List of Publications by Year in descending order

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TAE HEE HAN

#	Article	IF	CITATIONS
1	Noncovalent functionalization of graphene with end-functional polymers. Journal of Materials Chemistry, 2010, 20, 1907.	6.7	553
2	Graphene Oxide Liquid Crystals. Angewandte Chemie - International Edition, 2011, 50, 3043-3047.	7.2	534
3	25th Anniversary Article: Chemically Modified/Doped Carbon Nanotubes & Graphene for Optimized Nanostructures & Nanodevices. Advanced Materials, 2014, 26, 40-67.	11.1	479
4	Nitrogen-doped carbon nanotubes and graphene composite structures for energy and catalytic applications. Chemical Communications, 2014, 50, 6818.	2.2	428
5	Versatile Carbon Hybrid Films Composed of Vertical Carbon Nanotubes Grown on Mechanically Compliant Graphene Films. Advanced Materials, 2010, 22, 1247-1252.	11.1	307
6	Steam Etched Porous Graphene Oxide Network for Chemical Sensing. Journal of the American Chemical Society, 2011, 133, 15264-15267.	6.6	292
7	Peptide/Graphene Hybrid Assembly into Core/Shell Nanowires. Advanced Materials, 2010, 22, 2060-2064.	11.1	248
8	Room-Temperature, Highly Durable Ti ₃ C ₂ T _{<i>x</i>} MXene/Graphene Hybrid Fibers for NH ₃ Gas Sensing. ACS Applied Materials & Interfaces, 2020, 12, 10434-10442.	4.0	247
9	Vertical ZnO nanowires/graphene hybrids for transparent and flexible field emission. Journal of Materials Chemistry, 2011, 21, 3432-3437.	6.7	227
10	Large-scale wet-spinning of highly electroconductive MXene fibers. Nature Communications, 2020, 11, 2825.	5.8	212
11	Hydration-Responsive Folding and Unfolding in Graphene Oxide Liquid Crystal Phases. ACS Nano, 2011, 5, 8019-8025.	7.3	201
12	Fabrication and Electrochemical Characterization of TiO ₂ Three-Dimensional Nanonetwork Based on Peptide Assembly. ACS Nano, 2009, 3, 1085-1090.	7.3	195
13	Role of Water in Directing Diphenylalanine Assembly into Nanotubes and Nanowires. Advanced Materials, 2010, 22, 583-587.	11.1	187
14	Biomineralized N-Doped CNT/TiO ₂ Core/Shell Nanowires for Visible Light Photocatalysis. ACS Nano, 2012, 6, 935-943.	7.3	186
15	Mechanisms of Two-Electron and Four-Electron Electrochemical Oxygen Reduction Reactions at Nitrogen-Doped Reduced Graphene Oxide. ACS Catalysis, 2020, 10, 852-863.	5.5	184
16	Highly Electroconductive and Mechanically Strong Ti ₃ C ₂ T _{<i>x</i>} MXene Fibers Using a Deformable MXene Gel. ACS Nano, 2021, 15, 3320-3329.	7.3	177
17	N-doped graphitic self-encapsulation for high performance silicon anodes in lithium-ion batteries. Energy and Environmental Science, 2014, 7, 621-626.	15.6	137
18	Graphene oxide liquid crystals: a frontier 2D soft material for graphene-based functional materials. Chemical Society Reviews, 2018, 47, 6013-6045.	18.7	121

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19	Liquid Crystalline Peptide Nanowires. Advanced Materials, 2007, 19, 3924-3927.	11.1	99
20	A plasmonic biosensor array by block copolymer lithography. Journal of Materials Chemistry, 2010, 20, 7241.	6.7	96
21	2D Ti ₃ C ₂ MXene/WO ₃ Hybrid Architectures for Highâ€Rate Supercapacitors. Advanced Materials Interfaces, 2018, 5, 1801361.	1.9	95
22	Dynamic assembly of liquid crystalline graphene oxide gel fibers for ion transport. Science Advances, 2018, 4, eaau2104.	4.7	90
