

Hee-Tae Jung

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Spatial Control of Lithium Deposition by Controlling the Lithiophilicity with Copper(I) Oxide Boundaries. <i>Energy and Environmental Materials</i> , 2023, 6, .	12.8	2
2	Long-Range alignment of liquid crystalline small molecules on Metal-Organic framework micropores by physical anchoring. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 105, 378-383.	5.8	2
3	Synergistic Effect of Cu ₂ O Mesh Pattern on High-Facet Cu Surface for Selective CO ₂ Electroreduction to Ethanol. <i>Advanced Materials</i> , 2022, 34, e2106028.	21.0	44
4	Hierarchical Wrinkle-Structured Catalyst Layer/Membrane Interface for Ultralow Pt-Loading Polymer Electrolyte Membrane Fuel Cells (PEMFCs). <i>Nano Letters</i> , 2022, 22, 1174-1182.	9.1	12
5	Searching for an Optimal Multi-Metallic Alloy Catalyst by Active Learning Combined with Experiments. <i>Advanced Materials</i> , 2022, 34, e2108900.	21.0	19
6	The Present and Future of Gas Sensors. <i>ACS Sensors</i> , 2022, 7, 912-913.	7.8	28
7	Searching for an Optimal Multi-Metallic Alloy Catalyst by Active Learning Combined with Experiments (Adv. Mater. 19/2022). <i>Advanced Materials</i> , 2022, 34, .	21.0	4
8	Three-dimensional SnO ₂ nanoparticles synthesized by joule heating as anode materials for lithium ion batteries. <i>Nano Express</i> , 2022, 3, 025005.	2.4	2
9	Sea-Urchin-like Hierarchical Carbon Spheres with Conical Pores as a Three-Dimensional Lithium Host for Dendrite Suppression. <i>ACS Applied Energy Materials</i> , 2022, 5, 5919-5927.	5.1	0
10	n-p-Conductor Transition of Gas Sensing Behaviors in Mo ₂ CT _x MXene. <i>ACS Sensors</i> , 2022, 7, 2225-2234.	7.8	20
11	Highly enhanced tire performance achieved by using combined carbon nanotubes and soybean oil. <i>Journal of Applied Polymer Science</i> , 2021, 138, 49945.	2.6	6
12	Nanoscale Wrinkled Cu as a Current Collector for High-Loading Graphite Anode in Solid-State Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 2576-2583.	8.0	15
13	Sulfur promotes hydrogen evolution on molybdenum carbide catalysts. <i>Materials Advances</i> , 2021, 2, 4867-4875.	5.4	7
14	Scalable Superior Chemical Sensing Performance of Stretchable Ionotronic Skin via a Hole Receptor Effect. <i>Advanced Materials</i> , 2021, 33, e2007605.	21.0	25
15	Fabrication of Highly Monodisperse and Small-Grain Platinum Hole-Cylinder Nanoparticles as a Cathode Catalyst for Li ₂ O Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 2514-2521.	5.1	3
16	Polyelemental Nanoparticles as Catalysts for a Li ₂ O Battery. <i>ACS Nano</i> , 2021, 15, 4235-4244.	14.6	38
17	Gas Sensing: Scalable Superior Chemical Sensing Performance of Stretchable Ionotronic Skin via a Hole Receptor Effect (Adv. Mater. 13/2021). <i>Advanced Materials</i> , 2021, 33, 2170102.	21.0	0
18	High Facets on Nanowrinkled Cu via Chemical Vapor Deposition Graphene Growth for Efficient CO ₂ Reduction into Ethanol. <i>ACS Catalysis</i> , 2021, 11, 5658-5665.	11.2	46

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19	Extraordinary dendrite-free Li deposition on highly uniform facet wrinkled Cu substrates in carbonate electrolytes. <i>Nano Energy</i> , 2021, 82, 105736.	16.0	24
20	Cu/Cu ₂ O Interconnected Porous Aerogel Catalyst for Highly Productive Electrosynthesis of Ethanol from CO ₂ . <i>Advanced Functional Materials</i> , 2021, 31, 2102142.	14.9	90
21	Wafer-Scale Unidirectional Alignment of Supramolecular Columns on Faceted Surfaces. <i>ACS Nano</i> , 2021, 15, 11762-11769.	14.6	1
