

Yeon Sik Jung

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

151 papers	7,746 citations	47 h-index	85 g-index
159 ext. papers	8,625 ext. citations	12.2 avg, IF	6.13 L-index

#	Paper	IF	Citations
151	Separation-free bacterial identification in arbitrary media via deep neural network-based SERS analysis.. <i>Biosensors and Bioelectronics</i> , 2022 , 202, 113991	11.8	1
150	Self-Induced Solutal Marangoni Flows Realize Coffee-Ring-Less Quantum Dot Microarrays with Extensive Geometric Tunability and Scalability.. <i>Advanced Science</i> , 2022 , e2104519	13.6	2
149	Metal oxide charge transfer complex for effective energy band tailoring in multilayer optoelectronics.. <i>Nature Communications</i> , 2022 , 13, 75	17.4	0
148	Comparative Study of Thermoelectric Properties of SbSiTe and BiSiTe.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	2
147	Modulation and Modeling of Three-Dimensional Nanowire Assemblies Targeting Gas Sensors with High Response and Reliability (Adv. Funct. Mater. 10/2022). <i>Advanced Functional Materials</i> , 2022 , 32, 2270065	15.6	
146	Current-induced manipulation of exchange bias in IrMn/NiFe bilayer structures. <i>Nature Communications</i> , 2021 , 12, 6420	17.4	7
145	Unconventional grain growth suppression in oxygen-rich metal oxide nanoribbons. <i>Science Advances</i> , 2021 , 7, eabh2012	14.3	3
144	Synergistic Integration of Chemo-Resistive and SERS Sensing for Label-Free Multiplex Gas Detection (Adv. Mater. 44/2021). <i>Advanced Materials</i> , 2021 , 33, 2170350	24	
143	Vertically aligned nanostructures for a reliable and ultrasensitive SERS-active platform: Fabrication and engineering strategies. <i>Nano Today</i> , 2021 , 37, 101063	17.9	11
142	Hierarchically layered nanocomposite electrodes formed by spray-injected MXene nanosheets for ultrahigh-performance flexible supercapacitors. <i>Applied Surface Science</i> , 2021 , 549, 149226	6.7	5
141	Extreme-Pressure Imprint Lithography for Heat and Ultraviolet-Free Direct Patterning of Rigid Nanoscale Features. <i>ACS Nano</i> , 2021 , 15, 10464-10471	16.7	2
140	A Systematic Study of the Interactions in the Top Electrode/Capping Layer/Thin Film Encapsulation of Transparent OLEDs. <i>Journal of Industrial and Engineering Chemistry</i> , 2021 , 93, 237-244	6.3	3
139	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	13	8
138	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	13.28	0
137	Conformation-modulated three-dimensional electrocatalysts for high-performance fuel cell electrodes. <i>Science Advances</i> , 2021 , 7,	14.3	4
136	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	13.6	4
135	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	13.6	9

