

Seokwoo Jeon

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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	Tuning the photoluminescence of graphene quantum dots through the charge transfer effect of functional groups. <i>ACS Nano</i> , 2013 , 7, 1239-45	16.7	624
184	Heterogeneous three-dimensional electronics by use of printed semiconductor nanomaterials. <i>Science</i> , 2006 , 314, 1754-7	33.3	577
183	Micro- and nanopatterning techniques for organic electronic and optoelectronic systems. <i>Chemical Reviews</i> , 2007 , 107, 1117-60	68.1	564
182	Enhanced thermal conductivity of epoxy-graphene composites by using non-oxidized graphene flakes with non-covalent functionalization. <i>Advanced Materials</i> , 2013 , 25, 732-7	24	527
181	Enhanced mechanical properties of graphene/copper nanocomposites using a molecular-level mixing process. <i>Advanced Materials</i> , 2013 , 25, 6724-9	24	481
180	Solution Casting and Transfer Printing Single-Walled Carbon Nanotube Films. <i>Nano Letters</i> , 2004 , 4, 1643-1647	16.47	423
179	Strengthening effect of single-atomic-layer graphene in metal-graphene nanolayered composites. <i>Nature Communications</i> , 2013 , 4, 2114	17.4	418
178	Scalable exfoliation process for highly soluble boron nitride nanoplatelets by hydroxide-assisted ball milling. <i>Nano Letters</i> , 2015 , 15, 1238-44	11.5	379
177	Wearable textile battery rechargeable by solar energy. <i>Nano Letters</i> , 2013 , 13, 5753-61	11.5	349
176	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> , 2012 , 134, 10369-72	16.4	323
175	Recent progress on flexible lithium rechargeable batteries. <i>Energy and Environmental Science</i> , 2014 , 7, 538-551	35.4	314
174	Bifunctional composite catalysts using Co ₃ O ₄ nanofibers immobilized on nonoxidized graphene nanoflakes for high-capacity and long-cycle Li-O ₂ batteries. <i>Nano Letters</i> , 2013 , 13, 4190-7	11.5	306
173	Versatile carbon hybrid films composed of vertical carbon nanotubes grown on mechanically compliant graphene films. <i>Advanced Materials</i> , 2010 , 22, 1247-52	24	282
172	Three-dimensional nanonetworks for giant stretchability in dielectrics and conductors. <i>Nature Communications</i> , 2012 , 3, 916	17.4	262
171	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, 4770-8	16.7	252
170	Fabricating complex three-dimensional nanostructures with high-resolution conformable phase masks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 12428-33	11.5	247
169	Highly Efficient Light-Emitting Diode of Graphene Quantum Dots Fabricated from Graphite Intercalation Compounds. <i>Advanced Optical Materials</i> , 2014 , 2, 1016-1023	8.1	199

168	Uniform graphene quantum dots patterned from self-assembled silica nanodots. <i>Nano Letters</i> , 2012 , 12, 6078-83	11.5	165
167	Hydrothermal Synthesis of Er-Doped Luminescent TiO ₂ Nanoparticles. <i>Chemistry of Materials</i> , 2003 , 15, 1256-1263	9.6	157
166	Enhanced mechanical properties of epoxy nanocomposites by mixing noncovalently functionalized boron nitride nanoflakes. <i>Small</i> , 2013 , 9, 2602-10	11	155
165	Exfoliation of non-oxidized graphene flakes for scalable conductive film. <i>Nano Letters</i> , 2012 , 12, 2871-6	11.5	145
164	Soft lithography using acryloxy perfluoropolyether composite stamps. <i>Langmuir</i> , 2007 , 23, 2898-905	4	117
163	Two-Dimensional WO Nanosheets Chemically Converted from Layered WS for High-Performance Electrochromic Devices. <i>Nano Letters</i> , 2018 , 18, 5646-5651	11.5	113
162	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	35.4	113
161	Fabricating three-dimensional nanostructures using two photon lithography in a single exposure step. <i>Optics Express</i> , 2006 , 14, 2300-8	3.3	104
