

Seokwoo Jeon

List of Publications by Year in descending order

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193
papers

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26630

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docs citations

202
times ranked

20488
citing authors

#	ARTICLE	IF	CITATIONS
1	Unassisted overall water splitting with a solar-to-hydrogen efficiency of over 10% by coupled lead halide perovskite photoelectrodes. , 2023, 5, .		9
2	Rational Design of All Resistive Multifunctional Sensors with Stimulus Discriminability. Advanced Functional Materials, 2022, 32, .	14.9	33
3	Interdigitated Three-Dimensional Heterogeneous Nanocomposites for High-Performance Mechanochromic Smart Membranes. ACS Nano, 2022, 16, 68-77.	14.6	15
4	Improving intrinsic electrocatalytic activity of layered transition metal chalcogenides as electrocatalysts for water splitting. Current Opinion in Electrochemistry, 2022, 34, 100982.	4.8	7
5	Mechanoresponsive scatterers for high-contrast optical modulation. Nanophotonics, 2022, 11, 2737-2762.	6.0	14
6	Monolithic Lead Halide Perovskite Photoelectrochemical Cell with 9.16% Applied Bias Photon-to-Current Efficiency. ACS Energy Letters, 2022, 7, 320-327.	17.4	19
7	Proximity-field nanopatterning for high-performance chemical and mechanical sensor applications based on 3D nanostructures. Applied Physics Reviews, 2022, 9, .	11.3	10
8	Photolithographic realization of target nanostructures in 3D space by inverse design of phase modulation. Science Advances, 2022, 8, .	10.3	12
9	Improved Crystallinity of Graphene Grown on Cu/Ni (111) through Sequential Mobile Hot-Wire Heat Treatment. Nano Letters, 2022, 22, 5198-5206.	9.1	3
10	Three-Dimensional, Submicron Porous Electrode with a Density Gradient to Enhance Charge Carrier Transport. ACS Nano, 2022, 16, 9762-9771.	14.6	17
11	Boosting bifunctional oxygen electrocatalysis of graphitic C ₃ N ₄ using non-covalently functionalized non-oxidized graphene aerogels as catalyst supports. Journal of Materials Chemistry A, 2022, 10, 15689-15697.	10.3	7
12	Multi-redox phenazine/non-oxidized graphene/cellulose nanohybrids as ultrathick cathodes for high-energy organic batteries. Nano Research, 2021, 14, 1382-1389.	10.4	24
13	Optically Activated 3D Thin-Shell TiO ₂ for Super-Sensitive Chemoresistive Responses: Toward Visible Light Activation. Advanced Science, 2021, 8, 2001883.	11.2	28
14	Flexible temperature sensors made of aligned electrospun carbon nanofiber films with outstanding sensitivity and selectivity towards temperature. Materials Horizons, 2021, 8, 1488-1498.	12.2	61
15	High-performance gas sensor array for indoor air quality monitoring: the role of Au nanoparticles on WO ₃ , SnO ₂ , and NiO-based gas sensors. Journal of Materials Chemistry A, 2021, 9, 1159-1167.	10.3	141
16	3D periodic polyimide nano-networks for ultrahigh-rate and sustainable energy storage. Energy and Environmental Science, 2021, 14, 5894-5902.	30.8	26
17	Scalable Fabrication of High-Performance Thin-Shell Oxide Nanoarchitected Materials <i>via</i> Proximity-Field Nanopatterning. ACS Nano, 2021, 15, 3960-3970.	14.6	11
18	Flexible Protective Film: Ultrahard, Yet Flexible Hybrid Nanocomposite Reinforced by 3D Inorganic Nanoshell Structures. Advanced Functional Materials, 2021, 31, 2010254.	14.9	19

