

Yeon Sik Jung

List of Publications by Year in descending order

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155
papers

9,564
citations

34105

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159
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159
times ranked

12183
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphoepitaxy of Self-Assembled Block Copolymers on Two-Dimensional Periodic Patterned Templates. <i>Science</i> , 2008, 321, 939-943.	12.6	760
2	Orientation-Controlled Self-Assembled Nanolithography Using a Polystyrene- <i>b</i> -Polydimethylsiloxane Block Copolymer. <i>Nano Letters</i> , 2007, 7, 2046-2050.	9.1	424
3	Scalable Fabrication of Silicon Nanotubes and their Application to Energy Storage. <i>Advanced Materials</i> , 2012, 24, 5452-5456.	21.0	338
4	Controlled Doping of Vacancy-Containing Few-Layer MoS ₂ via Highly Stable Thiol-Based Molecular Chemisorption. <i>ACS Nano</i> , 2015, 9, 12115-12123.	14.6	320
5	Topographically-Designed Triboelectric Nanogenerator via Block Copolymer Self-Assembly. <i>Nano Letters</i> , 2014, 14, 7031-7038.	9.1	310
6	Formation of Bandgap and Subbands in Graphene Nanomeshes with Sub-10 nm Ribbon Width Fabricated via Nanoimprint Lithography. <i>Nano Letters</i> , 2010, 10, 2454-2460.	9.1	302
7	Complex self-assembled patterns using sparse commensurate templates with locally varying motifs. <i>Nature Nanotechnology</i> , 2010, 5, 256-260.	31.5	245
8	Solvent-Vapor-Induced Tunability of Self-Assembled Block Copolymer Patterns. <i>Advanced Materials</i> , 2009, 21, 2540-2545.	21.0	238
9	A Path to Ultranarrow Patterns Using Self-Assembled Lithography. <i>Nano Letters</i> , 2010, 10, 1000-1005.	9.1	229
10	Influence of DC magnetron sputtering parameters on the properties of amorphous indium zinc oxide thin film. <i>Thin Solid Films</i> , 2003, 445, 63-71.	1.8	202
11	Highly Tunable Self-Assembled Nanostructures from a Poly(2-vinylpyridine- <i>b</i> -dimethylsiloxane) Block Copolymer. <i>Nano Letters</i> , 2011, 11, 4095-4101.	9.1	202
12	Nanowire Conductive Polymer Gas Sensor Patterned Using Self-Assembled Block Copolymer Lithography. <i>Nano Letters</i> , 2008, 8, 3776-3780.	9.1	197
13	Uniform Graphene Quantum Dots Patterned from Self-Assembled Silica Nanodots. <i>Nano Letters</i> , 2012, 12, 6078-6083.	9.1	186
14	Cascade surface modification of colloidal quantum dot inks enables efficient bulk homojunction photovoltaics. <i>Nature Communications</i> , 2020, 11, 103.	12.8	181
15	High-resolution nanotransfer printing applicable to diverse surfaces via interface-targeted adhesion switching. <i>Nature Communications</i> , 2014, 5, 5387.	12.8	178
16	3D Cross-Point Plasmonic Nanoarchitectures Containing Dense and Regular Hot Spots for Surface-Enhanced Raman Spectroscopy Analysis. <i>Advanced Materials</i> , 2016, 28, 8695-8704.	21.0	178
17	Three-Dimensional Nanofabrication by Block Copolymer Self-Assembly. <i>Advanced Materials</i> , 2014, 26, 4386-4396.	21.0	155
18	A Stretchable Polymer-Carbon Nanotube Composite Electrode for Flexible Lithium-Ion Batteries: Porosity Engineering by Controlled Phase Separation. <i>Advanced Energy Materials</i> , 2012, 2, 976-982.	19.5	141

