

# Seokwoo Jeon

## 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.

185  
papers

11,963  
citations

49  
h-index

105  
g-index

202  
ext. papers

13,530  
ext. citations

10.8  
avg, IF

6.46  
L-index

#	Paper	IF	Citations
185	Improving intrinsic electrocatalytic activity of layered transition metal chalcogenides as electrocatalysts for water splitting. <i>Current Opinion in Electrochemistry</i> , <b>2022</b> , 34, 100982	7.2	1
184	Monolithic Lead Halide Perovskite Photoelectrochemical Cell with 9.16% Applied Bias Photon-to-Current Efficiency. <i>ACS Energy Letters</i> , <b>2022</b> , 7, 320-327	20.1	0
183	Proximity-field nanopatterning for high-performance chemical and mechanical sensor applications based on 3D nanostructures. <i>Applied Physics Reviews</i> , <b>2022</b> , 9, 011322	17.3	2
182	Rationally Designed TiO Nanostructures of Continuous Pore Network for Fast-Responding and Highly Sensitive Acetone Sensor.. <i>Small Methods</i> , <b>2021</b> , 5, e2100941	12.8	3
181	Interdigitated Three-Dimensional Heterogeneous Nanocomposites for High-Performance Mechanochromic Smart Membranes. <i>ACS Nano</i> , <b>2021</b> ,	16.7	4
180	3D ordered nanoelectrodes for energy conversion applications: thermoelectric, piezoelectric, and electrocatalytic applications. <i>Journal of the Korean Ceramic Society</i> , <b>2021</b> , 58, 379-398	2.2	10
179	Metallic phase transition metal dichalcogenide quantum dots showing different optical charge excitation and decay pathways. <i>NPG Asia Materials</i> , <b>2021</b> , 13,	10.3	1
178	Fundamental principles and development of proximity-field nanopatterning toward advanced 3D nanofabrication. <i>Nano Research</i> , <b>2021</b> , 14, 2965-2980	10	9
177	Significantly Enhanced Thermoelectric Performance of Graphene through Atomic-Scale Defect Engineering via Mobile Hot-Wire Chemical Vapor Deposition Systems. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 24304-24313	9.5	3
176	Quenching-Resistant Solid-State Photoluminescence of Graphene Quantum Dots: Reduction of $\pi$ Stacking by Surface Functionalization with POSS, PEG, and HDA. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2102741	15.6	14
175	Transparent polymer nanocomposite with three-dimensional ZnO thin-shell with high UV-shielding performance. <i>Functional Composites and Structures</i> , <b>2021</b> , 3, 025007	3.5	1
174	Multi-redox phenazine/non-oxidized graphene/cellulose nanohybrids as ultrathick cathodes for high-energy organic batteries. <i>Nano Research</i> , <b>2021</b> , 14, 1382-1389	10	7
173	Optically Activated 3D Thin-Shell TiO for Super-Sensitive Chemoresistive Responses: Toward Visible Light Activation. <i>Advanced Science</i> , <b>2021</b> , 8, 2001883	13.6	13
172	Flexible temperature sensors made of aligned electrospun carbon nanofiber films with outstanding sensitivity and selectivity towards temperature. <i>Materials Horizons</i> , <b>2021</b> , 8, 1488-1498	14.4	22
171	High-performance gas sensor array for indoor air quality monitoring: the role of Au nanoparticles on WO <sub>3</sub> , SnO <sub>2</sub> , and NiO-based gas sensors. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 1159-1167	13	37
170	Scalable Fabrication of High-Performance Thin-Shell Oxide Nanoarchitected Materials Proximity-Field Nanopatterning. <i>ACS Nano</i> , <b>2021</b> , 15, 3960-3970	16.7	7
169	Flexible Protective Film: Ultrahard, Yet Flexible Hybrid Nanocomposite Reinforced by 3D Inorganic Nanoshell Structures. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2010254	15.6	8