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19	3D ordered nanoelectrodes for energy conversion applications: thermoelectric, piezoelectric, and electrocatalytic applications. <i>Journal of the Korean Ceramic Society</i> , 2021, 58, 379-398.	2.3	12
20	Metallic phase transition metal dichalcogenide quantum dots showing different optical charge excitation and decay pathways. <i>NPG Asia Materials</i> , 2021, 13, .	7.9	10
21	Fundamental principles and development of proximity-field nanopatterning toward advanced 3D nanofabrication. <i>Nano Research</i> , 2021, 14, 2965-2980.	10.4	21
22	Significantly Enhanced Thermoelectric Performance of Graphene through Atomic-Scale Defect Engineering via Mobile Hot-Wire Chemical Vapor Deposition Systems. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 24304-24313.	8.0	8
23	Quenching-Resistant Solid-State Photoluminescence of Graphene Quantum Dots: Reduction of π - π^* Stacking by Surface Functionalization with POSS, PEG, and HDA. <i>Advanced Functional Materials</i> , 2021, 31, 2102741.	14.9	45
24	Transparent polymer nanocomposite with three-dimensional ZnO thin-shell with high UV-shielding performance. <i>Functional Composites and Structures</i> , 2021, 3, 025007.	3.4	5
25	Enhanced Oxygen Evolution Reaction by Efficient Bubble Dynamics of Aligned Nonoxidized Graphene Aerogels. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 10326-10334.	6.7	12
26	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> , 2021, 12, 5008.	12.8	83
27	Toward highly efficient luminescence in graphene quantum dots for optoelectronic applications. <i>Chemical Physics Reviews</i> , 2021, 2, .	5.7	27
28	Synthesis and applications of WO_3 nanosheets: the importance of phase, stoichiometry, and aspect ratio. <i>Nanoscale Advances</i> , 2021, 3, 5166-5182.	4.6	21
29	Continuous 3D-nanopatterned Ni-Mo solid solution as a free-standing electrocatalyst for the hydrogen evolution reaction in alkaline medium. <i>Journal of Materials Chemistry A</i> , 2021, 9, 7767-7773.	10.3	17
30	Rationally Designed TiO_2 Nanostructures of Continuous Pore Network for Fast-Responding and Highly Sensitive Acetone Sensor. <i>Small Methods</i> , 2021, 5, e2100941.	8.6	18
31	2D transition metal dichalcogenide nanomaterials: advances, opportunities, and challenges in multi-functional polymer nanocomposites. <i>Journal of Materials Chemistry A</i> , 2020, 8, 845-883.	10.3	83
32	Understanding the Origin of Ultrasharp Sub-bandgap Luminescence from Zero-Dimensional Inorganic Perovskite Cs_4PbBr_6 . <i>ACS Applied Energy Materials</i> , 2020, 3, 192-199.	5.1	36
33	Breaking the elastic limit of piezoelectric ceramics using nanostructures: A case study using ZnO. <i>Nano Energy</i> , 2020, 78, 105259.	16.0	23
34	Hydrogen-Assisted Fast Growth of Large Graphene Grains by Recrystallization of Nanograins. <i>ACS Omega</i> , 2020, 5, 31502-31507.	3.5	1
35	Graphene Quantum Dots: Controllable Singlet-Triplet Energy Splitting of Graphene Quantum Dots through Oxidation: From Phosphorescence to TADF (<i>Adv. Mater.</i> 31/2020). <i>Advanced Materials</i> , 2020, 32, 2070233.	21.0	3
36	Blue emission at atomically sharp 1D heterojunctions between graphene and h-BN. <i>Nature Communications</i> , 2020, 11, 5359.	12.8	23