134	Synergistic Integration of Chemo-Resistive and SERS Sensing for Label-Free Multiplex Gas Detection. <i>Advanced Materials</i> , 2021 , 33, e2105199	24	4
133	Microcellular sensing media with ternary transparency states for fast and intuitive identification of unknown liquids. <i>Science Advances</i> , 2021 , 7, eabg8013	14.3	1
132	Controlling hot electron flux and catalytic selectivity with nanoscale metal-oxide interfaces. <i>Nature Communications</i> , 2021 , 12, 40	17.4	7
131	Engineering Nanoscale Interfaces of Metal/Oxide Nanowires to Control Catalytic Activity. <i>ACS Nano</i> , 2020 , 14, 8335-8342	16.7	9
130	Thermodynamic-driven polychromatic quantum dot patterning for light-emitting diodes beyond eye-limiting resolution. <i>Nature Communications</i> , 2020 , 11, 3040	17.4	22
129	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	15.6	12
128	Carboxylic Acid-Functionalized, Graphitic Layer-Coated Three-Dimensional SERS Substrate for Label-Free Analysis of Alzheimer's Disease Biomarkers. <i>Nano Letters</i> , 2020 , 20, 2576-2584	11.5	35
127	Surface wrinkle formation by liquid crystalline polymers for significant light extraction enhancement on quantum dot light-emitting diodes. <i>Optics Express</i> , 2020 , 28, 26519-26530	3.3	4
126	Scalable Nanofabrication of Plasmonic Nanostructures for Trace-Amount Molecular Sensing Based on Surface-Enhanced Raman Spectroscopy (SERS) 2020 , 71-92		
125	Highly efficient oxygen evolution reaction via facile bubble transport realized by three-dimensionally stack-printed catalysts. <i>Nature Communications</i> , 2020 , 11, 4921	17.4	28
124	Polarized ultraviolet emitters with Al wire-grid polarizers fabricated by solvent-assisted nanotransfer process. <i>Nanotechnology</i> , 2020 , 31, 045304	3.4	1
123	Cascade surface modification of colloidal quantum dot inks enables efficient bulk homojunction photovoltaics. <i>Nature Communications</i> , 2020 , 11, 103	17.4	110
122	Cascade domino lithography for extreme photon squeezing. <i>Materials Today</i> , 2020 , 39, 89-97	21.8	18
121	Template Dissolution Interfacial Patterning of Single Colloids for Nanoelectrochemistry and Nanosensing. <i>ACS Nano</i> , 2020 ,	16.7	13
120	Metallic Woodpile Nanostructures for Femtomolar Sensing of Alzheimer's Neurofilament Lights. <i>ACS Nano</i> , 2020 , 14, 10376-10384	16.7	5
119	Thermally assisted nanotransfer printing with sub-20-nm resolution and 8-inch wafer scalability. <i>Science Advances</i> , 2020 , 6, eabb6462	14.3	15
118	Simulation and Fabrication of Nanoscale Spirals Based on Dual-Scale Self-Assemblies. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 46678-46685	9.5	3
117	Highly Efficient Deep Blue Cd-Free Quantum Dot Light-Emitting Diodes by a p-Type Doped Emissive Layer. <i>Small</i> , 2020 , 16, e2002109	11	10

116	Enhanced flux of chemically induced hot electrons on a Pt nanowire/Si nanodiode during decomposition of hydrogen peroxide. <i>Nanoscale Advances</i> , 2020 , 2, 4410-4416	5.1	2
115	Desolvation-Triggered Versatile Transfer-Printing of Pure BN Films with Thermal-Optical Dual Functionality. <i>Advanced Materials</i> , 2020 , 32, e2002099	24	4
114	Fabrication and Applications of 3D Nanoarchitectures for Advanced Electrocatalysts and Sensors. <i>Advanced Materials</i> , 2020 , 32, e1907500	24	10
113	Universal Synthesis of Porous Inorganic Nanosheets via Graphene-Cellulose Templating Route. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 34100-34108	9.5	7
112	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	11.5	14
111	Natural-Wood-Derived Lignosulfonate Ionomer as Multifunctional Binder for High-Performance LithiumSulfur Battery. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 17580-17586	8.3	24
110	Tuning Solute-Redistribution Dynamics for Scalable Fabrication of Colloidal Quantum-Dot Optoelectronics. <i>Advanced Materials</i> , 2019 , 31, e1805886	24	20
109	Titanium(III) Sulfide Nanoparticles Coated with Multicomponent Oxide (Ti ₃ S ₂ O ₇) as a Conductive Polysulfide Scavenger for LithiumSulfur Batteries. <i>Electronic Materials Letters</i> , 2019 , 15, 613-622	2.9	3
108	Siloxane-Encapsulated Upconversion Nanoparticle Hybrid Composite with Highly Stable Photoluminescence against Heat and Moisture. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 15952-15959	9.5	5
107	Regioregularity controlled phase behavior for Poly(3-hexylthiophene): A combined study of simple coarse-grained simulation and experiment. <i>Polymer</i> , 2019 , 178, 121569	3.9	1
106	Ultrasensitive MoS photodetector by serial nano-bridge multi-heterojunction. <i>Nature Communications</i> , 2019 , 10, 4701	17.4	35
105	Suppressing Interfacial Dipoles to Minimize Open-Circuit Voltage Loss in Quantum Dot Photovoltaics. <i>Advanced Energy Materials</i> , 2019 , 9, 1901938	21.8	8
104	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	13	22
103	Nanopatterned High-Frequency Supporting Structures Stably Eliminate Substrate Effects Imposed on Two-Dimensional Semiconductors. <i>Nano Letters</i> , 2018 , 18, 2893-2902	11.5	2
102	Photo-Reconfigurable Azopolymer Etch Mask: Photofluidization-Driven Reconfiguration and Edge Rectangularization. <i>Small</i> , 2018 , 14, e1703250	11	7
101	Palladium-Decorated Silicon Nanomesh Fabricated by Nanosphere Lithography for High Performance, Room Temperature Hydrogen Sensing. <i>Small</i> , 2018 , 14, 1703691	11	35
100	Synthesis of colloidal VO ₂ nanoparticles for thermochromic applications. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 176, 266-272	6.4	20
99	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	9.5	16