168	Enhanced Oxygen Evolution Reaction by Efficient Bubble Dynamics of Aligned Nonoxidized Graphene Aerogels. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 10326-10334	8.3	3
167	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
166	Toward highly efficient luminescence in graphene quantum dots for optoelectronic applications. <i>Chemical Physics Reviews</i> , <b>2021</b> , 2, 031303	4.4	9
165	Synthesis and applications of WO <sub>3</sub> nanosheets: the importance of phase, stoichiometry, and aspect ratio. <i>Nanoscale Advances</i> , <b>2021</b> , 3, 5166-5182	5.1	3
164	Continuous 3D-nanopatterned NiMo solid solution as a free-standing electrocatalyst for the hydrogen evolution reaction in alkaline medium. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 7767-7773	13	5
163	Mechanoresponsive scatterers for high-contrast optical modulation. <i>Nanophotonics</i> , <b>2021</b> ,	6.3	3
162	Complementary n-Type and p-Type Graphene Films for High Power Factor Thermoelectric Generators. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2001760	15.6	18
161	Controllable Singlet-Triplet Energy Splitting of Graphene Quantum Dots through Oxidation: From Phosphorescence to TADF. <i>Advanced Materials</i> , <b>2020</b> , 32, e2000936	24	38
160	Human skin-inspired integrated multidimensional sensors based on highly anisotropic structures. <i>Materials Horizons</i> , <b>2020</b> , 7, 2378-2389	14.4	30
159	Hierarchically porous Au nanostructures with interconnected channels for efficient mass transport in electrocatalytic CO reduction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 5680-5685	11.5	56
158	Blue Graphene Quantum Dots with High Color Purity by Controlling Subdomain Formation for Light-Emitting Devices. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 6469-6477	5.6	9
157	2D MoO <sub>3</sub> Nanosheets Synthesized by Exfoliation and Oxidation of MoS <sub>2</sub> for High Contrast and Fast Response Time Electrochromic Devices. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 11276-11282	8.3	22
156	High-Contrast Optical Modulation from Strain-Induced Nanogaps at 3D Heterogeneous Interfaces. <i>Advanced Science</i> , <b>2020</b> , 7, 1903708	13.6	24
155	Conformally Coated Nickel Phosphide on 3D, Ordered Nanoporous Nickel for Highly Active and Durable Hydrogen Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 17116-17123	8.3	14
154	2D transition metal dichalcogenide nanomaterials: advances, opportunities, and challenges in multi-functional polymer nanocomposites. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 845-883	13	47
153	Understanding the Origin of Ultrasharp Sub-bandgap Luminescence from Zero-Dimensional Inorganic Perovskite Cs <sub>4</sub> PbBr <sub>6</sub> . <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 192-199	6.1	21
152	Breaking the elastic limit of piezoelectric ceramics using nanostructures: A case study using ZnO. <i>Nano Energy</i> , <b>2020</b> , 78, 105259	17.1	13
151	Hydrogen-Assisted Fast Growth of Large Graphene Grains by Recrystallization of Nanograins. <i>ACS Omega</i> , <b>2020</b> , 5, 31502-31507	3.9	

