

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55	Negativeâ€Tone Block Copolymer Lithography by In Situ Surface Chemical Modification. Small, 2014, 10, 4207-4212.	10.0	6
56	The controlled release of active substance from one-dimensional inorganic nanocarrier for the stability enhancement of lithium batteries. Chemical Engineering Journal, 2022, 427, 131748.	12.7	6
57	Restacked nanohybrid graphene layers with expanded interlayer distance enabled by inorganic spacer for highly efficient, flexible Na-ion battery anodes. Journal of Electroanalytical Chemistry, 2021, 886, 115137.	3.8	4
58	2D argyrodite LPSCl solid electrolyte for all-solid-state Li-ion battery using reduced graphene oxide template. Materials Today Energy, 2022, 23, 100913.	4.7	4
59	Liquid Crystals: Graphene Oxide Liquid Crystals: Discovery, Evolution and Applications (Adv. Mater.) Tj ETQq1 1 0.784314 rgBT /Overlock	21.0	3
60	Directed highâ€ï‡ block copolymer <scp>selfâ€assembly</scp> by laser writing on silicon substrate. Journal of Applied Polymer Science, 2022, 139, .	2.6	3
61	Surface Nanopatterning: Mussel-Inspired Block Copolymer Lithography for Low Surface Energy Materials of Teflon, Graphene, and Gold (Adv. Mater. 47/2011). Advanced Materials, 2011, 23, 5584-5584.	21.0	2
62	Electronic Stuctures: Mechanically Guided Postâ€Assembly of 3D Electronic Systems (Adv. Funct. Mater.) Tj ETQq0 0 0 rgBT /Overlock 1	14.9	2
63	Methodology for Verifying the load limit point and bottle-neck of a game server using the large scale virtual clients. International Conference on Advanced Communication Technology, 2008, , .	0.0	1
64	Collapse-Induced Multimer Formation of Self-Assembled Nanoparticles for Surface Enhanced Raman Scattering. Coatings, 2021, 11, 76.	2.6	1
65	Soft materials nanoengineering by directed molecular assembly. , 2010, , .		0
66	Ultralarge-area block copolymer lithography using self-assembly assisted photoresist pre-pattern. , 2011, , .		0
67	Self-Assembly Nanofabrication via Mussel-Inspired Interfacial Engineering. Applied Mechanics and Materials, 0, 229-231, 2749-2752.	0.2	0
68	Back Cover: DNA Origami Nanopatterning on Chemically Modified Graphene (Angew. Chem. Int. Ed.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	13.8	0