98	Spontaneous Registration of Sub-10 nm Features Based on Subzero Celsius Spin-Casting of Self-Assembling Building Blocks Directed by Chemically Encoded Surfaces. <i>ACS Nano</i> , 2018 , 12, 8224-8233	16.7	5
97	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	9.6	9
96	Plasmon-Enhanced Photodetection in Ferromagnet/Nonmagnet Spin Thermoelectric Structures. <i>Advanced Functional Materials</i> , 2018 , 28, 1802936	15.6	3
95	Molecular structure engineering of dielectric fluorinated polymers for enhanced performances of triboelectric nanogenerators. <i>Nano Energy</i> , 2018 , 53, 37-45	17.1	29
94	Extremely Small Pyrrhotite Fe S Nanocrystals with Simultaneous Carbon-Encapsulation for High-Performance Na-Ion Batteries. <i>Small</i> , 2018 , 14, 1702816	11	49
93	Individual Confinement of Block Copolymer Microdomains in Nanoscale Crossbar Templates. <i>Advanced Functional Materials</i> , 2018 , 29, 1805795	15.6	4
92	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	15.6	15
91	Direct Fabrication of Micro/Nano-Patterned Surfaces by Vertical-Directional Photofluidization of Azobenzene Materials. <i>ACS Nano</i> , 2017 , 11, 1320-1327	16.7	44
90	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	16.7	27
89	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	3.9	21
88	Regioregularity-Driven Morphological Transition of Poly(3-hexylthiophene)-Based Block Copolymers. <i>Macromolecules</i> , 2017 , 50, 1902-1908	5.5	27
87	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	2.9	8
86	Interfacial Energy-Controlled Top Coats for Gyroid/Cylinder Phase Transitions of Polystyrene-block-polydimethylsiloxane Block Copolymer Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 17427-17434	9.5	12
85	Atomic Layer Etching Mechanism of MoS for Nanodevices. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 11967-11976	9.5	59
84	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	2.9	26
83	Synthesis of poly(styrene-b-4-(tert-butyl)dimethylsiloxylstyrene) block copolymers and characterization of their self-assembled patterns. <i>Molecular Systems Design and Engineering</i> , 2017 , 2, 589-596	4.6	5
82	Long-Term Stable 2H-MoS Dispersion: Critical Role of Solvent for Simultaneous Phase Restoration and Surface Functionalization of Liquid-Exfoliated MoS. <i>ACS Omega</i> , 2017 , 2, 4678-4687	3.9	30
81	Flexible and Robust Superomniphobic Surfaces Created by Localized Photofluidization of Azopolymer Pillars. <i>ACS Nano</i> , 2017 , 11, 7821-7828	16.7	88