150	Graphene Quantum Dots: Controllable Singlet-Triplet Energy Splitting of Graphene Quantum Dots through Oxidation: From Phosphorescence to TADF (Adv. Mater. 31/2020). <i>Advanced Materials</i> , <b>2020</b> , 32, 2070233	24	1
149	Blue emission at atomically sharp 1D heterojunctions between graphene and h-BN. <i>Nature Communications</i> , <b>2020</b> , 11, 5359	17.4	11
148	Focused Electric-Field Polymer Writing: Toward Ultralarge, Multistimuli-Responsive Membranes. <i>ACS Nano</i> , <b>2020</b> , 14, 12173-12183	16.7	13
147	Lattice Strain Formation through Spin-Coupled Shells of MoS <sub>2</sub> on Mo <sub>2</sub> C for Bifunctional Oxygen Reduction and Oxygen Evolution Reaction Electrocatalysts. <i>Advanced Materials Interfaces</i> , <b>2019</b> , 6, 1900948	14.6	28
146	Precious-Metal-Free Electrocatalysts for Activation of Hydrogen Evolution with Nonmetallic Electron Donor: Chemical Composition Controllable Phosphorous Doped Vanadium Carbide MXene. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1903443	15.6	66
145	Atomic Layer Deposition of Inorganic Thin Films on 3D Polymer Nanonetworks. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 1990	2.6	20
144	Highly Aligned, Anisotropic Carbon Nanofiber Films for Multidirectional Strain Sensors with Exceptional Selectivity. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1901623	15.6	75
143	Continuous 3D Titanium Nitride Nanoshell Structure for Solar-Driven Unbiased Biocatalytic CO <sub>2</sub> Reduction. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1900029	21.8	54
142	Strategies to improve the photocatalytic activity of TiO <sub>2</sub> : 3D nanostructuring and heterostructuring with graphitic carbon nanomaterials. <i>Nanoscale</i> , <b>2019</b> , 11, 7025-7040	7.7	97
141	Continuous Network of Phase-Tuned Nickel Sulfide Nanostructures for Electrocatalytic Water Splitting. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 5061-5070	5.6	26
140	High-performance functional nanocomposites using 3D ordered and continuous nanostructures generated from proximity-field nanopatterning. <i>Functional Composites and Structures</i> , <b>2019</b> , 1, 032002	3.5	19
139	Flexible thermoelectric films with high power factor made of non-oxidized graphene flakes. <i>2D Materials</i> , <b>2019</b> , 6, 045019	5.9	28
138	Rapid and Large-Scale Fabrication of Full Color Woodpile Photonic Crystals via Interference from a Conformal Multilevel Phase Mask. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1904971	15.6	15
137	Improving electrochemical active area of MoS <sub>2</sub> via attached on 3D-ordered structures for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 28143-28150	6.7	24
136	Ultrahigh resolution and color gamut with scattering-reducing transmissive pixels. <i>Nature Communications</i> , <b>2019</b> , 10, 4782	17.4	16
135	Highly Efficient UV-Visible Photocatalyst from Monolithic 3D Titania/Graphene Quantum Dot Heterostructure Linked by Aminosilane. <i>Advanced Sustainable Systems</i> , <b>2019</b> , 3, 1900084	5.9	12
134	Recent Advances in High-performance Functional Ceramics using 3D Nanostructuring Techniques. <i>Ceramist</i> , <b>2019</b> , 22, 230-242	0.3	1
133	Simultaneous Enhancement of Thermopower and Electrical Conductivity through Isovalent Substitution of Cerium in Bismuth Selenide Thermoelectric Materials. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 44026-44035	9.5	6

132	2D and 3D nanostructuring strategies for thermoelectric materials. <i>Nanoscale</i> , <b>2019</b> , 11, 19684-19699	7.7	32
131	Recent advances in lithographic fabrication of micro-/nanostructured polydimethylsiloxanes and their soft electronic applications. <i>Journal of Semiconductors</i> , <b>2019</b> , 40, 111605	2.3	18
130	Growth of graphene on non-catalytic substrate by controlling the vapor pressure of catalytic nickel. <i>Carbon</i> , <b>2019</b> , 143, 294-299	10.4	4
129	Effect of nucleation density on the crystallinity of graphene grown from mobile hot-wire-assisted CVD. <i>2D Materials</i> , <b>2019</b> , 6, 011001	5.9	6
128	Solution-phase phosphorus substitution for enhanced oxygen evolution reaction in CuWS <sub>2</sub> . <i>RSC Advances</i> , <b>2018</b> , 9, 234-239	3.7	10
127	Fluorescence Modulation of Graphene Quantum Dots Near Structured Silver Nanofilms. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 14079-14086	9.5	10
126	Anomalous thermoelectricity of pure ZnO from 3D continuous ultrathin nanoshell structures. <i>Nanoscale</i> , <b>2018</b> , 10, 3046-3052	7.7	28
125	Ferroelectric Domain Studies of Patterned (001) BiFeO <sub>3</sub> by Angle-Resolved Piezoresponse Force Microscopy. <i>Scientific Reports</i> , <b>2018</b> , 8, 203	4.9	6
124	Chemical strain formation through anion substitution in Cu <sub>2</sub> WS <sub>4</sub> for efficient electrocatalysis of water dissociation. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 7786-7793	13	37
123	Transfer-free growth of polymer-derived graphene on dielectric substrate from mobile hot-wire-assisted dual heating system. <i>Carbon</i> , <b>2018</b> , 127, 41-46	10.4	3
122	Efficient Solid-State Photoluminescence of Graphene Quantum Dots Embedded in Boron Oxynitride for AC-Electroluminescent Device. <i>Advanced Materials</i> , <b>2018</b> , 30, e1802951	24	47
121	3D nanostructured N-doped TiO <sub>2</sub> photocatalysts with enhanced visible absorption. <i>Nanoscale</i> , <b>2018</b> , 10, 9747-9751	7.7	54
120	Low-Cost Black Phosphorus Nanofillers for Improved Thermoelectric Performance in PEDOT:PSS Composite Films. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 17957-17962	9.5	29
119	Two-Dimensional WO <sub>3</sub> Nanosheets Chemically Converted from Layered WS <sub>2</sub> for High-Performance Electrochromic Devices. <i>Nano Letters</i> , <b>2018</b> , 18, 5646-5651	11.5	113
118	Compositional engineering of solution-processed BiVO <sub>4</sub> photoanodes toward highly efficient photoelectrochemical water oxidation. <i>Nano Energy</i> , <b>2018</b> , 43, 244-252	17.1	39
117	Layered Ternary and Quaternary Transition Metal Chalcogenide Based Catalysts for Water Splitting. <i>Catalysts</i> , <b>2018</b> , 8, 551	4	31
116	Highly Conductive and Fracture-Resistant Epoxy Composite Based on Non-oxidized Graphene Flake Aerogel. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 37507-37516	9.5	41
115	Emergence of New Density-Strength Scaling Law in 3D Hollow Ceramic Nanoarchitectures. <i>Small</i> , <b>2018</b> , 14, e1802239	11	19