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19	Nanofabricated Concentric Ring Structures by Templated Self-Assembly of a Diblock Copolymer. Nano Letters, 2008, 8, 2975-2981.	9.1	117
20	Flexible and Robust Superomniphobic Surfaces Created by Localized Photofluidization of Azopolymer Pillars. ACS Nano, 2017, 11, 7821-7828.	14.6	115
21	Chemical reaction of sputtered Cu film with PI modified by low energy reactive atomic beam. Applied Surface Science, 2006, 252, 5877-5891.	6.1	107
22	Fabrication of Diverse Metallic Nanowire Arrays Based on Block Copolymer Self-Assembly. Nano Letters, 2010, 10, 3722-3726.	9.1	102
23	Self-Extinguishing Lithium Ion Batteries Based on Internally Embedded Fire-Extinguishing Microcapsules with Temperature-Responsiveness. Nano Letters, 2015, 15, 5059-5067.	9.1	101
24	Cobalt Nanoparticle Arrays made by Templated Solid-State Dewetting. Small, 2009, 5, 860-865.	10.0	98
25	Effects of thermal treatment on the electrical and optical properties of silver-based indium tin oxide/metal/indium tin oxide structures. Thin Solid Films, 2003, 440, 278-284.	1.8	97
26	Reliable Control of Filament Formation in Resistive Memories by Self-Assembled Nanoinsulators Derived from a Block Copolymer. ACS Nano, 2014, 8, 9492-9502.	14.6	93
27	Highly efficient oxygen evolution reaction via facile bubble transport realized by three-dimensionally stack-printed catalysts. Nature Communications, 2020, 11, 4921.	12.8	93
28	Influence of dc magnetron sputtering parameters on surface morphology of indium tin oxide thin films. Applied Surface Science, 2004, 221, 136-142.	6.1	91
29	Nanotransfer Printing with sub-10 nm Resolution Realized using Directed Self-Assembly. Advanced Materials, 2012, 24, 3526-3531.	21.0	91
30	Soft Patchy Particles of Block Copolymers from Interface-Engineered Emulsions. ACS Nano, 2015, 9, 11333-11341.	14.6	91
31	Spectroscopic ellipsometry studies on the optical constants of indium tin oxide films deposited under various sputtering conditions. Thin Solid Films, 2004, 467, 36-42.	1.8	90
32	Reliable Memristive Switching Memory Devices Enabled by Densely Packed Silver Nanocone Arrays as Electric-Field Concentrators. ACS Nano, 2016, 10, 9478-9488.	14.6	90
33	Self-Assembly-Induced Formation of High-Density Silicon Oxide Memristor Nanostructures on Graphene and Metal Electrodes. Nano Letters, 2012, 12, 1235-1240.	9.1	89
34	Si-containing block copolymers for self-assembled nanolithography. Journal of Vacuum Science & Technology B, 2008, 26, 2489-2494.	1.3	82
35	Directed Self-Assembly with Sub-100 Degrees Celsius Processing Temperature, Sub-10 Nanometer Resolution, and Sub-1 Minute Assembly Time. Small, 2012, 8, 3762-3768.	10.0	81
36	Atomic Layer Etching Mechanism of MoS ₂ for Nanodevices. ACS Applied Materials & Interfaces, 2017, 9, 11967-11976.	8.0	81