160	Strategies to improve the photocatalytic activity of TiO ₂ : 3D nanostructuring and heterostructuring with graphitic carbon nanomaterials. <i>Nanoscale</i> , 2019 , 11, 7025-7040	7.7	97
159	BMP-2 peptide-functionalized nanopatterned substrates for enhanced osteogenic differentiation of human mesenchymal stem cells. <i>Biomaterials</i> , 2013 , 34, 7236-46	15.6	97
158	Intrinsic Photoluminescence Emission from Subdomained Graphene Quantum Dots. <i>Advanced Materials</i> , 2016 , 28, 5255-61	24	95
157	Three-Dimensional Continuous Conductive Nanostructure for Highly Sensitive and Stretchable Strain Sensor. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 17369-17378	9.5	93
156	Neutron and X-ray Diffraction Study of Pyrophosphate-Based Li ₂ M ₂ P ₂ O ₇ (M = Fe, Co) for Lithium Rechargeable Battery Electrodes. <i>Chemistry of Materials</i> , 2011 , 23, 3930-3937	9.6	92
155	Enhanced durability of polymer electrolyte membrane fuel cells by functionalized 2D boron nitride nanoflakes. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 7751-8	9.5	87
154	Scalable functionalized graphene nano-platelets as tunable cathodes for high-performance lithium rechargeable batteries. <i>Scientific Reports</i> , 2013 , 3, 1506	4.9	79
153	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	13	79
152	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
151	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	13	76

150	Highly Aligned, Anisotropic Carbon Nanofiber Films for Multidirectional Strain Sensors with Exceptional Selectivity. <i>Advanced Functional Materials</i> , 2019 , 29, 1901623	15.6	75
149	Optically fabricated three dimensional nanofluidic mixers for microfluidic devices. <i>Nano Letters</i> , 2005 , 5, 1351-6	11.5	70
148	Apertureless scanning near-field optical microscopy: a comparison between homodyne and heterodyne approaches. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2006 , 23, 823	1.7	67
147	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	15.6	66
146	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	4.9	65
145	Simple preparation of high-quality graphene flakes without oxidation using potassium salts. <i>Small</i> , 2011 , 7, 864-8	11	65
144	Bandgap Widening of Phase Quilted, 2D MoS ₂ by Oxidative Intercalation. <i>Advanced Materials</i> , 2015 , 27, 3152-8	24	61
143	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> , 2020 , 117, 5680-5685	11.5	56
142	Conformable solid-index phase masks composed of high-aspect-ratio micropillar arrays and their application to 3D nanopatterning. <i>Advanced Materials</i> , 2011 , 23, 860-4	24	56
141	Continuous 3D Titanium Nitride Nanoshell Structure for Solar-Driven Unbiased Biocatalytic CO ₂ Reduction. <i>Advanced Energy Materials</i> , 2019 , 9, 1900029	21.8	54
140	3D nanostructured N-doped TiO photocatalysts with enhanced visible absorption. <i>Nanoscale</i> , 2018 , 10, 9747-9751	7.7	54
139	Three-dimensional nanofabrication with elastomeric phase masks. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 12945-58	3.4	54
138	Factors Affecting the Exfoliation of Graphite Intercalation Compounds for Graphene Synthesis. <i>Chemistry of Materials</i> , 2015 , 27, 2067-2073	9.6	50
137	Fast P3HT Exciton Dissociation and Absorption Enhancement of Organic Solar Cells by PEG-Functionalized Graphene Quantum Dots. <i>Small</i> , 2016 , 12, 994-9	11	49
136	Strength dependence of epoxy composites on the average filler size of non-oxidized graphene flake. <i>Carbon</i> , 2017 , 113, 379-386	10.4	49
135	Efficient Solid-State Photoluminescence of Graphene Quantum Dots Embedded in Boron Oxynitride for AC-Electroluminescent Device. <i>Advanced Materials</i> , 2018 , 30, e1802951	24	47