80	Nanotransplantation Printing of Crystallographic-Orientation-Controlled Single-Crystalline Nanowire Arrays on Diverse Surfaces. <i>ACS Nano</i> , 2017 , 11, 11642-11652	16.7	12
79	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	3.7	9
78	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	9.6	24
77	Highly Asymmetric n(+)-p Heterojunction Quantum-Dot Solar Cells with Significantly Improved Charge-Collection Efficiencies. <i>Advanced Materials</i> , 2016 , 28, 1780-7	24	20
76	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	15.6	14
75	Reliable Memristive Switching Memory Devices Enabled by Densely Packed Silver Nanocone Arrays as Electric-Field Concentrators. <i>ACS Nano</i> , 2016 , 10, 9478-9488	16.7	71
74	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	24	127
73	Sequentially Self-Assembled Rings-in-Mesh Nanoplasmonic Arrays for Surface-Enhanced Raman Spectroscopy. <i>Chemistry of Materials</i> , 2015 , 27, 5007-5013	9.6	27
72	Self-Extinguishing Lithium Ion Batteries Based on Internally Embedded Fire-Extinguishing Microcapsules with Temperature-Responsiveness. <i>Nano Letters</i> , 2015 , 15, 5059-67	11.5	63
71	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	9.6	10
70	Flexible one diode-one phase change memory array enabled by block copolymer self-assembly. <i>ACS Nano</i> , 2015 , 9, 4120-8	16.7	53
69	Enhancing the Directed Self-assembly Kinetics of Block Copolymers Using Binary Solvent Mixtures. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 25843-50	9.5	16
68	Controlled Doping of Vacancy-Containing Few-Layer MoS ₂ via Highly Stable Thiol-Based Molecular Chemisorption. <i>ACS Nano</i> , 2015 , 9, 12115-23	16.7	250
67	Single Nanoparticle Localization in the Perforated Lamellar Phase of Self-Assembled Block Copolymer Driven by Entropy Minimization. <i>Macromolecules</i> , 2015 , 48, 7938-7944	5.5	6
66	Soft Patchy Particles of Block Copolymers from Interface-Engineered Emulsions. <i>ACS Nano</i> , 2015 , 9, 11338-41	16.7	62
65	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, 4814-22	24	18
64	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	15.6	45
63	Topographically-designed triboelectric nanogenerator via block copolymer self-assembly. <i>Nano Letters</i> , 2014 , 14, 7031-8	11.5	258

62	High-resolution nanotransfer printing applicable to diverse surfaces via interface-targeted adhesion switching. <i>Nature Communications</i> , 2014 , 5, 5387	17.4	125
61	Tailoring of the PbS/metal interface in colloidal quantum dot solar cells for improvements of performance and air stability. <i>Energy and Environmental Science</i> , 2014 , 7, 3052	35.4	48
60	Reliable control of filament formation in resistive memories by self-assembled nanoinsulators derived from a block copolymer. <i>ACS Nano</i> , 2014 , 8, 9492-502	16.7	77
59	Deep-nanoscale pattern engineering by immersion-induced self-assembly. <i>ACS Nano</i> , 2014 , 8, 10009-18	16.7	39
58	Three-dimensional nanofabrication by block copolymer self-assembly. <i>Advanced Materials</i> , 2014 , 26, 4386-96	24	141
57	Extremely High Yield Conversion from Low-Cost Sand to High-Capacity Si Electrodes for Li-Ion Batteries. <i>Advanced Energy Materials</i> , 2014 , 4, 1400622	21.8	66
56	Long-range ordered self-assembly of novel acrylamide-based diblock copolymers for nanolithography and metallic nanostructure fabrication. <i>Advanced Materials</i> , 2014 , 26, 2894-900	24	10
55	Proximity injection of plasticizing molecules to self-assembling polymers for large-area, ultrafast nanopatterning in the sub-10-nm regime. <i>ACS Nano</i> , 2013 , 7, 6747-57	16.7	65
54	Host-guest self-assembly in block copolymer blends. <i>Scientific Reports</i> , 2013 , 3, 3190	4.9	29
53	Porous silicon nanowires for lithium rechargeable batteries. <i>Nanotechnology</i> , 2013 , 24, 424008	3.4	33
52	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	8.1	28
51	Localized surface plasmon-enhanced nanosensor platform using dual-responsive polymer nanocomposites. <i>Nanoscale</i> , 2013 , 5, 7403-9	7.7	14
50	Self-assembled incorporation of modulated block copolymer nanostructures in phase-change memory for switching power reduction. <i>ACS Nano</i> , 2013 , 7, 2651-8	16.7	66
49	Li ₃ V ₂ (PO ₄) ₃ /Conducting Polymer as a High Power 4 V-Class Lithium Battery Electrode. <i>Advanced Energy Materials</i> , 2013 , 3, 1004-1007	21.8	68
48	Current density enhancement nano-contact phase-change memory for low writing current. <i>Applied Physics Letters</i> , 2013 , 103, 033116	3.4	7
47	Low Power Phase Change Memory via Block Copolymer Self-assembly Technology. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1556, 1		
46	Uniform graphene quantum dots patterned from self-assembled silica nanodots. <i>Nano Letters</i> , 2012 , 12, 6078-83	11.5	165
45	Self-assembly-induced formation of high-density silicon oxide memristor nanostructures on graphene and metal electrodes. <i>Nano Letters</i> , 2012 , 12, 1235-40	11.5	78