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37	Focused Electric-Field Polymer Writing: Toward Ultralarge, Multistimuli-Responsive Membranes. ACS Nano, 2020, 14, 12173-12183.	14.6	18
38	Complementary n-type and p-type Graphene Films for High Power Factor Thermoelectric Generators. Advanced Functional Materials, 2020, 30, 2001760.	14.9	28
39	Controllable Singlet-Triplet Energy Splitting of Graphene Quantum Dots through Oxidation: From Phosphorescence to TADF. Advanced Materials, 2020, 32, e2000936.	21.0	86
40	Human skin-inspired integrated multidimensional sensors based on highly anisotropic structures. Materials Horizons, 2020, 7, 2378-2389.	12.2	56
41	Hierarchically porous Au nanostructures with interconnected channels for efficient mass transport in electrocatalytic CO ₂ reduction. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 5680-5685.	7.1	97
42	Blue Graphene Quantum Dots with High Color Purity by Controlling Subdomain Formation for Light-Emitting Devices. ACS Applied Nano Materials, 2020, 3, 6469-6477.	5.0	17
43	2D MoO ₃ Nanosheets Synthesized by Exfoliation and Oxidation of MoS ₂ for High Contrast and Fast Response Time Electrochromic Devices. ACS Sustainable Chemistry and Engineering, 2020, 8, 11276-11282.	6.7	51
44	High-Contrast Optical Modulation from Strain-Induced Nanogaps at 3D Heterogeneous Interfaces. Advanced Science, 2020, 7, 1903708.	11.2	36
45	Conformally Coated Nickel Phosphide on 3D, Ordered Nanoporous Nickel for Highly Active and Durable Hydrogen Evolution. ACS Sustainable Chemistry and Engineering, 2020, 8, 17116-17123.	6.7	24
46	Continuous Network of Phase-Tuned Nickel Sulfide Nanostructures for Electrocatalytic Water Splitting. ACS Applied Nano Materials, 2019, 2, 5061-5070.	5.0	48
47	High-performance functional nanocomposites using 3D ordered and continuous nanostructures generated from proximity-field nanopatterning. Functional Composites and Structures, 2019, 1, 032002.	3.4	27
48	Flexible thermoelectric films with high power factor made of non-oxidized graphene flakes. 2D Materials, 2019, 6, 045019.	4.4	39
49	Rapid and Large-Scale Fabrication of Full Color Woodpile Photonic Crystals via Interference from a Conformal Multilevel Phase Mask. Advanced Functional Materials, 2019, 29, 1904971.	14.9	24
50	Improving electrochemical active area of MoS ₂ via attached on 3D-ordered structures for hydrogen evolution reaction. International Journal of Hydrogen Energy, 2019, 44, 28143-28150.	7.1	27
51	Ultrahigh resolution and color gamut with scattering-reducing transmissive pixels. Nature Communications, 2019, 10, 4782.	12.8	29
52	Highly Efficient UV-Visible Photocatalyst from Monolithic 3D Titania/Graphene Quantum Dot Heterostructure Linked by Aminosilane. Advanced Sustainable Systems, 2019, 3, 1900084.	5.3	22
53	Lattice Strain Formation through Spin-Coupled Shells of MoS ₂ on Mo ₂ C for Bifunctional Oxygen Reduction and Oxygen Evolution Reaction Electrocatalysts. Advanced Materials Interfaces, 2019, 6, 1900948.	3.7	50
54	Solution-phase phosphorus substitution for enhanced oxygen evolution reaction in Cu ₂ WS ₄ . RSC Advances, 2019, 9, 234-239.	3.6	15