134	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	13	47
133	Flexible Near-Field Nanopatterning with Ultrathin, Conformal Phase Masks on Nonplanar Substrates for Biomimetic Hierarchical Photonic Structures. <i>ACS Nano</i> , 2016 , 10, 4609-17	16.7	46

132	Soft-Contact Optical Lithography Using Transparent Elastomeric Stamps and Application to Nanopatterned Organic Light-Emitting Devices. <i>Advanced Functional Materials</i> , 2005 , 15, 1435-1439	15.6	46
131	Monolithic 3D titania with ultrathin nanoshell structures for enhanced photocatalytic activity and recyclability. <i>Nanoscale</i> , 2013 , 5, 10384-9	7.7	43
130	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, 6851-6	7.7	42
129	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	3.7	41
128	Highly Conductive and Fracture-Resistant Epoxy Composite Based on Non-oxidized Graphene Flake Aerogel. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 37507-37516	9.5	41
127	Rapid, High-Resolution 3D Interference Printing of Multilevel Ultralong Nanochannel Arrays for High-Throughput Nanofluidic Transport. <i>Advanced Materials</i> , 2015 , 27, 8000-6	24	40
126	Size and pH dependent photoluminescence of graphene quantum dots with low oxygen content. <i>RSC Advances</i> , 2016 , 6, 97990-97994	3.7	39
125	Compositional engineering of solution-processed BiVO ₄ photoanodes toward highly efficient photoelectrochemical water oxidation. <i>Nano Energy</i> , 2018 , 43, 244-252	17.1	39
124	Controllable Singlet-Triplet Energy Splitting of Graphene Quantum Dots through Oxidation: From Phosphorescence to TADF. <i>Advanced Materials</i> , 2020 , 32, e2000936	24	38
123	Moisture Barrier Composites Made of Non-Oxidized Graphene Flakes. <i>Small</i> , 2015 , 11, 3124-9	11	37
122	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	13	37
121	Molded transparent photopolymers and phase shift optics for fabricating three dimensional nanostructures. <i>Optics Express</i> , 2007 , 15, 6358-66	3.3	37
120	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. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 1159-1167	13	37
119	Three-dimensional nanostructures formed by single step, two-photon exposures through elastomeric penrose quasicrystal phase masks. <i>Nano Letters</i> , 2008 , 8, 2236-44	11.5	36
118	Ion-exchange mechanism of layered transition-metal oxides: case study of LiNi _{0.5} Mn _{0.5} O ₂ <i>Inorganic Chemistry</i> , 2014 , 53, 8083-7	5.1	34
117	Highly dispersed carbon nanotubes in organic media for polymer:fullerene photovoltaic devices. <i>Carbon</i> , 2012 , 50, 40-46	10.4	34
116	Antireflection behavior of multidimensional nanostructures patterned using a conformable elastomeric phase mask in a single exposure step. <i>Small</i> , 2010 , 6, 1981-5	11	34
115	Conformal phase masks made of polyurethane acrylate with optimized elastic modulus for 3D nanopatterning. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 2316	7.1	33

114	Tailored Combination of Low Dimensional Catalysts for Efficient Oxygen Reduction and Evolution in Li-O ₂ Batteries. <i>ChemSusChem</i> , 2016 , 9, 2080-8	8.3	32
113	2D and 3D nanostructuring strategies for thermoelectric materials. <i>Nanoscale</i> , 2019 , 11, 19684-19699	7.7	32
112	Multifunctional Polymer Nanocomposites Reinforced by 3D Continuous Ceramic Nanofillers. <i>ACS Nano</i> , 2018 , 12, 9126-9133	16.7	32
111	Conformal coating of titanium suboxide on carbon nanotube networks by atomic layer deposition for inverted organic photovoltaic cells. <i>Carbon</i> , 2012 , 50, 4483-4488	10.4	31