114	Enhanced electrocatalytic activity by chemical nitridation of two-dimensional titanium carbide MXene for hydrogen evolution. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 20869-20877	13	79
113	Suppressing buoyant force: New avenue for long-term durability of oxygen evolution catalysts. <i>Nano Energy</i> , <b>2018</b> , 54, 184-191	17.1	23
112	3D ordered carbon/SnO <sub>2</sub> hybrid nanostructures for energy storage applications. <i>Electrochimica Acta</i> , <b>2018</b> , 288, 108-114	6.7	23
111	Multifunctional Polymer Nanocomposites Reinforced by 3D Continuous Ceramic Nanofillers. <i>ACS Nano</i> , <b>2018</b> , 12, 9126-9133	16.7	32
110	Extraordinary Enhancement of UV Absorption in TiO <sub>2</sub> Nanoparticles Enabled by Low-Oxidized Graphene Nanodots. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 12114-12121	3.8	17
109	Enhancing the Performance of Surface Plasmon Resonance Biosensor via Modulation of Electron Density at the Graphene/Gold Interface. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1800433	4.6	10
108	Extremely large, non-oxidized graphene flakes based on spontaneous solvent insertion into graphite intercalation compounds. <i>Carbon</i> , <b>2018</b> , 139, 309-316	10.4	17
107	Three-Dimensional Continuous Conductive Nanostructure for Highly Sensitive and Stretchable Strain Sensor. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 17369-17378	9.5	93
106	Coupled Lattice Polarization and Ferromagnetism in Multiferroic NiTiO Thin Films. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 21879-21890	9.5	16
105	Origin of extraordinary luminescence shift in graphene quantum dots with varying excitation energy: An experimental evidence of localized sp <sup>2</sup> carbon subdomain. <i>Carbon</i> , <b>2017</b> , 118, 524-530	10.4	22
104	Effects of a SnO <sub>2</sub> hole blocking layer in a BiVO <sub>4</sub> -based photoanode on photoelectrocatalytic water oxidation. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 6905-6913	13	76
103	Monolithic Bi <sub>1.5</sub> Sb <sub>0.5</sub> Te <sub>3</sub> ternary alloys with a periodic 3D nanostructure for enhancing thermoelectric performance. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 8974-8980	7.1	25
102	Long-range Stripe Nanodomains in Epitaxial (110) BiFeO Thin Films on (100) NdGaO Substrate. <i>Scientific Reports</i> , <b>2017</b> , 7, 4857	4.9	16
101	Fabrication of Nanoshell-Based 3D Periodic Structures by Templating Process using Solution-derived ZnO. <i>Nanoscale Research Letters</i> , <b>2017</b> , 12, 419	5	15
100	Strength dependence of epoxy composites on the average filler size of non-oxidized graphene flake. <i>Carbon</i> , <b>2017</b> , 113, 379-386	10.4	49
99	Analysis of contact resistance in single-walled carbon nanotube channel and graphene electrodes in a thin film transistor. <i>Nano Convergence</i> , <b>2017</b> , 4, 35	9.2	7
98	Direct Optical Fabrication of Fluorescent, Multilevel 3D Nanostructures for Highly Efficient Chemosensing Platforms. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 7170-7177	15.6	25
97	Tailored Combination of Low Dimensional Catalysts for Efficient Oxygen Reduction and Evolution in LiO <sub>2</sub> Batteries. <i>ChemSusChem</i> , <b>2016</b> , 9, 2007-2007	8.3	2