44	Layer-structured phase-segregation of red-emitting quantum dots from green-emitting small molecule-embedded polymer film. <i>Macromolecular Research</i> , 2012 , 20, 1121-1123	1.9	
43	Tailored Li ₄ Ti ₅ O ₁₂ nanofibers with outstanding kinetics for lithium rechargeable batteries. <i>Nanoscale</i> , 2012 , 4, 6870-5	7.7	70
42	Lithium-Ion Batteries: A Stretchable Polymer/Carbon Nanotube Composite Electrode for Flexible Lithium-Ion Batteries: Porosity Engineering by Controlled Phase Separation (Adv. Energy Mater. 8/2012). <i>Advanced Energy Materials</i> , 2012 , 2, 914-914	21.8	1
41	Directed self-assembly with sub-100 degrees Celsius processing temperature, sub-10 nanometer resolution, and sub-1 minute assembly time. <i>Small</i> , 2012 , 8, 3762-8	11	73
40	Nanotransfer printing with sub-10 nm resolution realized using directed self-assembly. <i>Advanced Materials</i> , 2012 , 24, 3526-31	24	83
39	Scalable fabrication of silicon nanotubes and their application to energy storage. <i>Advanced Materials</i> , 2012 , 24, 5452-6	24	304
38	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	21.8	128
37	Highly tunable self-assembled nanostructures from a poly(2-vinylpyridine-b-dimethylsiloxane) block copolymer. <i>Nano Letters</i> , 2011 , 11, 4095-101	11.5	177
36	Complex self-assembled patterns using sparse commensurate templates with locally varying motifs. <i>Nature Nanotechnology</i> , 2010 , 5, 256-60	28.7	226
35	A path to ultranarrow patterns using self-assembled lithography. <i>Nano Letters</i> , 2010 , 10, 1000-5	11.5	212
34	Nanoimprint-induced molecular stacking and pattern stabilization in a solution-processed subphthalocyanine film. <i>ACS Nano</i> , 2010 , 4, 2627-34	16.7	13
33	Enhancing the Potential of Block Copolymer Lithography with Polymer Self-Consistent Field Theory Simulations. <i>Macromolecules</i> , 2010 , 43, 8290-8295	5.5	36
32	Formation of bandgap and subbands in graphene nanomeshes with sub-10 nm ribbon width fabricated via nanoimprint lithography. <i>Nano Letters</i> , 2010 , 10, 2454-60	11.5	267
31	Fabrication of diverse metallic nanowire arrays based on block copolymer self-assembly. <i>Nano Letters</i> , 2010 , 10, 3722-6	11.5	96
30	Solvent-Vapor-Induced Tunability of Self-Assembled Block Copolymer Patterns. <i>Advanced Materials</i> , 2009 , 21, 2540-2545	24	222
29	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. <i>Journal of Electroceramics</i> , 2009 , 23, 331-334	1.5	4
28	Cobalt nanoparticle arrays made by templated solid-state dewetting. <i>Small</i> , 2009 , 5, 860-5	11	91
27	Well-ordered thin-film nanopore arrays formed using a block-copolymer template. <i>Small</i> , 2009 , 5, 1654-91	11	70