110	Enhanced electrical properties in carbon nanotube/poly (3-hexylthiophene) nanocomposites formed through non-covalent functionalization. <i>Nano Research</i> , 2011 , 4, 1129-1135	10	31
109	Nanopatterning with conformable phase masks. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004 , 166, 149-154	4.7	31
108	Radiation Resistant Vanadium-Graphene Nanolayered Composite. <i>Scientific Reports</i> , 2016 , 6, 24785	4.9	31
107	Multiphoton luminescent graphene quantum dots for in vivo tracking of human adipose-derived stem cells. <i>Nanoscale</i> , 2016 , 8, 8512-9	7.7	31
106	Layered Ternary and Quaternary Transition Metal Chalcogenide Based Catalysts for Water Splitting. <i>Catalysts</i> , 2018 , 8, 551	4	31
105	Human skin-inspired integrated multidimensional sensors based on highly anisotropic structures. <i>Materials Horizons</i> , 2020 , 7, 2378-2389	14.4	30
104	Nano-graphite platelet loaded with LiFePO ₄ nanoparticles used as the cathode in a high performance Li-ion battery. <i>Carbon</i> , 2012 , 50, 1966-1971	10.4	30
103	Low-Cost Black Phosphorus Nanofillers for Improved Thermoelectric Performance in PEDOT:PSS Composite Films. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 17957-17962	9.5	29
102	Lattice Strain Formation through Spin-Coupled Shells of MoS ₂ on Mo ₂ C for Bifunctional Oxygen Reduction and Oxygen Evolution Reaction Electrocatalysts. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1900948	4.6	28
101	Anomalous thermoelectricity of pure ZnO from 3D continuous ultrathin nanoshell structures. <i>Nanoscale</i> , 2018 , 10, 3046-3052	7.7	28
100	Flexible thermoelectric films with high power factor made of non-oxidized graphene flakes. <i>2D Materials</i> , 2019 , 6, 045019	5.9	28
99	Growth of serpentine carbon nanotubes on quartz substrates and their electrical properties. <i>Nano Research</i> , 2008 , 1, 427-433	10	28
98	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	7.1	27
97	Continuous Network of Phase-Tuned Nickel Sulfide Nanostructures for Electrocatalytic Water Splitting. <i>ACS Applied Nano Materials</i> , 2019 , 2, 5061-5070	5.6	26

96	Rational Control of Diffraction and Interference from Conformal Phase Gratings: Toward High-Resolution 3D Nanopatterning. <i>Advanced Optical Materials</i> , 2014 , 2, 1213-1220	8.1	26
95	Primary hepatocyte imaging by multiphoton luminescent graphene quantum dots. <i>Chemical Communications</i> , 2015 , 51, 8041-3	5.8	25
94	Direct Optical Fabrication of Fluorescent, Multilevel 3D Nanostructures for Highly Efficient Chemosensing Platforms. <i>Advanced Functional Materials</i> , 2016 , 26, 7170-7177	15.6	25
93	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	7.1	25
92	High-Contrast Optical Modulation from Strain-Induced Nanogaps at 3D Heterogeneous Interfaces. <i>Advanced Science</i> , 2020 , 7, 1903708	13.6	24
91	Improving electrochemical active area of MoS ₂ via attached on 3D-ordered structures for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 28143-28150	6.7	24
90	Design and application of carbon nanomaterials for photoactive and charge transport layers in organic solar cells. <i>Nano Convergence</i> , 2016 , 3, 8	9.2	24
89	Suppressing buoyant force: New avenue for long-term durability of oxygen evolution catalysts. <i>Nano Energy</i> , 2018 , 54, 184-191	17.1	23
88	3D ordered carbon/SnO ₂ hybrid nanostructures for energy storage applications. <i>Electrochimica Acta</i> , 2018 , 288, 108-114	6.7	23
87	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	10.4	22
86	2D MoO ₃ Nanosheets Synthesized by Exfoliation and Oxidation of MoS ₂ for High Contrast and Fast Response Time Electrochromic Devices. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 11276-11282	8.3	22