22	Etching Mechanism of Monoatomic Aluminum Layers during MXene Synthesis. <i>Chemistry of Materials</i> , 2021, 33, 6346-6355.	6.7	102
23	Graphene-based ultrafast nanofiltration membrane under cross-flow operation: Effect of high-flux and filtered solute on membrane performance. <i>Carbon</i> , 2021, 185, 641-649.	10.3	12
24	Recent Developments in Nanoporous Graphene Membranes for Organic Solvent Nanofiltration: A Short Review. <i>Membranes</i> , 2021, 11, 793.	3.0	11
25	Selective Deposition of Copper on Self-Assembled Block Copolymer Surfaces <i>via</i> Physical Vapor Deposition. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 52931-52937.	8.0	8
26	Generation of high-density nanoparticles in the carbothermal shock method. <i>Science Advances</i> , 2021, 7, eabk2984.	10.3	23
27	Eco-Friendly Water-Processable Polyimide Binders with High Adhesion to Silicon Anodes for Lithium-Ion Batteries. <i>Nanomaterials</i> , 2021, 11, 3164.	4.1	13
28	Strong Bathochromic Shift of Conjugated Polymer Nanowires Assembled with a Liquid Crystalline Alkyl Benzoic Acid via a Film Dispersion Process. <i>ACS Omega</i> , 2021, 6, 34876-34888.	3.5	1
29	Effect of Highly Periodic Au Nanopatterns on Dendrite Suppression in Lithium Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 60978-60986.	8.0	14
30	Ternary Hybrid Aerogels of g-C ₃ N ₄ /Fe ₂ O ₃ on a 3D Graphene Network: An Efficient and Recyclable Z-scheme Photocatalyst. <i>ChemPlusChem</i> , 2020, 85, 169-175.	2.8	19
31	Confined cavity on a mass-producible wrinkle film promotes selective CO ₂ reduction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 14592-14599.	10.3	16
32	Mapping Graphene Grain Orientation by the Growth of WS ₂ Films with Oriented Cracks. <i>Chemistry of Materials</i> , 2020, 32, 7484-7491.	6.7	3
33	In Situ Formation of Multiple Schottky Barriers in a Ti ₃ C ₂ MXene Film and its Application in Highly Sensitive Gas Sensors. <i>Advanced Functional Materials</i> , 2020, 30, 2003998.	14.9	187
34	Highly conductive polyimide nanocomposite prepared using a graphene oxide liquid crystal scaffold. <i>Carbon</i> , 2020, 169, 155-162.	10.3	18
35	Vertically Aligned Nanopatterns of Amine-Functionalized Ti ₃ C ₂ MXene via Soft Lithography. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000424.	3.7	20
36	Large-Area Alignment of Supramolecular Columns by Photothermal Laser Writing. <i>Advanced Materials</i> , 2020, 32, 2002620.	21.0	7

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37	High-Resolution Nanopatterning: Recent Progress in Simple and Cost-Effective Top-Down Lithography for ~ 10 nm Scale Nanopatterns: From Edge Lithography to Secondary Sputtering Lithography (Adv.) Tj ETQq1 1:10.784314rgBT /O	10.7	41
38	Highly Aligned Carbon Nanowire Array by E-Field Directed Assembly of PAN-Containing Block Copolymers. ACS Applied Materials & Interfaces, 2020, 12, 58113-58121.	8.0	6
39	Multiarray Nanopattern Electronic Nose (E-Nose) by High-Resolution Top-Down Nanolithography. Advanced Functional Materials, 2020, 30, 2002486.	14.9	40
40	Dendritic growth in a two-dimensional smectic E freely suspended film. Molecular Systems Design and Engineering, 2020, 5, 815-819.	3.4	3
41	Turbostratic nanoporous carbon sheet membrane for ultrafast and selective nanofiltration in viscous green solvents. Journal of Materials Chemistry A, 2020, 8, 8292-8299.	10.3	37
42	Recent Progress in Simple and Cost-Effective Top-Down Lithography for ~ 10 nm Scale Nanopatterns: From Edge Lithography to Secondary Sputtering Lithography. Advanced Materials, 2020, 32, e1907101.	21.0	57