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37	Development of indium tin oxide film texture during DC magnetron sputtering deposition. Journal of Crystal Growth, 2003, 259, 343-351.	1.5	77
38	Well-Ordered Thin-Film Nanopore Arrays Formed Using a Block-Copolymer Template. Small, 2009, 5, 1654-1659.	10.0	75
39	$\text{Li}_3\text{V}_2(\text{PO}_4)_3$ /Conducting Polymer as a High Power 4 V-Class Lithium Battery Electrode. Advanced Energy Materials, 2013, 3, 1004-1007.	19.5	75
40	Extremely High Yield Conversion from Low-Cost Sand to High-Capacity Si Electrodes for Li-Ion Batteries. Advanced Energy Materials, 2014, 4, 1400622.	19.5	75
41	Tailored $\text{Li}_4\text{Ti}_5\text{O}_{12}$ nanofibers with outstanding kinetics for lithium rechargeable batteries. Nanoscale, 2012, 4, 6870.	5.6	74
42	Self-Assembled Incorporation of Modulated Block Copolymer Nanostructures in Phase-Change Memory for Switching Power Reduction. ACS Nano, 2013, 7, 2651-2658.	14.6	74
43	Flexible One Diode-One Phase Change Memory Array Enabled by Block Copolymer Self-Assembly. ACS Nano, 2015, 9, 4120-4128.	14.6	74
44	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.	14.6	70
45	Growth and properties of ZnO nanoblade and nanoflower prepared by ultrasonic pyrolysis. Journal of Applied Physics, 2005, 97, 044305.	2.5	67
46	Ultrasensitive MoS_2 photodetector by serial nano-bridge multi-heterojunction. Nature Communications, 2019, 10, 4701.	12.8	66
47	Carboxylic Acid-Functionalized, Graphitic Layer-Coated Three-Dimensional SERS Substrate for Label-Free Analysis of Alzheimer's Disease Biomarkers. Nano Letters, 2020, 20, 2576-2584.	9.1	64
48	Extremely Small Pyrrhotite Fe_7S_8 Nanocrystals with Simultaneous Carbon-Encapsulation for High-Performance Na-Ion Batteries. Small, 2018, 14, 1702816.	10.0	62
49	Study on texture evolution and properties of silver thin films prepared by sputtering deposition. Applied Surface Science, 2004, 221, 281-287.	6.1	60
50	Tailoring of the PbS/metal interface in colloidal quantum dot solar cells for improvements of performance and air stability. Energy and Environmental Science, 2014, 7, 3052.	30.8	55
51	Direct Fabrication of Micro/Nano-Patterned Surfaces by Vertical-Directional Photofluidization of Azobenzene Materials. ACS Nano, 2017, 11, 1320-1327.	14.6	55
52	Long-Term Stable 2H-MoS_2 Dispersion: Critical Role of Solvent for Simultaneous Phase Restoration and Surface Functionalization of Liquid-Exfoliated MoS_2 . ACS Omega, 2017, 2, 4678-4687.	3.5	55
53	Thermodynamic-driven polychromatic quantum dot patterning for light-emitting diodes beyond eye-limiting resolution. Nature Communications, 2020, 11, 3040.	12.8	53
54	Palladium-Decorated Silicon Nanomesh Fabricated by Nanosphere Lithography for High Performance, Room Temperature Hydrogen Sensing. Small, 2018, 14, 1703691.	10.0	52

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55	Eliminating the Trade-Off between the Throughput and Pattern Quality of Sub-15 nm Directed Self-Assembly via Warm Solvent Annealing. <i>Advanced Functional Materials</i> , 2015, 25, 306-315.	14.9	49
56	Ferromagnetism in 200-MeV Ag ⁺ 15-ion-irradiated Co-implanted ZnO thin films. <i>Applied Physics Letters</i> , 2006, 88, 142502.	3.3	47
57	Molecular structure engineering of dielectric fluorinated polymers for enhanced performances of triboelectric nanogenerators. <i>Nano Energy</i> , 2018, 53, 37-45.	16.0	47
58	Controlling the Morphology of Side Chain Liquid Crystalline Block Copolymer Thin Films through Variations in Liquid Crystalline Content. <i>Nano Letters</i> , 2008, 8, 3434-3440.	9.1	46
59	Deep-Nanoscale Pattern Engineering by Immersion-Induced Self-Assembly. <i>ACS Nano</i> , 2014, 8, 10009-10018.	14.6	46
60	Natural-Wood-Derived Lignosulfonate Ionomer as Multifunctional Binder for High-Performance Lithium-Sulfur Battery. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 17580-17586.	6.7	43
61	Vertically aligned nanostructures for a reliable and ultrasensitive SERS-active platform: Fabrication and engineering strategies. <i>Nano Today</i> , 2021, 37, 101063.	11.9	43
62	Luminescence of bound excitons in epitaxial ZnO thin films grown by plasma-assisted molecular beam epitaxy. <i>Journal of Applied Physics</i> , 2006, 99, 013502.	2.5	40
63	Photoluminescence of Ga-doped ZnO film grown on c-Al ₂ O ₃ (0001) by plasma-assisted molecular beam epitaxy. <i>Journal of Applied Physics</i> , 2007, 102, .	2.5	40
64	Enhancing the Potential of Block Copolymer Lithography with Polymer Self-Consistent Field Theory Simulations. <i>Macromolecules</i> , 2010, 43, 8290-8295.	4.8	38
65	Porous silicon nanowires for lithium rechargeable batteries. <i>Nanotechnology</i> , 2013, 24, 424008.	2.6	38
66	Two-dimensional growth of ZnO epitaxial films on c-Al ₂ O ₃ (0001) substrates with optimized growth temperature and low-temperature buffer layer by plasma-assisted molecular beam epitaxy. <i>Journal of Crystal Growth</i> , 2005, 274, 418-424.	1.5	35
67	Thermally assisted nanotransfer printing with sub-20-nm resolution and 8-inch wafer scalability. <i>Science Advances</i> , 2020, 6, eabb6462.	10.3	35
68	Host-Guest Self-assembly in Block Copolymer Blends. <i>Scientific Reports</i> , 2013, 3, 3190.	3.3	34
69	Regioregularity-Driven Morphological Transition of Poly(3-hexylthiophene)-Based Block Copolymers. <i>Macromolecules</i> , 2017, 50, 1902-1908.	4.8	34
70	Area-Selective Lift-Off Mechanism Based on Dual-Triggered Interfacial Adhesion Switching: Highly Facile Fabrication of Flexible Nanomesh Electrode. <i>ACS Nano</i> , 2017, 11, 3506-3516.	14.6	33
71	Interfacial band-edge engineered TiO ₂ protection layer on Cu ₂ O photocathodes for efficient water reduction reaction. <i>Electronic Materials Letters</i> , 2017, 13, 57-65.	2.2	33
72	Block Copolymer with an Extremely High Block-to-Block Interaction for a Significant Reduction of Line-Edge Fluctuations in Self-Assembled Patterns. <i>Chemistry of Materials</i> , 2016, 28, 5680-5688.	6.7	32