85	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	3.3	22
84	The effect of sintering conditions and ZrN volume fraction on the mechanical properties of spark plasma sintered W/ZrN composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 552, 481-485	5.3	22
83	Flexible temperature sensors made of aligned electrospun carbon nanofiber films with outstanding sensitivity and selectivity towards temperature. <i>Materials Horizons</i> , 2021 , 8, 1488-1498	14.4	22
82	Understanding the Origin of Ultrasharp Sub-bandgap Luminescence from Zero-Dimensional Inorganic Perovskite Cs ₄ PbBr ₆ . <i>ACS Applied Energy Materials</i> , 2020 , 3, 192-199	6.1	21
81	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	17.4	21
80	Atomic Layer Deposition of Inorganic Thin Films on 3D Polymer Nanonetworks. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 1990	2.6	20
79	High-angle tilt boundary graphene domain recrystallized from mobile hot-wire-assisted chemical vapor deposition system. <i>Nano Letters</i> , 2014 , 14, 4352-9	11.5	20

78	Three dimensional nanoporous density graded materials formed by optical exposures through conformable phase masks. <i>Applied Physics Letters</i> , 2006 , 89, 253101	3.4	20
77	High-performance functional nanocomposites using 3D ordered and continuous nanostructures generated from proximity-field nanopatterning. <i>Functional Composites and Structures</i> , 2019 , 1, 032002	3.5	19
76	Emergence of New Density-Strength Scaling Law in 3D Hollow Ceramic Nanoarchitectures. <i>Small</i> , 2018 , 14, e1802239	11	19
75	Complementary n-Type and p-Type Graphene Films for High Power Factor Thermoelectric Generators. <i>Advanced Functional Materials</i> , 2020 , 30, 2001760	15.6	18
74	Patternable PEDOT nanofilms with grid electrodes for transparent electrochromic devices targeting thermal camouflage. <i>Nano Convergence</i> , 2015 , 2, 19	9.2	18
73	Microstructure and mechanical properties of SiC-nanowire-augmented tungsten composites. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 9060-9064	5.7	18
72	Tunable organic transistors that use microfluidic source and drain electrodes. <i>Applied Physics Letters</i> , 2003 , 83, 2067-2069	3.4	18
71	Recent advances in lithographic fabrication of micro-/nanostructured polydimethylsiloxanes and their soft electronic applications. <i>Journal of Semiconductors</i> , 2019 , 40, 111605	2.3	18
70	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	3.8	17
69	Extremely large, non-oxidized graphene flakes based on spontaneous solvent insertion into graphite intercalation compounds. <i>Carbon</i> , 2018 , 139, 309-316	10.4	17
68	Coupled Lattice Polarization and Ferromagnetism in Multiferroic NiTiO Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 21879-21890	9.5	16
67	Ultrahigh resolution and color gamut with scattering-reducing transmissive pixels. <i>Nature Communications</i> , 2019 , 10, 4782	17.4	16
66	Long-range Stripe Nanodomains in Epitaxial (110) BiFeO Thin Films on (100) NdGaO Substrate. <i>Scientific Reports</i> , 2017 , 7, 4857	4.9	16
65	Amplification of hot electron flow by the surface plasmon effect on metal-insulator-metal nanodiodes. <i>Nanotechnology</i> , 2015 , 26, 445201	3.4	16
64	Graded-Density Reservoirs for Accessing High Stress Low Temperature Material States. <i>Astrophysics and Space Science</i> , 2007 , 307, 269-272	1.6	16
63	Rapid and Large-Scale Fabrication of Full Color Woodpile Photonic Crystals via Interference from a Conformal Multilevel Phase Mask. <i>Advanced Functional Materials</i> , 2019 , 29, 1904971	15.6	15
62	Fabrication of Nanoshell-Based 3D Periodic Structures by Templating Process using Solution-derived ZnO. <i>Nanoscale Research Letters</i> , 2017 , 12, 419	5	15