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55	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> , 2019, 29, 1903443.	14.9	125
56	Atomic Layer Deposition of Inorganic Thin Films on 3D Polymer Nanonetworks. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1990.	2.5	28
57	Highly Aligned, Anisotropic Carbon Nanofiber Films for Multidirectional Strain Sensors with Exceptional Selectivity. <i>Advanced Functional Materials</i> , 2019, 29, 1901623.	14.9	137
58	Continuous 3D Titanium Nitride Nanoshell Structure for Solar-Driven Unbiased Biocatalytic CO ₂ Reduction. <i>Advanced Energy Materials</i> , 2019, 9, 1900029.	19.5	81
59	Strategies to improve the photocatalytic activity of TiO ₂ : 3D nanostructuring and heterostructuring with graphitic carbon nanomaterials. <i>Nanoscale</i> , 2019, 11, 7025-7040.	5.6	123
60	Simultaneous Enhancement of Thermopower and Electrical Conductivity through Isovalent Substitution of Cerium in Bismuth Selenide Thermoelectric Materials. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 44026-44035.	8.0	18
61	2D and 3D nanostructuring strategies for thermoelectric materials. <i>Nanoscale</i> , 2019, 11, 19684-19699.	5.6	54
62	Recent advances in lithographic fabrication of micro-/nanostructured polydimethylsiloxanes and their soft electronic applications. <i>Journal of Semiconductors</i> , 2019, 40, 111605.	3.7	26
63	Growth of graphene on non-catalytic substrate by controlling the vapor pressure of catalytic nickel. <i>Carbon</i> , 2019, 143, 294-299.	10.3	6
64	Effect of nucleation density on the crystallinity of graphene grown from mobile hot-wire-assisted CVD. <i>2D Materials</i> , 2019, 6, 011001.	4.4	9
65	Recent Advances in High-performance Functional Ceramics using 3D Nanostructuring Techniques. <i>Ceramist</i> , 2019, 22, 230-242.	0.1	1
66	Fluorescence Modulation of Graphene Quantum Dots Near Structured Silver Nanofilms. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 14079-14086.	8.0	18
67	Anomalous thermoelectricity of pure ZnO from 3D continuous ultrathin nanoshell structures. <i>Nanoscale</i> , 2018, 10, 3046-3052.	5.6	35
68	Ferroelectric Domain Studies of Patterned (001) BiFeO ₃ by Angle-Resolved Piezoresponse Force Microscopy. <i>Scientific Reports</i> , 2018, 8, 203.	3.3	9
69	Chemical strain formation through anion substitution in Cu ₂ WS ₄ for efficient electrocatalysis of water dissociation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7786-7793.	10.3	51
70	Transfer-free growth of polymer-derived graphene on dielectric substrate from mobile hot-wire-assisted dual heating system. <i>Carbon</i> , 2018, 127, 41-46.	10.3	9
71	Compositional engineering of solution-processed BiVO ₄ photoanodes toward highly efficient photoelectrochemical water oxidation. <i>Nano Energy</i> , 2018, 43, 244-252.	16.0	57
72	Layered Ternary and Quaternary Transition Metal Chalcogenide Based Catalysts for Water Splitting. <i>Catalysts</i> , 2018, 8, 551.	3.5	45

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73	Highly Conductive and Fracture-Resistant Epoxy Composite Based on Non-oxidized Graphene Flake Aerogel. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 37507-37516.	8.0	54
74	Emergence of New Density-Strength Scaling Law in 3D Hollow Ceramic Nanoarchitectures. <i>Small</i> , 2018, 14, e1802239.	10.0	21
75	Enhanced electrocatalytic activity by chemical nitridation of two-dimensional titanium carbide MXene for hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2018, 6, 20869-20877.	10.3	133
76	Suppressing buoyant force: New avenue for long-term durability of oxygen evolution catalysts. <i>Nano Energy</i> , 2018, 54, 184-191.	16.0	33
77	3D ordered carbon/SnO ₂ hybrid nanostructures for energy storage applications. <i>Electrochimica Acta</i> , 2018, 288, 108-114.	5.2	26
78	Multifunctional Polymer Nanocomposites Reinforced by 3D Continuous Ceramic Nanofillers. <i>ACS Nano</i> , 2018, 12, 9126-9133.	14.6	44
79	Extraordinary Enhancement of UV Absorption in TiO ₂ Nanoparticles Enabled by Low-Oxidized Graphene Nanodots. <i>Journal of Physical Chemistry C</i> , 2018, 122, 12114-12121.	3.1	30
80	Enhancing the Performance of Surface Plasmon Resonance Biosensor via Modulation of Electron Density at the Graphene-Gold Interface. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800433.	3.7	23
81	Extremely large, non-oxidized graphene flakes based on spontaneous solvent insertion into graphite intercalation compounds. <i>Carbon</i> , 2018, 139, 309-316.	10.3	23
82	Efficient Solid-State Photoluminescence of Graphene Quantum Dots Embedded in Boron Oxynitride for AC-Electroluminescent Device. <i>Advanced Materials</i> , 2018, 30, e1802951.	21.0	66
83	3D nanostructured N-doped TiO ₂ photocatalysts with enhanced visible absorption. <i>Nanoscale</i> , 2018, 10, 9747-9751.	5.6	67
84	Low-Cost Black Phosphorus Nanofillers for Improved Thermoelectric Performance in PEDOT:PSS Composite Films. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 17957-17962.	8.0	42
85	Two-Dimensional WO ₃ Nanosheets Chemically Converted from Layered WS ₂ for High-Performance Electrochromic Devices. <i>Nano Letters</i> , 2018, 18, 5646-5651.	9.1	169
86	Three-Dimensional Continuous Conductive Nanostructure for Highly Sensitive and Stretchable Strain Sensor. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 17369-17378.	8.0	114
87	Coupled Lattice Polarization and Ferromagnetism in Multiferroic NiTiO ₃ Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 21879-21890.	8.0	18
88	Origin of extraordinary luminescence shift in graphene quantum dots with varying excitation energy: An experimental evidence of localized sp ² carbon subdomain. <i>Carbon</i> , 2017, 118, 524-530.	10.3	29
89	Effects of a SnO ₂ hole blocking layer in a BiVO ₄ -based photoanode on photoelectrocatalytic water oxidation. <i>Journal of Materials Chemistry A</i> , 2017, 5, 6905-6913.	10.3	107
90	Monolithic Bi _{1.5} Sb _{0.5} Te ₃ ternary alloys with a periodic 3D nanostructure for enhancing thermoelectric performance. <i>Journal of Materials Chemistry C</i> , 2017, 5, 8974-8980.	5.5	32