23	Copper Shell Networks in Polymer Composites for Efficient Thermal Conduction. ACS Applied Materials & amp; Interfaces, 2013, 5, 11618-11622.	4.0	89
24	Carbon Defect Characterization of Nitrogen-Doped Reduced Graphene Oxide Electrocatalysts for the Two-Electron Oxygen Reduction Reaction. Chemistry of Materials, 2019, 31, 3967-3973.	3.2	85
25	Exploring Graphene Quantum Dots/TiO2 interface in photoelectrochemical reactions: Solar to fuel conversion. Electrochimica Acta, 2016, 187, 249-255.	2.6	79
26	Porous Graphene-Carbon Nanotube Scaffolds for Fiber Supercapacitors. ACS Applied Materials & Interfaces, 2019, 11, 9011-9022.	4.0	79
27	Hierarchically Ordered Polymer Films by Templated Organization of Aqueous Droplets. Advanced Functional Materials, 2007, 17, 2315-2320.	7.8	72
28	Grapheneâ€Mimicking 2D Porous Co ₃ O ₄ Nanofoils for Lithium Battery Applications. Advanced Functional Materials, 2016, 26, 7605-7613.	7.8	68
29	Bionanosphere Lithography via Hierarchical Peptide Selfâ€Assembly of Aromatic Triphenylalanine. Small, 2010, 6, 945-951.	5.2	63
30	Surfaceâ€2D/Bulkâ€3D Heterophased Perovskite Nanograins for Longâ€Termâ€Stable Lightâ€Emitting Diodes. Advanced Materials, 2020, 32, e1905674.	11.1	59
31	A facile route to fabricate stable reduced graphene oxide dispersions in various media and their transparent conductive thin films. Journal of Colloid and Interface Science, 2012, 383, 36-42.	5.0	57
32	Extreme properties of double networked ionogel electrolytes for flexible and durable energy storage devices. Energy Storage Materials, 2019, 19, 197-205.	9.5	54
33	Highly entangled hollow TiO2 nanoribbons templating diphenylalanine assembly. Journal of Materials Chemistry, 2009, 19, 3512.	6.7	50
34	RTA-Treated Carbon Fiber/Copper Core/Shell Hybrid for Thermally Conductive Composites. ACS Applied Materials & Interfaces, 2014, 6, 7498-7503.	4.0	50
35	Direct Growth of Polyaniline Chains from Nâ€Doped Sites of Carbon Nanotubes. Small, 2013, 9, 3829-3833	5.2	49
36	Large Scale Synthesis and Light Emitting Fibers of Tailor-Made Graphene Quantum Dots. Scientific Reports, 2015, 5, 14163.	1.6	48

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37	Stiffening of graphene oxide films by soft porous sheets. Nature Communications, 2019, 10, 3677.	5.8	48
38	Ultrathin polypyrrole nanosheets doped with HCl as counter electrodes in dye-sensitized solar cells. Journal of Materials Chemistry A, 2014, 2, 859-865.	5.2	47
39	Joule heating-induced sp2-restoration in graphene fibers. Carbon, 2019, 142, 230-237.	5.4	46
40	Sub-nanometer confinement enables facile condensation of gas electrolyte for low-temperature batteries. Nature Communications, 2021, 12, 3395.	5.8	42
41	Tunable Electronic Properties of Nitrogen and Sulfur Doped Graphene: Density Functional Theory Approach. Nanomaterials, 2019, 9, 268.	1.9	39
42	A graphene quantum dot/phthalocyanine conjugate: a synergistic catalyst for the oxygen reduction reaction. RSC Advances, 2017, 7, 26113-26119.	1.7	37
43	Peptide-templating dye-sensitized solar cells. Nanotechnology, 2010, 21, 185601.	1.3	36
44	The effect of diverse metal oxides in graphene composites on the adsorption isotherm of gaseous benzene. Environmental Research, 2019, 172, 367-374.	3.7	36
45	Ultrafast flashlight sintered mesoporous NiO nanosheets for stable asymmetric supercapacitors. Chemical Engineering Journal, 2022, 436, 135041.	6.6	35