43	Understanding Reaction Pathways in High Dielectric Electrolytes Using $\text{I}^2\text{-Mo}_2\text{C}$ as a Catalyst for Li^+CO_2 Batteries. ACS Applied Materials & Interfaces, 2020, 12, 32633-32641.	8.0	22
44	Hierarchical Self-Assembly of Perylene Diimide (PDI) Crystals. Journal of Physical Chemistry Letters, 2020, 11, 3934-3940.	4.6	16
45	Finding Hidden Signals in Chemical Sensors Using Deep Learning. Analytical Chemistry, 2020, 92, 6529-6537.	6.5	40
46	Polyelemental Nanolithography via Plasma Ion Bombardment: From Fabrication to Superior H_2 Sensing Application. Advanced Materials, 2019, 31, e1805343.	21.0	38
47	Interfacial Assembly of Ultrathin, Functional MXene Films. ACS Applied Materials & Interfaces, 2019, 11, 32320-32327.	8.0	91
48	Hierarchical Metal Oxide Wrinkles as Responsive Chemical Sensors. ACS Applied Nano Materials, 2019, 2, 5520-5526.	5.0	8
49	Continuous Meter-Scale Synthesis of Weavable Tunicate Cellulose/Carbon Nanotube Fibers for High-Performance Wearable Sensors. ACS Nano, 2019, 13, 9332-9341.	14.6	103
50	Ultrafast-Selective Nanofiltration of an Hybrid Membrane Comprising Laminated Reduced Graphene Oxide/Graphene Oxide Nanoribbons. ACS Applied Materials & Interfaces, 2019, 11, 27004-27010.	8.0	63
51	Flexible Two-Dimensional Ti_3C_2 MXene Films as Thermoacoustic Devices. ACS Nano, 2019, 13, 12613-12620.	14.6	53
52	Intact Crystalline Semiconducting Graphene Nanoribbons from Unzipping Nitrogen-Doped Carbon Nanotubes. ACS Applied Materials & Interfaces, 2019, 11, 38006-38015.	8.0	13
53	Relationship between Hydrogen Evolution and Wettability for Multiscale Hierarchical Wrinkles. ACS Applied Materials & Interfaces, 2019, 11, 7546-7552.	8.0	39
54	Enhanced Selectivity of MXene Gas Sensors through Metal Ion Intercalation: In Situ X-ray Diffraction Study. ACS Sensors, 2019, 4, 1365-1372.	7.8	154

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55	Facile Fabrication of High-Definition Hierarchical Wrinkle Structures for Investigating the Geometry-Sensitive Fate Commitment of Human Neural Stem Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 17247-17255.	8.0	19
56	Ten Nanometer Scale WO ₃ /CuO Heterojunction Nanochannel for an Ultrasensitive Chemical Sensor. <i>Analytical Chemistry</i> , 2019, 91, 6850-6858.	6.5	27
57	Polybenzoxazole/graphene nanocomposite for etching hardmask. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 75, 296-303.	5.8	5
58	Sub-5 nm Dendrimer Directed Self-Assembly with Large-Area Uniform Alignment by Graphoepitaxy. <i>Advanced Functional Materials</i> , 2019, 29, 1901876.	14.9	9
59	Ambient Stabilization of Few Layer Phosphorene via Noncovalent Functionalization with Surfactants: Systematic 2D NMR Characterization in Aqueous Dispersion. <i>Chemistry of Materials</i> , 2019, 31, 2786-2794.	6.7	54
60	An investigation into the factors governing the oxidation of two-dimensional Ti ₃ C ₂ MXene. <i>Nanoscale</i> , 2019, 11, 8387-8393.	5.6	276
61	Ultra-dense (~20 Tdot/in ²) nanoparticle array from an ordered supramolecular dendrimer containing a metal precursor. <i>Scientific Reports</i> , 2019, 9, 3885.	3.3	1
62	Enhanced nanofiltration performance of graphene-based membranes on wrinkled polymer supports. <i>Carbon</i> , 2019, 148, 370-377.	10.3	36
63	Graphene Oxide/Carbon Nanotube Bilayer Flexible Membrane for High-Performance Li-S Batteries with Superior Physical and Electrochemical Properties. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801992.	3.7	53