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91	Long-range Stripe Nanodomains in Epitaxial (110) BiFeO ₃ Thin Films on (100) NdGaO ₃ Substrate. <i>Scientific Reports</i> , 2017, 7, 4857.	3.3	23
92	Fabrication of Nanoshell-Based 3D Periodic Structures by Templating Process using Solution-derived ZnO. <i>Nanoscale Research Letters</i> , 2017, 12, 419.	5.7	16
93	Strength dependence of epoxy composites on the average filler size of non-oxidized graphene flake. <i>Carbon</i> , 2017, 113, 379-386.	10.3	63
94	Analysis of contact resistance in single-walled carbon nanotube channel and graphene electrodes in a thin film transistor. <i>Nano Convergence</i> , 2017, 4, 35.	12.1	12
95	Extraordinary Strong Fluorescence Evolution in Phosphor on Graphene. <i>Advanced Materials</i> , 2016, 28, 1657-1662.	21.0	7
96	Radiation Resistant Vanadium-Graphene Nanolayered Composite. <i>Scientific Reports</i> , 2016, 6, 24785.	3.3	41
97	Controlled three-dimensional interconnected capillary structures for liquid repellency engineering. <i>RSC Advances</i> , 2016, 6, 61909-61914.	3.6	8
98	Metal-induced fluorescence properties of three-dimensionally ordered macroporous silver inverse opal platforms. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	10
99	Multiphoton luminescent graphene quantum dots for in vivo tracking of human adipose-derived stem cells. <i>Nanoscale</i> , 2016, 8, 8512-8519.	5.6	35
100	Design and application of carbon nanomaterials for photoactive and charge transport layers in organic solar cells. <i>Nano Convergence</i> , 2016, 3, 8.	12.1	32
101	Size and pH dependent photoluminescence of graphene quantum dots with low oxygen content. <i>RSC Advances</i> , 2016, 6, 97990-97994.	3.6	49
102	Direct Optical Fabrication of Fluorescent, Multilevel 3D Nanostructures for Highly Efficient Chemosensing Platforms. <i>Advanced Functional Materials</i> , 2016, 26, 7170-7177.	14.9	28
103	Tailored Combination of Low Dimensional Catalysts for Efficient Oxygen Reduction and Evolution in Li-O ₂ Batteries. <i>ChemSusChem</i> , 2016, 9, 2007-2007.	6.8	2
104	Tailored Combination of Low Dimensional Catalysts for Efficient Oxygen Reduction and Evolution in Li-O ₂ Batteries. <i>ChemSusChem</i> , 2016, 9, 2080-2088.	6.8	39
105	Intrinsic Photoluminescence Emission from Subdomained Graphene Quantum Dots. <i>Advanced Materials</i> , 2016, 28, 5255-5261.	21.0	124
106	Multi-stacked electrodes employing aluminum coated tissue papers and non-oxidized graphene nanoflakes for high performance lithium-sulfur batteries. <i>RSC Advances</i> , 2016, 6, 60537-60545.	3.6	8
107	Fast P3HT Exciton Dissociation and Absorption Enhancement of Organic Solar Cells by PEG-Functionalized Graphene Quantum Dots. <i>Small</i> , 2016, 12, 994-999.	10.0	55
108	Tuning the electrode work function via a vapor-phase deposited ultrathin polymer film. <i>Journal of Materials Chemistry C</i> , 2016, 4, 831-839.	5.5	9