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73	Surface structure and field emission property of carbon nanotubes grown by radio-frequency plasma-enhanced chemical vapor deposition. <i>Applied Surface Science</i> , 2002, 193, 129-137.	6.1	30
74	A spectroscopic ellipsometry study on the variation of the optical constants of tin-doped indium oxide thin films during crystallization. <i>Solid State Communications</i> , 2004, 129, 491-495.	1.9	30
75	Ultra-High Optical Transparency of Robust, Graded-Index, and Anti-Fogging Silica Coating Derived from Si-Containing Block Copolymers. <i>Advanced Optical Materials</i> , 2013, 1, 428-433.	7.3	29
76	Highly Asymmetric $n \times p$ Heterojunction Quantum-Dot Solar Cells with Significantly Improved Charge-Collection Efficiencies. <i>Advanced Materials</i> , 2016, 28, 1780-1787.	21.0	29
77	Cascade domino lithography for extreme photon squeezing. <i>Materials Today</i> , 2020, 39, 89-97.	14.2	29
78	Sequentially Self-Assembled Rings-in-Mesh Nanoplasmonic Arrays for Surface-Enhanced Raman Spectroscopy. <i>Chemistry of Materials</i> , 2015, 27, 5007-5013.	6.7	28
79	Synthesis of colloidal VO ₂ nanoparticles for thermochromic applications. <i>Solar Energy Materials and Solar Cells</i> , 2018, 176, 266-272.	6.2	28
80	Tuning Solute-Redistribution Dynamics for Scalable Fabrication of Colloidal Quantum-Dot Optoelectronics. <i>Advanced Materials</i> , 2019, 31, e1805886.	21.0	28
81	Versatile, transferrable 3-dimensionally nanofabricated Au catalysts with high-index crystal planes for highly efficient and robust electrochemical CO ₂ reduction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 6045-6052.	10.3	28
82	Synergistic SERS Enhancement in GaN-Ag Hybrid System toward Label-Free and Multiplexed Detection of Antibiotics in Aqueous Solutions. <i>Advanced Science</i> , 2021, 8, e2100640.	11.2	28
83	Conformation-modulated three-dimensional electrocatalysts for high-performance fuel cell electrodes. <i>Science Advances</i> , 2021, 7, .	10.3	27
84	Separation-free bacterial identification in arbitrary media via deep neural network-based SERS analysis. <i>Biosensors and Bioelectronics</i> , 2022, 202, 113991.	10.1	27
85	Effective Suppression of Polysulfide Dissolution by Uniformly Transfer-Printed Conducting Polymer on Sulfur Cathode for Li-S Batteries. <i>Journal of the Electrochemical Society</i> , 2017, 164, A6417-A6421.	2.9	26
86	Template Dissolution Interfacial Patterning of Single Colloids for Nanoelectrochemistry and Nanosensing. <i>ACS Nano</i> , 2020, 14, 17693-17703.	14.6	25
87	Selective, Quantitative, and Multiplexed Surface-Enhanced Raman Spectroscopy Using Aptamer-Functionalized Monolithic Plasmonic Nanogrids Derived from Cross-Point Nano-Welding. <i>Advanced Functional Materials</i> , 2020, 30, 2000612.	14.9	25
88	Synergistic Integration of Chemo-Resistive and SERS Sensing for Label-Free Multiplex Gas Detection. <i>Advanced Materials</i> , 2021, 33, e2105199.	21.0	25
89	Highly Efficient Deep Blue Cd-Free Quantum Dot Light-Emitting Diodes by a p -Type Doped Emissive Layer. <i>Small</i> , 2020, 16, e2002109.	10.0	24
90	Current-induced manipulation of exchange bias in IrMn/NiFe bilayer structures. <i>Nature Communications</i> , 2021, 12, 6420.	12.8	24