64	Formation of toroidal Li ₂ O ₂ in non-aqueous Li-O ₂ batteries with Mo ₂ CT _x MXene/CNT composite. <i>RSC Advances</i> , 2019, 9, 41120-41125.	3.6	16
65	Ultrasensitive Detection of VOCs Using a High-Resolution CuO/Cu ₂ O/Ag Nanopattern Sensor. <i>Advanced Functional Materials</i> , 2019, 29, 1808319.	14.9	117
66	Long-range single domain array of a 5 nm pattern of supramolecules <i>via</i> solvent annealing in a double-sandwich cell. <i>Nanoscale</i> , 2018, 10, 8459-8470.	5.6	8
67	An Ultrastable Ionic Chemiresistor Skin with an Intrinsically Stretchable Polymer Electrolyte. <i>Advanced Materials</i> , 2018, 30, e1706851.	21.0	75
68	Z-scheme Photocatalytic CO ₂ Conversion on Three-Dimensional BiVO ₄ /Carbon-Coated Cu ₂ O Nanowire Arrays under Visible Light. <i>ACS Catalysis</i> , 2018, 8, 4170-4177.	11.2	190
69	Highly Efficient and Stable CO ₂ Reduction Photocatalyst with a Hierarchical Structure of Mesoporous TiO ₂ on 3D Graphene with Few-Layered MoS ₂ . <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 5718-5724.	6.7	110
70	Ultrathin graphene oxide membranes on freestanding carbon nanotube supports for enhanced selective permeation in organic solvents. <i>Scientific Reports</i> , 2018, 8, 1959.	3.3	34
71	Effects of Solution Annealing on the Crystallinity and Growth of Conjugated Polymer Nanowires on a Water Substrate. <i>Crystal Growth and Design</i> , 2018, 18, 1261-1266.	3.0	8
72	Metallic Ti ₃ C ₂ T _x MXene Gas Sensors with Ultrahigh Signal-to-Noise Ratio. <i>ACS Nano</i> , 2018, 12, 986-993.	14.6	1,153

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73	A High Aspect Ratio Serpentine Structure for Use As a Strain-Insensitive, Stretchable Transparent Conductor. <i>Small</i> , 2018, 14, 1702818.	10.0	32
74	Pore-Size-Tuned Graphene Oxide Frameworks as Ion-Selective and Protective Layers on Hydrocarbon Membranes for Vanadium Redox-Flow Batteries. <i>Nano Letters</i> , 2018, 18, 3962-3968.	9.1	93
75	Universal Method for Creating Hierarchical Wrinkles on Thin-Film Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 1347-1355.	8.0	49
76	Molybdenum carbide chemical sensors with ultrahigh signal-to-noise ratios and ambient stability. <i>Journal of Materials Chemistry A</i> , 2018, 6, 23408-23416.	10.3	35
77	Edge-Functionalized Graphene Nanoribbon Chemical Sensor: Comparison with Carbon Nanotube and Graphene. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 42905-42914.	8.0	41
78	Selective Functionalization of High-Resolution Cu ₂ O Nanopatterns via Galvanic Replacement for Highly Enhanced Gas Sensing Performance. <i>Sensors</i> , 2018, 18, 4438.	3.8	6
79	Ultrasmall Grained Pd Nanopattern H ₂ Sensor. <i>ACS Sensors</i> , 2018, 3, 1876-1883.	7.8	79
80	Distinct Mechanosensing of Human Neural Stem Cells on Extremely Limited Anisotropic Cellular Contact. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 33891-33900.	8.0	31
81	Influence of graphene thickness and grain boundaries on MoS ₂ wrinkle nanostructures. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 17000-17008.	2.8	9
82	Sensors: An Ultrastable Ionic Chemiresistor Skin with an Intrinsically Stretchable Polymer Electrolyte (<i>Adv. Mater.</i> 20/2018). <i>Advanced Materials</i> , 2018, 30, 1870140.	21.0	0
83	Monolithic Polymer Nanoridges with Programmable Wetting Transitions. <i>Advanced Materials</i> , 2018, 30, e1706657.	21.0	45
84	Revealing the Role of Oxygen Debris and Functional Groups on the Water Flux and Molecular Separation of Graphene Oxide Membrane: A Combined Experimental and Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2018, 122, 17507-17517.	3.1	32