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109	Bioinspired, Highly Stretchable, and Conductive Dry Adhesives Based on 1D–2D Hybrid Carbon Nanocomposites for All-in-One ECG Electrodes. <i>ACS Nano</i> , 2016, 10, 4770-4778.	14.6	354
110	Flexible Near-Field Nanopatterning with Ultrathin, Conformal Phase Masks on Nonplanar Substrates for Biomimetic Hierarchical Photonic Structures. <i>ACS Nano</i> , 2016, 10, 4609-4617.	14.6	58
111	Simultaneous Exfoliation and Dispersion of Graphene/Carbon Nanotube via Intercalation Reaction and Its Application as Conductive Composite Film. <i>Composites Research</i> , 2016, 29, 104-110.	0.1	0
112	Rapid, High-Resolution 3D Interference Printing of Multilevel Ultralong Nanochannel Arrays for High-Throughput Nanofluidic Transport. <i>Advanced Materials</i> , 2015, 27, 8000-8006.	21.0	45
113	Patternable PEDOT nanofilms with grid electrodes for transparent electrochromic devices targeting thermal camouflage. <i>Nano Convergence</i> , 2015, 2, 19.	12.1	28
114	Amplification of hot electron flow by the surface plasmon effect on metal–insulator–metal nanodiodes. <i>Nanotechnology</i> , 2015, 26, 445201.	2.6	16
115	Facile synthesis of hierarchical porous WO ₃ nanofibers having 1D nanoneedles and their functionalization with non-oxidized graphene flakes for selective detection of acetone molecules. <i>RSC Advances</i> , 2015, 5, 7584-7588.	3.6	46
116	Scalable Exfoliation Process for Highly Soluble Boron Nitride Nanoplatelets by Hydroxide-Assisted Ball Milling. <i>Nano Letters</i> , 2015, 15, 1238-1244.	9.1	486
117	Factors Affecting the Exfoliation of Graphite Intercalation Compounds for Graphene Synthesis. <i>Chemistry of Materials</i> , 2015, 27, 2067-2073.	6.7	65
118	Highly Efficient Electronic Sensitization of Non-oxidized Graphene Flakes on Controlled Pore-loaded WO ₃ Nanofibers for Selective Detection of H ₂ S Molecules. <i>Scientific Reports</i> , 2015, 5, 8067.	3.3	70
119	Moisture Barrier Composites Made of Non-Oxidized Graphene Flakes. <i>Small</i> , 2015, 11, 3124-3129.	10.0	41
120	Bandgap Widening of Phase Quilted, 2D MoS ₂ by Oxidative Intercalation. <i>Advanced Materials</i> , 2015, 27, 3152-3158.	21.0	76
121	Primary hepatocyte imaging by multiphoton luminescent graphene quantum dots. <i>Chemical Communications</i> , 2015, 51, 8041-8043.	4.1	30
122	A novel method for transferring graphene onto PDMS. <i>Applied Surface Science</i> , 2015, 358, 70-74.	6.1	11
123	Direct Patterning and Biofunctionalization of a Large-Area Pristine Graphene Sheet. <i>Chemistry - an Asian Journal</i> , 2015, 10, 568-571.	3.3	9
124	Rational Control of Diffraction and Interference from Conformal Phase Gratings: Toward High-Resolution 3D Nanopatterning. <i>Advanced Optical Materials</i> , 2014, 2, 1213-1220.	7.3	33
125	Conformal phase masks made of polyurethane acrylate with optimized elastic modulus for 3D nanopatterning. <i>Journal of Materials Chemistry C</i> , 2014, 2, 2316.	5.5	37
126	Large-area metal foams with highly ordered sub-micrometer-scale pores for potential applications in energy areas. <i>Materials Letters</i> , 2014, 129, 174-177.	2.6	23