61	Conformally Coated Nickel Phosphide on 3D, Ordered Nanoporous Nickel for Highly Active and Durable Hydrogen Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 17116-17123	8.3	14

60	Quenching-Resistant Solid-State Photoluminescence of Graphene Quantum Dots: Reduction of π Stacking by Surface Functionalization with POSS, PEG, and HDA. <i>Advanced Functional Materials</i> , 2021 , 31, 2102741	15.6	14
59	Generation of cellular micropatterns on a single-layered graphene film. <i>Macromolecular Bioscience</i> , 2014 , 14, 314-9	5.5	13
58	Proximity field nanopatterning of azopolymer thin films. <i>Nanotechnology</i> , 2010 , 21, 165301	3.4	13
57	Breaking the elastic limit of piezoelectric ceramics using nanostructures: A case study using ZnO. <i>Nano Energy</i> , 2020 , 78, 105259	17.1	13
56	Focused Electric-Field Polymer Writing: Toward Ultralarge, Multistimuli-Responsive Membranes. <i>ACS Nano</i> , 2020 , 14, 12173-12183	16.7	13
55	Optically Activated 3D Thin-Shell TiO for Super-Sensitive Chemoresistive Responses: Toward Visible Light Activation. <i>Advanced Science</i> , 2021 , 8, 2001883	13.6	13
54	Highly Efficient UV/Visible Photocatalyst from Monolithic 3D Titania/Graphene Quantum Dot Heterostructure Linked by Aminosilane. <i>Advanced Sustainable Systems</i> , 2019 , 3, 1900084	5.9	12
53	Soft elastomeric nanopillar stamps for enhancing absorption in organic thin-film solar cells. <i>Small</i> , 2013 , 9, 369-74	11	12
52	Thick, three-dimensional nanoporous density-graded materials formed by optical exposures of photopolymers with controlled levels of absorption. <i>Applied Optics</i> , 2007 , 46, 6350-4	1.7	12
51	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	3.6	11
50	Blue emission at atomically sharp 1D heterojunctions between graphene and h-BN. <i>Nature Communications</i> , 2020 , 11, 5359	17.4	11
49	Solution-phase phosphorus substitution for enhanced oxygen evolution reaction in CuWS ₂ . <i>RSC Advances</i> , 2018 , 9, 234-239	3.7	10
48	Fluorescence Modulation of Graphene Quantum Dots Near Structured Silver Nanofilms. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 14079-14086	9.5	10
47	3D ordered nanoelectrodes for energy conversion applications: thermoelectric, piezoelectric, and electrocatalytic applications. <i>Journal of the Korean Ceramic Society</i> , 2021 , 58, 379-398	2.2	10
46	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	4.6	10
45	Direct patterning and biofunctionalization of a large-area pristine graphene sheet. <i>Chemistry - an Asian Journal</i> , 2015 , 10, 568-71	4.5	9
44	Blue Graphene Quantum Dots with High Color Purity by Controlling Subdomain Formation for Light-Emitting Devices. <i>ACS Applied Nano Materials</i> , 2020 , 3, 6469-6477	5.6	9
43	Tuning the electrode work function via a vapor-phase deposited ultrathin polymer film. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 831-839	7.1	9

42	Identification of metalloporphyrins with high sensitivity using graphene-enhanced resonance Raman scattering. <i>Langmuir</i> , 2014 , 30, 2960-7	4	9
41	Fundamental principles and development of proximity-field nanopatterning toward advanced 3D nanofabrication. <i>Nano Research</i> , 2021 , 14, 2965-2980	10	9
40	Metal-induced fluorescence properties of three-dimensionally ordered macroporous silver inverse opal platforms. <i>Applied Physics Letters</i> , 2016 , 108, 071909	3.4	9
39	Toward highly efficient luminescence in graphene quantum dots for optoelectronic applications. <i>Chemical Physics Reviews</i> , 2021 , 2, 031303	4.4	9
38	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	3.7	8