85	Springtail-inspired superomniphobic surface with extreme pressure resistance. <i>Science Advances</i> , 2018, 4, eaat4978.	10.3	112
86	Rational Design of Aminopolymer for Selective Discrimination of Acidic Air Pollutants. <i>ACS Sensors</i> , 2018, 3, 1329-1337.	7.8	14
87	Tunable Volatile-Organic-Compound Sensor by Using Au Nanoparticle Incorporation on MoS ₂ . <i>ACS Sensors</i> , 2017, 2, 183-189.	7.8	118
88	Fabrication of enzyme-based coatings on intact multi-walled carbon nanotubes as highly effective electrodes in biofuel cells. <i>Scientific Reports</i> , 2017, 7, 40202.	3.3	42
89	An Ultrasensitive, Visco-Elastic Artificial Mechanotransducer Skin Inspired by Piezo2 Protein in Mammalian Merkel Cells. <i>Advanced Materials</i> , 2017, 29, 1605973.	21.0	147
90	Artificial Skin: An Ultrasensitive, Visco-Elastic Artificial Mechanotransducer Skin Inspired by Piezo2 Protein in Mammalian Merkel Cells (<i>Adv. Mater.</i> 13/2017). <i>Advanced Materials</i> , 2017, 29, .	21.0	1

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91	Fabrication of polythiophene patterns through blending of a thermally curable polythiophene with poly(methyl methacrylate) and selective thermal curation. Chinese Journal of Polymer Science (English Edition), 2017, 35, 422-433.	3.8	4
92	Ultrafast Interfacial Self-Assembly of 2D Transition Metal Dichalcogenides Monolayer Films and Their Vertical and In-Plane Heterostructures. ACS Applied Materials & Interfaces, 2017, 9, 1021-1028.	8.0	43
93	Facile Synthesis of Composition-Controlled Graphene-Supported PtPd Alloy Nanocatalysts and Their Applications in Methanol Electro-Oxidation and Lithium-Oxygen Batteries. Chemistry - A European Journal, 2017, 23, 17136-17143.	3.3	15
94	Grafting polycarbonate onto graphene nanosheets: synthesis and characterization of high performance polycarbonate-graphene nanocomposites for ESD/EMI applications. RSC Advances, 2017, 7, 45902-45910.	3.6	18
95	Highly Periodic Metal Dichalcogenide Nanostructures with Complex Shapes, High Resolution, and High Aspect Ratios. Advanced Functional Materials, 2017, 27, 1703842.	14.9	12
96	Amine-Functionalized Graphene/CdS Composite for Photocatalytic Reduction of CO ₂ . ACS Catalysis, 2017, 7, 7064-7069.	11.2	189
97	Simultaneously Induced Self-Assembly of Poly(3-hexylthiophene) (P3HT) Nanowires and Thin-Film Fabrication via Solution-Floating Method on a Water Substrate. Advanced Materials Interfaces, 2017, 4, 1700342.	3.7	31
98	Tunable Chemical Sensing Performance of Black Phosphorus by Controlled Functionalization with Noble Metals. Chemistry of Materials, 2017, 29, 7197-7205.	6.7	117
99	One dimensional building blocks for molecular separation: laminated graphitic nanoribbons. Nanoscale, 2017, 9, 19114-19123.	5.6	27
100	Fabrication of a high-performance thin film polarizer using lyotropic chromonic liquid crystals using a high-resolution nanoscale template. Journal of Materials Chemistry C, 2017, 5, 12241-12248.	5.5	15
101	Selective Molecular Separation on Ti ₃ C ₂ T _x -Graphene Oxide Membranes during Pressure-Driven Filtration: Comparison with Graphene Oxide and MXenes. ACS Applied Materials & Interfaces, 2017, 9, 44687-44694.	8.0	193
102	Thickness Control of Chemical Vapor Deposition-Grown Graphene Film by Oxygen Plasma Etching with Recycled Use of Ni Catalyst. Journal of Nanoscience and Nanotechnology, 2017, 17, 4907-4913.	0.9	2
103	A three-dimensional metal grid mesh as a practical alternative to ITO. Nanoscale, 2016, 8, 14257-14263.	5.6	43