46	Hierarchical assembly of diphenylalanine into dendritic nanoarchitectures. Colloids and Surfaces B: Biointerfaces, 2010, 79, 440-445.	2.5	33
47	Biomimetic mineralization of vertical N-doped carbon nanotubes. Chemical Communications, 2011, 47, 535-537.	2.2	31
48	Three-dimensional Gd-doped TiO ₂ fibrous photoelectrodes for efficient visible light-driven photocatalytic performance. RSC Advances, 2014, 4, 11750-11757.	1.7	31
49	Graphene quantum dots/graphene fiber nanochannels for osmotic power generation. Journal of Materials Chemistry A, 2019, 7, 23727-23732.	5.2	30
50	Tailored nanoplateau and nanochannel structures using solution-processed rutile TiO ₂ thin films for complementary and bipolar switching characteristics. Nanoscale, 2019, 11, 13815-13823.	2.8	30
51	Holey graphene oxide membranes containing both nanopores and nanochannels for highly efficient harvesting of water evaporation energy. Chemical Engineering Journal, 2022, 430, 132759.	6.6	30
52	Carbon nanotube-reduced graphene oxide fiber with high torsional strength from rheological hierarchy control. Nature Communications, 2021, 12, 396.	5.8	29
53	Metal-assisted mechanochemical reduction of graphene oxide. Carbon, 2016, 110, 79-86.	5.4	24
54	Strengthening and Stiffening Graphene Oxide Fiber with Trivalent Metal Ion Binders. Particle and Particle Systems Characterization, 2017, 34, 1600401.	1.2	24

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55	Facile hybridization of graphene oxide and Cu2O for high-performance electrochemical supercapacitors. Macromolecular Research, 2014, 22, 809-812.	1.0	22
56	Three-dimensionally stacked Al2O3/graphene oxide for gas barrier applications. Carbon, 2017, 125, 464-471.	5.4	21
57	Morphology Control of One-Dimensional Peptide Nanostructures. Journal of Nanoscience and Nanotechnology, 2008, 8, 5547-5550.	0.9	20
58	Enhanced thermal conductivity of epoxy/Cu-plated carbon fiber fabric composites. Macromolecular Research, 2017, 25, 559-564.	1.0	19
59	Photonic split-second induced mesoporous TiO2-Graphene architectures for efficient sodium-ion batteries. Carbon, 2021, 178, 332-344.	5.4	19
60	Sulfonated Graphene Oxide/Nafion Composite Membrane for Vanadium Redox Flow Battery. Journal of Nanoscience and Nanotechnology, 2014, 14, 9073-9077.	0.9	17
61	High-Temperature Stable Anatase Titanium Oxide Nanofibers for Lithium-Ion Battery Anodes. ACS Applied Materials & Interfaces, 2017, 9, 25332-25338.	4.0	17
62	Effects of dietary energy and crude protein levels on growth performance, blood profiles, and nutrient digestibility in weaning pigs. Asian-Australasian Journal of Animal Sciences, 2019, 32, 556-563.	2.4	16
63	Super-Expansion of Assembled Reduced Graphene Oxide Interlayers by Segregation of Al Nanoparticle Pillars for High-Capacity Na-Ion Battery Anodes. ACS Applied Materials & Interfaces, 2020, 12, 23781-23788.	4.0	16
64	Effects of dietary energy and crude protein levels on growth performance, blood profiles, and carcass traits in growing-finishing pigs. Journal of Animal Science and Technology, 2019, 61, 204-215.	0.8	16
65	High performance dye-sensitized solar cells using graphene modified fluorine-doped tin oxide glass by Langmuir–Blodgett technique. Journal of Solid State Chemistry, 2015, 224, 71-75.	1.4	15