96	Tailored Combination of Low Dimensional Catalysts for Efficient Oxygen Reduction and Evolution in Li-O <sub>2</sub> Batteries. <i>ChemSusChem</i> , <b>2016</b> , 9, 2080-8	8.3	32
95	Intrinsic Photoluminescence Emission from Subdomained Graphene Quantum Dots. <i>Advanced Materials</i> , <b>2016</b> , 28, 5255-61	24	95
94	Multi-stacked electrodes employing aluminum coated tissue papers and non-oxidized graphene nanoflakes for high performance lithium-sulfur batteries. <i>RSC Advances</i> , <b>2016</b> , 6, 60537-60545	3.7	8
93	Fast P3HT Exciton Dissociation and Absorption Enhancement of Organic Solar Cells by PEG-Functionalized Graphene Quantum Dots. <i>Small</i> , <b>2016</b> , 12, 994-9	11	49
92	Tuning the electrode work function via a vapor-phase deposited ultrathin polymer film. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 831-839	7.1	9
91	Bioinspired, Highly Stretchable, and Conductive Dry Adhesives Based on 1D-2D Hybrid Carbon Nanocomposites for All-in-One ECG Electrodes. <i>ACS Nano</i> , <b>2016</b> , 10, 4770-8	16.7	252
90	Flexible Near-Field Nanopatterning with Ultrathin, Conformal Phase Masks on Nonplanar Substrates for Biomimetic Hierarchical Photonic Structures. <i>ACS Nano</i> , <b>2016</b> , 10, 4609-17	16.7	46
89	Simultaneous Exfoliation and Dispersion of Graphene/Carbon Nanotube via Intercalation Reaction and Its Application as Conductive Composite Film. <i>Composites Research</i> , <b>2016</b> , 29, 104-110		
88	Extraordinary Strong Fluorescence Evolution in Phosphor on Graphene. <i>Advanced Materials</i> , <b>2016</b> , 28, 1657-62	24	7
87	Radiation Resistant Vanadium-Graphene Nanolayered Composite. <i>Scientific Reports</i> , <b>2016</b> , 6, 24785	4.9	31
86	Controlled three-dimensional interconnected capillary structures for liquid repellency engineering. <i>RSC Advances</i> , <b>2016</b> , 6, 61909-61914	3.7	8
85	Metal-induced fluorescence properties of three-dimensionally ordered macroporous silver inverse opal platforms. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 071909	3.4	9
84	Multiphoton luminescent graphene quantum dots for in vivo tracking of human adipose-derived stem cells. <i>Nanoscale</i> , <b>2016</b> , 8, 8512-9	7.7	31
83	Design and application of carbon nanomaterials for photoactive and charge transport layers in organic solar cells. <i>Nano Convergence</i> , <b>2016</b> , 3, 8	9.2	24
82	Size and pH dependent photoluminescence of graphene quantum dots with low oxygen content. <i>RSC Advances</i> , <b>2016</b> , 6, 97990-97994	3.7	39
81	Factors Affecting the Exfoliation of Graphite Intercalation Compounds for Graphene Synthesis. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 2067-2073	9.6	50
80	Highly efficient electronic sensitization of non-oxidized graphene flakes on controlled pore-loaded WO <sub>3</sub> nanofibers for selective detection of H <sub>2</sub> S molecules. <i>Scientific Reports</i> , <b>2015</b> , 5, 8067	4.9	65
79	Moisture Barrier Composites Made of Non-Oxidized Graphene Flakes. <i>Small</i> , <b>2015</b> , 11, 3124-9	11	37