104	Superior Chemical Sensing Performance of Black Phosphorus: Comparison with MoS ₂ and Graphene. Advanced Materials, 2016, 28, 7020-7028.	21.0	355
105	Epitaxial Crystallization Behaviors of Various Metals on a Graphene Surface. Advanced Materials Interfaces, 2016, 3, 1500741.	3.7	6
106	Macroscopic alignment of chromonic liquid crystals using patterned substrates. Physical Chemistry Chemical Physics, 2016, 18, 10362-10366.	2.8	24
107	Large-Area Buckled MoS ₂ Films on the Graphene Substrate. ACS Applied Materials & Interfaces, 2016, 8, 13512-13519.	8.0	38
108	Enhanced Stability of Laminated Graphene Oxide Membranes for Nanofiltration via Interstitial Amide Bonding. ACS Applied Materials & Interfaces, 2016, 8, 27376-27382.	8.0	128

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109	Complex High Aspect Ratio Metal Nanostructures by Secondary Sputtering Combined with Block Copolymer Self-Assembly. <i>Advanced Materials</i> , 2016, 28, 8439-8445.	21.0	26
110	Controlling Smectic Liquid Crystal Defect Patterns by Physical Stamping-Assisted Domain Separation and Their Use as Templates for Quantum Dot Cluster Arrays. <i>Langmuir</i> , 2016, 32, 13418-13426.	3.5	13
111	Ultrastrong Anchoring on the Periodic Atomic Grooves of Black Phosphorus. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600534.	3.7	14
112	Enhanced water permeation based on nanoporous multilayer graphene membranes: the role of pore size and density. <i>Journal of Materials Chemistry A</i> , 2016, 4, 17773-17781.	10.3	71
113	Hydrous amorphous RuO ₂ nanoparticles supported on reduced graphene oxide for non-aqueous Li-O ₂ batteries. <i>RSC Advances</i> , 2016, 6, 23467-23470.	3.6	11
114	High-Resolution p-Type Metal Oxide Semiconductor Nanowire Array as an Ultrasensitive Sensor for Volatile Organic Compounds. <i>Nano Letters</i> , 2016, 16, 4508-4515.	9.1	156
115	Polymer Layer-Free Alignment for Fast Switching Nematic Liquid Crystals by Multifunctional Nanostructured Substrate. <i>Advanced Materials</i> , 2015, 27, 6760-6766.	21.0	12
116	A highly photoactive, visible-light-driven graphene/2D mesoporous TiO ₂ photocatalyst. <i>Green Chemistry</i> , 2015, 17, 3972-3978.	9.0	84
117	Periodic arrays of liquid crystalline torons in microchannels. <i>RSC Advances</i> , 2015, 5, 19279-19283.	3.6	22
118	Well-Defined and High Resolution Pt Nanowire Arrays for a High Performance Hydrogen Sensor by a Surface Scattering Phenomenon. <i>Analytical Chemistry</i> , 2015, 87, 1480-1484.	6.5	58
119	Sonication-free dispersion of large-area graphene oxide sheets using internal pressure from release of intercalated carbon dioxide. <i>Carbon</i> , 2015, 88, 126-132.	10.3	18
120	Evaluation of highly stable ultrahigh-molecular-weight partially hydrolyzed polyacrylamide for enhanced oil recovery. <i>Macromolecular Research</i> , 2015, 23, 518-524.	2.4	26
121	High mass loading, binder-free MXene anodes for high areal capacity Li-ion batteries. <i>Electrochimica Acta</i> , 2015, 163, 246-251.	5.2	204
122	Highly Enhanced Fluorescence Signals of Quantum Dot-Polymer Composite Arrays Formed by Hybridization of Ultrathin Plasmonic Au Nanowalls. <i>Nano Letters</i> , 2015, 15, 7273-7280.	9.1	38
123	Direct Observation of Highly Ordered Dendrimer Soft Building Blocks over a Large Area. <i>Nano Letters</i> , 2015, 15, 7552-7557.	9.1	19
124	Highly Enhanced Gas Adsorption Properties in Vertically Aligned MoS ₂ Layers. <i>ACS Nano</i> , 2015, 9, 9314-9321.	14.6	417