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91	Thermodynamic and Kinetic Tuning of Block Copolymer Based on Random Copolymerization for High-Quality Sub-6 nm Pattern Formation. <i>Advanced Functional Materials</i> , 2018, 28, 1800765.	14.9	23
92	The effect of ZnO homo-buffer layer on ZnO thin films grown on c-Al ₂ O ₃ (0001) by plasma assisted molecular beam epitaxy. <i>Journal of Crystal Growth</i> , 2004, 267, 85-91.	1.5	22
93	Transferrable Plasmonic Au Thin Film Containing Sub-20 nm Nanohole Array Constructed via High-Resolution Polymer Self-Assembly and Nanotransfer Printing. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 2216-2223.	8.0	22
94	Engineering Nanoscale Interfaces of Metal/Oxide Nanowires to Control Catalytic Activity. <i>ACS Nano</i> , 2020, 14, 8335-8342.	14.6	22
95	Order-disorder transition-induced band nestification in AgBiSe ₂ –CuBiSe ₂ solid solutions for superior thermoelectric performance. <i>Journal of Materials Chemistry A</i> , 2021, 9, 4648-4657.	10.3	22
96	Order-of-Magnitude, Broadband-Enhanced Light Emission from Quantum Dots Assembled in Multiscale Phase-Separated Block Copolymers. <i>Nano Letters</i> , 2019, 19, 6827-6838.	9.1	21
97	In Situ Nanolithography with Sub-10 nm Resolution Realized by Thermally Assisted Spin-Casting of a Self-Assembling Polymer. <i>Advanced Materials</i> , 2015, 27, 4814-4822.	21.0	20
98	Controlling hot electron flux and catalytic selectivity with nanoscale metal-oxide interfaces. <i>Nature Communications</i> , 2021, 12, 40.	12.8	20
99	Surface-Shielding Nanostructures Derived from Self-Assembled Block Copolymers Enable Reliable Plasma Doping for Few-Layer Transition Metal Dichalcogenides. <i>Advanced Functional Materials</i> , 2016, 26, 5631-5640.	14.9	19
100	Enhancing the Directed Self-assembly Kinetics of Block Copolymers Using Binary Solvent Mixtures. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 25843-25850.	8.0	18
101	Regulating Te Vacancies through Dopant Balancing via Excess Ag Enables Rebounding Power Factor and High Thermoelectric Performance in p-Type PbTe. <i>Advanced Science</i> , 2021, 8, e2100895.	11.2	18
102	Fabrication and Applications of 3D Nanoarchitectures for Advanced Electrocatalysts and Sensors. <i>Advanced Materials</i> , 2020, 32, e1907500.	21.0	17
103	Heat-fueled enzymatic cascade for selective oxyfunctionalization of hydrocarbons. <i>Nature Communications</i> , 2022, 13, .	12.8	17
104	Electron transport in high quality undoped ZnO film grown by plasma-assisted molecular beam epitaxy. <i>Solid State Communications</i> , 2006, 137, 474-477.	1.9	16
105	Localized surface plasmon-enhanced nanosensor platform using dual-responsive polymer nanocomposites. <i>Nanoscale</i> , 2013, 5, 7403.	5.6	16
106	Nanotransplantation Printing of Crystallographic-Orientation-Controlled Single-Crystalline Nanowire Arrays on Diverse Surfaces. <i>ACS Nano</i> , 2017, 11, 11642-11652.	14.6	16
107	Comparative Study of Thermoelectric Properties of Sb ₂ Si ₂ Te ₆ and Bi ₂ Si ₂ Te ₆ . <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 1270-1279.	8.0	15
108	Self-Induced Solutal Marangoni Flows Realize Coffee-Ring-Less Quantum Dot Microarrays with Extensive Geometric Tunability and Scalability. <i>Advanced Science</i> , 2022, 9, e2104519.	11.2	15