78	Bandgap Widening of Phase Quilted, 2D MoS <sub>2</sub> by Oxidative Intercalation. <i>Advanced Materials</i> , <b>2015</b> , 27, 3152-8	24	61
77	Primary hepatocyte imaging by multiphoton luminescent graphene quantum dots. <i>Chemical Communications</i> , <b>2015</b> , 51, 8041-3	5.8	25
76	A novel method for transferring graphene onto PDMS. <i>Applied Surface Science</i> , <b>2015</b> , 358, 70-74	6.7	7
75	Direct patterning and biofunctionalization of a large-area pristine graphene sheet. <i>Chemistry - an Asian Journal</i> , <b>2015</b> , 10, 568-71	4.5	9
74	Rapid, High-Resolution 3D Interference Printing of Multilevel Ultralong Nanochannel Arrays for High-Throughput Nanofluidic Transport. <i>Advanced Materials</i> , <b>2015</b> , 27, 8000-6	24	40
73	Patternable PEDOT nanofilms with grid electrodes for transparent electrochromic devices targeting thermal camouflage. <i>Nano Convergence</i> , <b>2015</b> , 2, 19	9.2	18
72	Amplification of hot electron flow by the surface plasmon effect on metal-insulator-metal nanodiodes. <i>Nanotechnology</i> , <b>2015</b> , 26, 445201	3.4	16
71	Facile synthesis of hierarchical porous WO <sub>3</sub> nanofibers having 1D nanoneedles and their functionalization with non-oxidized graphene flakes for selective detection of acetone molecules. <i>RSC Advances</i> , <b>2015</b> , 5, 7584-7588	3.7	41
70	Scalable exfoliation process for highly soluble boron nitride nanoplatelets by hydroxide-assisted ball milling. <i>Nano Letters</i> , <b>2015</b> , 15, 1238-44	11.5	379
69	Recent progress on flexible lithium rechargeable batteries. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 538-551	35.4	314
68	Enhanced durability of polymer electrolyte membrane fuel cells by functionalized 2D boron nitride nanoflakes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 7751-8	9.5	87
67	Ion-exchange mechanism of layered transition-metal oxides: case study of LiNi <sub>0.5</sub> Mn <sub>0.5</sub> O <sub>2</sub> . <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 8083-7	5.1	34
66	Generation of cellular micropatterns on a single-layered graphene film. <i>Macromolecular Bioscience</i> , <b>2014</b> , 14, 314-9	5.5	13
65	Identification of metalloporphyrins with high sensitivity using graphene-enhanced resonance Raman scattering. <i>Langmuir</i> , <b>2014</b> , 30, 2960-7	4	9
64	High-angle tilt boundary graphene domain recrystallized from mobile hot-wire-assisted chemical vapor deposition system. <i>Nano Letters</i> , <b>2014</b> , 14, 4352-9	11.5	20
63	Highly Efficient Light-Emitting Diode of Graphene Quantum Dots Fabricated from Graphite Intercalation Compounds. <i>Advanced Optical Materials</i> , <b>2014</b> , 2, 1016-1023	8.1	199
62	Rational Control of Diffraction and Interference from Conformal Phase Gratings: Toward High-Resolution 3D Nanopatterning. <i>Advanced Optical Materials</i> , <b>2014</b> , 2, 1213-1220	8.1	26
61	Conformal phase masks made of polyurethane acrylate with optimized elastic modulus for 3D nanopatterning. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 2316	7.1	33