125	Electrochemical Activity Studies of Glucose Oxidase (GOx)-Based and Pyranose Oxidase (POx)-Based Electrodes in Mesoporous Carbon: Toward Biosensor and Biofuel Cell Applications. <i>Electroanalysis</i> , 2014, 26, 2075-2079.	2.9	10
126	Highly enhanced mechanical properties of polypropylene-long carbon fiber composites by a combined method of coupling agent and surface modification of long carbon fiber. <i>Macromolecular Research</i> , 2014, 22, 1066-1073.	2.4	13

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127	Role of 1D Metallic Nanowires in Polydomain Graphene for Highly Transparent Conducting Films. <i>Advanced Materials</i> , 2014, 26, 4575-4581.	21.0	43
128	Generation of Monodisperse, Shape-Controlled Single and Hybrid Core-Shell Nanoparticles via a Simple One-Step Process. <i>Advanced Functional Materials</i> , 2014, 24, 841-847.	14.9	11
129	Intercalation of Gas Molecules in Graphene Oxide Interlayer: The Role of Water. <i>Journal of Physical Chemistry C</i> , 2014, 118, 11142-11148.	3.1	83
130	Sulfur infiltrated mesoporous graphene-silica composite as a polysulfide retaining cathode material for lithium-sulfur batteries. <i>Carbon</i> , 2014, 69, 543-551.	10.3	64
131	Surface plasmon assisted high performance top-illuminated polymer solar cells with nanostructured Ag rear electrodes. <i>Journal of Materials Chemistry A</i> , 2014, 2, 2915.	10.3	19
132	Highly robust SiCOH/mesoporous SiO ₂ ultralow dielectric films with heterostructures. <i>RSC Advances</i> , 2014, 4, 28409-28416.	3.6	3
133	Fabrication of sub-20 nm nano-gap structures through the elastomeric nano-stamp assisted secondary sputtering phenomenon. <i>Nanoscale</i> , 2014, 6, 5953-5959.	5.6	9
134	Ultraclean transfer of CVD-grown graphene and its application to flexible organic photovoltaic cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20474-20480.	10.3	31
135	10 nm scale nanopatterning on flexible substrates by a secondary sputtering phenomenon and their applications in high performance, flexible and transparent conducting films. <i>Journal of Materials Chemistry C</i> , 2014, 2, 3527.	5.5	4
136	Bulk scale growth of CVD graphene on Ni nanowire foams for a highly dense and elastic 3D conducting electrode. <i>Carbon</i> , 2014, 80, 446-452.	10.3	89
137	Fabrication of 10 nm-Scale Complex 3D Nanopatterns with Multiple Shapes and Components by Secondary Sputtering Phenomenon. <i>ACS Nano</i> , 2014, 8, 1204-1212.	14.6	27
138	Hierarchical Ordering of Quantum Dots and Liquid with Tunable Super-Periodicity into High Aspect Ratio Moiré Superlattice Structure. <i>Advanced Functional Materials</i> , 2014, 24, 6939-6947.	14.9	18
139	Combining the silver nanowire bridging effect with chemical doping for highly improved conductivity of CVD-grown graphene films. <i>Journal of Materials Chemistry C</i> , 2014, 2, 5902.	5.5	22
140	Tunable Volatile Organic Compounds Sensor by Using Thiolated Ligand Conjugation on MoS ₂ . <i>Nano Letters</i> , 2014, 14, 5941-5947.	9.1	331
141	Solution-Processable Graphene-Silver Nanowire Hybrids as Transparent Conducting Films. <i>Science of Advanced Materials</i> , 2014, 6, 2304-2311.	0.7	2
142	Plasmonic three-dimensional dimpled array from highly ordered self-assembled liquid crystal defects. <i>Journal of Materials Chemistry C</i> , 2013, 1, 1434.	5.5	8
143	Micro- and nano-morphological modification of aluminum surface for adhesive bonding to polymeric composites. <i>Journal of Adhesion Science and Technology</i> , 2013, 27, 1625-1640.	2.6	14
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