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109	Polychromatic Quantum Dot Array to Compose a Community Signal Ensemble for Multiplexed miRNA Detection. <i>ACS Nano</i> , 2022, 16, 11115-11123.	14.6	15
110	Nanoimprint-Induced Molecular Stacking and Pattern Stabilization in a Solution-Processed Subphthalocyanine Film. <i>ACS Nano</i> , 2010, 4, 2627-2634.	14.6	14
111	Interfacial Energy-Controlled Top Coats for Gyroid/Cylinder Phase Transitions of Polystyrene- <i>block</i> -polydimethylsiloxane Block Copolymer Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 17427-17434.	8.0	14
112	Suppressing Interfacial Dipoles to Minimize Open-Circuit Voltage Loss in Quantum Dot Photovoltaics. <i>Advanced Energy Materials</i> , 2019, 9, 1901938.	19.5	14
113	Hierarchically layered nanocomposite electrodes formed by spray-injected MXene nanosheets for ultrahigh-performance flexible supercapacitors. <i>Applied Surface Science</i> , 2021, 549, 149226.	6.1	14
114	Universal Synthesis of Porous Inorganic Nanosheets via Graphene-Cellulose Templating Route. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 34100-34108.	8.0	13
115	Siloxane-Encapsulated Upconversion Nanoparticle Hybrid Composite with Highly Stable Photoluminescence against Heat and Moisture. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 15952-15959.	8.0	13
116	Individual Confinement of Block Copolymer Microdomains in Nanoscale Crossbar Templates. <i>Advanced Functional Materials</i> , 2019, 29, 1805795.	14.9	12
117	Engraving High-Density Nanogaps in Gold Thin Films via Sequential Anodization and Reduction for Surface-Enhanced Raman Spectroscopy Applications. <i>Chemistry of Materials</i> , 2018, 30, 6183-6191.	6.7	12
118	Unconventional grain growth suppression in oxygen-rich metal oxide nanoribbons. <i>Science Advances</i> , 2021, 7, eabh2012.	10.3	12
119	A stationary plasma thruster for modification of polymer and ceramic surfaces. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005, 239, 440-450.	1.4	11
120	Hierarchically Self-Assembled Block Copolymer Blends for Templating Hollow Phase-Change Nanostructures with an Extremely Low Switching Current. <i>Chemistry of Materials</i> , 2015, 27, 2673-2677.	6.7	11
121	Single Nanoparticle Localization in the Perforated Lamellar Phase of Self-Assembled Block Copolymer Driven by Entropy Minimization. <i>Macromolecules</i> , 2015, 48, 7938-7944.	4.8	11
122	Fabrication of 50 nm scale Pt nanostructures by block copolymer (BCP) and its characteristics of surface-enhanced Raman scattering (SERS). <i>RSC Advances</i> , 2016, 6, 70756-70762.	3.6	11
123	Long-Range Ordered Self-Assembly of Novel Acrylamide-Based Diblock Copolymers for Nanolithography and Metallic Nanostructure Fabrication. <i>Advanced Materials</i> , 2014, 26, 2894-2900.	21.0	10
124	Glyoxalated polyacrylamide as a covalently attachable and rapidly cross-linkable binder for Si electrode in lithium ion batteries. <i>Electronic Materials Letters</i> , 2017, 13, 136-141.	2.2	10
125	Photo-Reconfigurable Azopolymer Etch Mask: Photofluidization-Driven Reconfiguration and Edge Rectangularization. <i>Small</i> , 2018, 14, e1703250.	10.0	10
126	Metallic Woodpile Nanostructures for Femtomolar Sensing of Alzheimer's Neurofilament Lights. <i>ACS Nano</i> , 2020, 14, 10376-10384.	14.6	10