60	Large-area metal foams with highly ordered sub-micrometer-scale pores for potential applications in energy areas. <i>Materials Letters</i> , <b>2014</b> , 129, 174-177	3.3	22
59	Enhanced conduction and charge-selectivity by N-doped graphene flakes in the active layer of bulk-heterojunction organic solar cells. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 3000	35.4	113
58	Enhanced mechanical properties of graphene/copper nanocomposites using a molecular-level mixing process. <i>Advanced Materials</i> , <b>2013</b> , 25, 6724-9	24	481
57	Bifunctional composite catalysts using Co <sub>3</sub> O <sub>4</sub> nanofibers immobilized on nonoxidized graphene nanoflakes for high-capacity and long-cycle Li-O <sub>2</sub> batteries. <i>Nano Letters</i> , <b>2013</b> , 13, 4190-7	11.5	306
56	BMP-2 peptide-functionalized nanopatterned substrates for enhanced osteogenic differentiation of human mesenchymal stem cells. <i>Biomaterials</i> , <b>2013</b> , 34, 7236-46	15.6	97
55	The effects of the crystalline orientation of Cu domains on the formation of nanoripple arrays in CVD-grown graphene on Cu. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 7819	7.1	27
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50	Tuning the photoluminescence of graphene quantum dots through the charge transfer effect of functional groups. <i>ACS Nano</i> , <b>2013</b> , 7, 1239-45	16.7	624
49	Scalable functionalized graphene nano-platelets as tunable cathodes for high-performance lithium rechargeable batteries. <i>Scientific Reports</i> , <b>2013</b> , 3, 1506	4.9	79
48	Enhanced thermal conductivity of epoxy-graphene composites by using non-oxidized graphene flakes with non-covalent functionalization. <i>Advanced Materials</i> , <b>2013</b> , 25, 732-7	24	527
47	Soft elastomeric nanopillar stamps for enhancing absorption in organic thin-film solar cells. <i>Small</i> , <b>2013</b> , 9, 369-74	11	12
46	Enhanced mechanical properties of epoxy nanocomposites by mixing noncovalently functionalized boron nitride nanoflakes. <i>Small</i> , <b>2013</b> , 9, 2602-10	11	155
45	Strengthening effect of single-atomic-layer graphene in metal-graphene nanolayered composites. <i>Nature Communications</i> , <b>2013</b> , 4, 2114	17.4	418
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40	New iron-based mixed-polyanion cathodes for lithium and sodium rechargeable batteries: combined first principles calculations and experimental study. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 10369-72	16.4	323
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38	Reversible creation of nanostructures between identical or different species of materials. <i>Applied Physics A: Materials Science and Processing</i> , <b>2012</b> , 108, 41-52	2.6	8
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36	Nano-graphite platelet loaded with LiFePO <sub>4</sub> nanoparticles used as the cathode in a high performance Li-ion battery. <i>Carbon</i> , <b>2012</b> , 50, 1966-1971	10.4	30
35	Conformal coating of titanium suboxide on carbon nanotube networks by atomic layer deposition for inverted organic photovoltaic cells. <i>Carbon</i> , <b>2012</b> , 50, 4483-4488	10.4	31
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31	Neutron and X-ray Diffraction Study of Pyrophosphate-Based Li <sub>2</sub> M <sub>2</sub> MP <sub>2</sub> O <sub>7</sub> (M = Fe, Co) for Lithium Rechargeable Battery Electrodes. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 3930-3937	9.6	92
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28	Simple preparation of high-quality graphene flakes without oxidation using potassium salts. <i>Small</i> , <b>2011</b> , 7, 864-8	11	65
27	Conformable solid-index phase masks composed of high-aspect-ratio micropillar arrays and their application to 3D nanopatterning. <i>Advanced Materials</i> , <b>2011</b> , 23, 860-4	24	56
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22	Growth of serpentine carbon nanotubes on quartz substrates and their electrical properties. <i>Nano Research</i> , <b>2008</b> , 1, 427-433	10	28
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20	Graded-Density Reservoirs for Accessing High Stress Low Temperature Material States. <i>Astrophysics and Space Science</i> , <b>2007</b> , 307, 269-272	1.6	16
19	Heterodyne apertureless near-field scanning optical microscopy on periodic gold nanowells. <i>Optics Express</i> , <b>2007</b> , 15, 4098-105	3.3	8
18	Molded transparent photopolymers and phase shift optics for fabricating three dimensional nanostructures. <i>Optics Express</i> , <b>2007</b> , 15, 6358-66	3.3	37
17	Thick, three-dimensional nanoporous density-graded materials formed by optical exposures of photopolymers with controlled levels of absorption. <i>Applied Optics</i> , <b>2007</b> , 46, 6350-4	1.7	12
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