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127	Recent progress on flexible lithium rechargeable batteries. <i>Energy and Environmental Science</i> , 2014, 7, 538-551.	30.8	355
128	Enhanced Durability of Polymer Electrolyte Membrane Fuel Cells by Functionalized 2D Boron Nitride Nanoflakes. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 7751-7758.	8.0	106
129	Ion-Exchange Mechanism of Layered Transition-Metal Oxides: Case Study of $\text{LiNi}_{0.5}\text{Mn}_{0.5}\text{O}_2$. <i>Inorganic Chemistry</i> , 2014, 53, 8083-8087.	4.0	43
130	Generation of Cellular Micropatterns on a Single-layered Graphene Film. <i>Macromolecular Bioscience</i> , 2014, 14, 314-319.	4.1	17
131	Identification of Metalloporphyrins with High Sensitivity Using Graphene-Enhanced Resonance Raman Scattering. <i>Langmuir</i> , 2014, 30, 2960-2967.	3.5	10
132	High-Angle Tilt Boundary Graphene Domain Recrystallized from Mobile Hot-Wire-Assisted Chemical Vapor Deposition System. <i>Nano Letters</i> , 2014, 14, 4352-4359.	9.1	22
133	Highly Efficient Light-Emitting Diode of Graphene Quantum Dots Fabricated from Graphite Intercalation Compounds. <i>Advanced Optical Materials</i> , 2014, 2, 1016-1023.	7.3	229
134	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> , 2013, 6, 3000.	30.8	127
135	Enhanced Mechanical Properties of Graphene/Copper Nanocomposites Using a Molecular-Level Mixing Process. <i>Advanced Materials</i> , 2013, 25, 6724-6729.	21.0	590
136	Bifunctional Composite Catalysts Using Co_3O_4 Nanofibers Immobilized on Nonoxidized Graphene Nanoflakes for High-Capacity and Long-Cycle LiO_2 Batteries. <i>Nano Letters</i> , 2013, 13, 4190-4197.	9.1	329
137	BMP-2 peptide-functionalized nanopatterned substrates for enhanced osteogenic differentiation of human mesenchymal stem cells. <i>Biomaterials</i> , 2013, 34, 7236-7246.	11.4	109
138	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> , 2013, 1, 7819.	5.5	32
139	Wearable Textile Battery Rechargeable by Solar Energy. <i>Nano Letters</i> , 2013, 13, 5753-5761.	9.1	400
140	Monolithic 3D titania with ultrathin nanoshell structures for enhanced photocatalytic activity and recyclability. <i>Nanoscale</i> , 2013, 5, 10384.	5.6	47
141	Non-covalently functionalized single walled carbon nanotube/poly(3,4ethylenedioxythiophene):poly(styrenesulfonate) nanocomposites for organic photovoltaic cell. <i>Synthetic Metals</i> , 2013, 181, 92-97.	3.9	11
142	A self-heated silicon nanowire array: selective surface modification with catalytic nanoparticles by nanoscale Joule heating and its gas sensing applications. <i>Nanoscale</i> , 2013, 5, 6851.	5.6	50
143	Tuning the Photoluminescence of Graphene Quantum Dots through the Charge Transfer Effect of Functional Groups. <i>ACS Nano</i> , 2013, 7, 1239-1245.	14.6	745
144	Scalable Functionalized Graphene Nano-platelets as Tunable Cathodes for High-performance Lithium Rechargeable Batteries. <i>Scientific Reports</i> , 2013, 3, 1506.	3.3	84

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145	Enhanced Thermal Conductivity of Epoxy-Graphene Composites by Using Non-Oxidized Graphene Flakes with Non-Covalent Functionalization. <i>Advanced Materials</i> , 2013, 25, 732-737.	21.0	586
146	Soft Elastomeric Nanopillar Stamps for Enhancing Absorption in Organic Thin-Film Solar Cells. <i>Small</i> , 2013, 9, 369-374.	10.0	13
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