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127	Extreme-Pressure Imprint Lithography for Heat and Ultraviolet-Free Direct Patterning of Rigid Nanoscale Features. ACS Nano, 2021, 15, 10464-10471.	14.6	10
128	Metal oxide charge transfer complex for effective energy band tailoring in multilayer optoelectronics. Nature Communications, 2022, 13, 75.	12.8	9
129	Current density enhancement nano-contact phase-change memory for low writing current. Applied Physics Letters, 2013, 103, .	3.3	8
130	Plasmon-Enhanced Photodetection in Ferromagnet/Nonmagnet Spin Thermoelectric Structures. Advanced Functional Materials, 2018, 28, 1802936.	14.9	7
131	Simulation and Fabrication of Nanoscale Spirals Based on Dual-Scale Self-Assemblies. ACS Applied Materials & Interfaces, 2020, 12, 46678-46685.	8.0	7
132	Surface wrinkle formation by liquid crystalline polymers for significant light extraction enhancement on quantum dot light-emitting diodes. Optics Express, 2020, 28, 26519.	3.4	7
133	Synthesis of poly(styrene- <i>b</i> -4-(<i>tert</i> -butyldimethylsiloxy)styrene) block copolymers and characterization of their self-assembled patterns. Molecular Systems Design and Engineering, 2017, 2, 589-596.	3.4	6
134	Spontaneous Registration of Sub-10 nm Features Based on Subzero Celsius Spin-Casting of Self-Assembling Building Blocks Directed by Chemically Encoded Surfaces. ACS Nano, 2018, 12, 8224-8233.	14.6	6
135	Enhanced flux of chemically induced hot electrons on a Pt nanowire/Si nanodiode during decomposition of hydrogen peroxide. Nanoscale Advances, 2020, 2, 4410-4416.	4.6	6
136	A Systematic Study of the Interactions in the Top Electrode/Capping Layer/Thin Film Encapsulation of Transparent OLEDs. Journal of Industrial and Engineering Chemistry, 2021, 93, 237-244.	5.8	6
137	Modulation and Modeling of Three-Dimensional Nanowire Assemblies Targeting Gas Sensors with High Response and Reliability. Advanced Functional Materials, 2022, 32, 2108891.	14.9	6
138	Desolvation-Triggered Versatile Transfer-Printing of Pure BN Films with Thermal-Optical Dual Functionality. Advanced Materials, 2020, 32, 2002099.	21.0	5
139	Dependences of the surface and the optical properties on the O ₂ /O ₂ +Ar flow-rate ratios for ZnO thin films grown on ZnO buffer layers. Applied Surface Science, 2006, 252, 8121-8125.	6.1	4
140	Negative thermal quenching in undoped ZnO and Ga-doped ZnO film grown on c-Al ₂ O ₃ (0001) by plasma-assisted molecular beam epitaxy. Journal of Electroceramics, 2009, 23, 331-334.	2.0	4
141	Titanium(III) Sulfide Nanoparticles Coated with Multicomponent Oxide (Ti-S ₂ O) as a Conductive Polysulfide Scavenger for Lithium-Sulfur Batteries. Electronic Materials Letters, 2019, 15, 613-622.	2.2	4
142	Nanopatterned High-Frequency Supporting Structures Stably Eliminate Substrate Effects Imposed on Two-Dimensional Semiconductors. Nano Letters, 2018, 18, 2893-2902.	9.1	3
143	Polarized ultraviolet emitters with Al wire-grid polarizers fabricated by solvent-assisted nanotransfer process. Nanotechnology, 2020, 31, 045304.	2.6	3
144	Universal vertical standing of block copolymer microdomains enabled by a gradient block. Journal of Materials Chemistry C, 2021, 9, 14021-14029.	5.5	3

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145	Microcellular sensing media with ternary transparency states for fast and intuitive identification of unknown liquids. <i>Science Advances</i> , 2021, 7, eabg8013.	10.3	3
146	Enhancement of the surface and structural properties of ZnO epitaxial films grown on Al ₂ O ₃ substrates utilizing annealed ZnO buffer layers. <i>Journal of Electroceramics</i> , 2006, 17, 283-285.	2.0	2
147	High-performance ultracapacitor electrodes realized by 3-dimensionally bicontinuous block copolymer nanostructures with enhanced ion kinetics. <i>Journal of Materials Chemistry A</i> , 2021, 9, 16119-16128.	10.3	2
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155	Modulation and Modeling of Three-Dimensional Nanowire Assemblies Targeting Gas Sensors with High Response and Reliability (<i>Adv. Funct. Mater.</i> 10/2022). <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	0