37	Reversible creation of nanostructures between identical or different species of materials. <i>Applied Physics A: Materials Science and Processing</i> , 2012 , 108, 41-52	2.6	8
36	Heterodyne apertureless near-field scanning optical microscopy on periodic gold nanowells. <i>Optics Express</i> , 2007 , 15, 4098-105	3.3	8
35	Controlled three-dimensional interconnected capillary structures for liquid repellency engineering. <i>RSC Advances</i> , 2016 , 6, 61909-61914	3.7	8
34	Flexible Protective Film: Ultrahard, Yet Flexible Hybrid Nanocomposite Reinforced by 3D Inorganic Nanoshell Structures. <i>Advanced Functional Materials</i> , 2021 , 31, 2010254	15.6	8
33	A novel method for transferring graphene onto PDMS. <i>Applied Surface Science</i> , 2015 , 358, 70-74	6.7	7
32	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	9.2	7
31	Extraordinary Strong Fluorescence Evolution in Phosphor on Graphene. <i>Advanced Materials</i> , 2016 , 28, 1657-62	24	7
30	Multi-redox phenazine/non-oxidized graphene/cellulose nanohybrids as ultrathick cathodes for high-energy organic batteries. <i>Nano Research</i> , 2021 , 14, 1382-1389	10	7
29	Scalable Fabrication of High-Performance Thin-Shell Oxide Nanoarchitected Materials Proximity-Field Nanopatterning. <i>ACS Nano</i> , 2021 , 15, 3960-3970	16.7	7
28	Ferroelectric Domain Studies of Patterned (001) BiFeO by Angle-Resolved Piezoresponse Force Microscopy. <i>Scientific Reports</i> , 2018 , 8, 203	4.9	6
27	Rational Design of All Resistive Multifunctional Sensors with Stimulus Discriminability. <i>Advanced Functional Materials</i> , 2107570	15.6	6
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25	Effect of nucleation density on the crystallinity of graphene grown from mobile hot-wire-assisted CVD. <i>2D Materials</i> , 2019 , 6, 011001	5.9	6

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23	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> , 2021 , 9, 7767-7773	13	5
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18	Helix-coiled gold nanowires for molecular sensing. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 3501-5	1.3	3
17	Rationally Designed TiO Nanostructures of Continuous Pore Network for Fast-Responding and Highly Sensitive Acetone Sensor.. <i>Small Methods</i> , 2021 , 5, e2100941	12.8	3
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15	Enhanced Oxygen Evolution Reaction by Efficient Bubble Dynamics of Aligned Nonoxidized Graphene Aerogels. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 10326-10334	8.3	3
14	Synthesis and applications of WO ₃ nanosheets: the importance of phase, stoichiometry, and aspect ratio. <i>Nanoscale Advances</i> , 2021 , 3, 5166-5182	5.1	3
13	Mechanoresponsive scatterers for high-contrast optical modulation. <i>Nanophotonics</i> , 2021 ,	6.3	3
12	Tailored Combination of Low Dimensional Catalysts for Efficient Oxygen Reduction and Evolution in LiO ₂ Batteries. <i>ChemSusChem</i> , 2016 , 9, 2007-2007	8.3	2
11	Simultaneously grown single wall carbon nanotube channel and electrodes in a thin film transistor. <i>MRS Communications</i> , 2012 , 2, 79-83	2.7	2
10	Proximity-field nanopatterning for high-performance chemical and mechanical sensor applications based on 3D nanostructures. <i>Applied Physics Reviews</i> , 2022 , 9, 011322	17.3	2
9	Recent Advances in High-performance Functional Ceramics using 3D Nanostructuring Techniques. <i>Ceramist</i> , 2019 , 22, 230-242	0.3	1
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7	Metallic phase transition metal dichalcogenide quantum dots showing different optical charge excitation and decay pathways. <i>NPG Asia Materials</i> , 2021 , 13,	10.3	1

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