26	Nanofabricated concentric ring structures by templated self-assembly of a diblock copolymer. <i>Nano Letters</i> , 2008 , 8, 2975-81	11.5	112
25	Nanowire conductive polymer gas sensor patterned using self-assembled block copolymer lithography. <i>Nano Letters</i> , 2008 , 8, 3776-80	11.5	181
24	Graphoepitaxy of self-assembled block copolymers on two-dimensional periodic patterned templates. <i>Science</i> , 2008 , 321, 939-43	33.3	703
23	Controlling the morphology of side chain liquid crystalline block copolymer thin films through variations in liquid crystalline content. <i>Nano Letters</i> , 2008 , 8, 3434-40	11.5	43
22	Si-containing block copolymers for self-assembled nanolithography. <i>Journal of Vacuum Science & Technology B</i> , 2008 , 26, 2489-2494		75
21	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, 073114	2.5	39
20	Orientation-controlled self-assembled nanolithography using a polystyrene-polydimethylsiloxane block copolymer. <i>Nano Letters</i> , 2007 , 7, 2046-50	11.5	386
19	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	38
18	Ferromagnetism in 200-MeV Ag ⁺ 15-ion-irradiated Co-implanted ZnO thin films. <i>Applied Physics Letters</i> , 2006 , 88, 142502	3.4	43
17	Chemical reaction of sputtered Cu film with PI modified by low energy reactive atomic beam. <i>Applied Surface Science</i> , 2006 , 252, 5877-5891	6.7	91
16	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. <i>Applied Surface Science</i> , 2006 , 252, 8121-8125	6.7	4
15	Electron transport in high quality undoped ZnO film grown by plasma-assisted molecular beam epitaxy. <i>Solid State Communications</i> , 2006 , 137, 474-477	1.6	14
14	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	1.5	2
13	Growth and properties of ZnO nanoblade and nanoflower prepared by ultrasonic pyrolysis. <i>Journal of Applied Physics</i> , 2005 , 97, 044305	2.5	61
12	A stationary plasma thruster for modification of polymer and ceramic surfaces. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005 , 239, 440-450	1.2	10
11	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	1.6	32
10	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	1.6	27
9	Influence of dc magnetron sputtering parameters on surface morphology of indium tin oxide thin films. <i>Applied Surface Science</i> , 2004 , 221, 136-142	6.7	79

8	Study on texture evolution and properties of silver thin films prepared by sputtering deposition. <i>Applied Surface Science</i> , 2004 , 221, 281-287	6.7	50
7	Spectroscopic ellipsometry studies on the optical constants of indium tin oxide films deposited under various sputtering conditions. <i>Thin Solid Films</i> , 2004 , 467, 36-42	2.2	78
6	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	1.6	21
5	Development of indium tin oxide film texture during DC magnetron sputtering deposition. <i>Journal of Crystal Growth</i> , 2003 , 259, 343-351	1.6	65
4	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	2.2	188
3	Effects of thermal treatment on the electrical and optical properties of silver-based indium tin oxide/metal/indium tin oxide structures. <i>Thin Solid Films</i> , 2003 , 440, 278-284	2.2	88
2	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	6.7	29
1	Modulation and Modeling of Three-Dimensional Nanowire Assemblies Targeting Gas Sensors with High Response and Reliability. <i>Advanced Functional Materials</i> , 2108891	15.6	2