66	Kinetically controlled low-temperature solution-processed mesoporous rutile TiO2 for high performance lithium-ion batteries. Journal of Industrial and Engineering Chemistry, 2019, 80, 667-676.	2.9	15
67	Effect of metal/metal oxide catalysts on graphene fiber for improved NO2 sensing. Sensors and Actuators B: Chemical, 2021, 344, 130231.	4.0	15
68	Elaborating Nitrogen and Oxygen Dopants Configurations within Graphene Electrocatalysts for Two-Electron Oxygen Reduction. , 2022, 4, 320-328.		15
69	Photoâ€Triggered Shape Reconfiguration in Stretchable Reduced Graphene Oxideâ€Patterned Azobenzeneâ€Functionalized Liquid Crystalline Polymer Networks. Advanced Functional Materials, 2021, 31, 2102106.	7.8	14
70	Microstructure-Controlled Polyacrylonitrile/Graphene Fibers over 1 Gigapascal Strength. ACS Nano, 2021, 15, 13055-13064.	7.3	14
71	Sizeâ€Dependent Isotropic/Nematic Phase Transition Behavior of Liquid Crystalline Peptide Nanowires. Macromolecular Chemistry and Physics, 2009, 210, 1283-1290.	1.1	13
72	A graphene-phthalocyanine hybrid as a next photoactive layer. Carbon, 2017, 119, 476-482.	5.4	12

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73	Improved Oxygen Diffusion Barrier Properties of Ruthenium-Titanium Nitride Thin Films Prepared by Plasma-Enhanced Atomic Layer Deposition. Journal of Nanoscience and Nanotechnology, 2011, 11, 671-674.	0.9	11
74	Styrenic block copolymer/sulfonated graphene oxide composite membranes for highly bendable ionic polymer actuators with large ion concentration gradient. Composites Science and Technology, 2018, 163, 63-70.	3.8	11
75	Graphene Electrodes for Artificial Muscles. Molecular Crystals and Liquid Crystals, 2011, 539, 260/[600]-265/[605].	0.4	10
76	Graphene Oxide as a Novel Nanoplatform for Direct Hybridization of Graphene-SnO2. Bulletin of the Korean Chemical Society, 2013, 34, 3269-3273.	1.0	10
77	Thermal shrinkage of chemically recycled and virgin poly(ethylene terephthalate) blends. Macromolecular Research, 2014, 22, 782-787.	1.0	9
78	Graphene Foam Cantilever Produced via Simultaneous Foaming and Doping Effect of an Organic Coagulant. ACS Applied Materials & Interfaces, 2020, 12, 10763-10771.	4.0	9
79	Highly electroconductive lightweight graphene fibers with high current-carrying capacity fabricated via sequential continuous electrothermal annealing. Chemical Engineering Journal, 2021, 414, 128803.	6.6	9
80	Influence of various levels of milk by-products in weaner diets on growth performance, blood urea nitrogen, diarrhea incidence, and pork quality of weaning to finishing pigs. Asian-Australasian Journal of Animal Sciences, 2018, 31, 696-704.	2.4	9
81	Exfoliation of titanium oxide powder into nanosheets using hydrothermal reaction and its reassembly into flexible papers for thin-film capacitors. Journal of Solid State Chemistry, 2015, 224, 76-81.	1.4	8
82	Facile and Ecofriendly Fluorination of Graphene Oxide. Bulletin of the Korean Chemical Society, 2014, 35, 2139-2142.	1.0	8
83	Carbon: 25th Anniversary Article: Chemically Modified/Doped Carbon Nanotubes & Graphene for Optimized Nanostructures & Nanodevices (Adv. Mater. 1/2014). Advanced Materials, 2014, 26, 2-2.	11.1	7
84	Effects of wheat supplementation levels on growth performance, blood profiles, nutrient digestibility, and pork quality in growing-finishing pigs. Asian-Australasian Journal of Animal Sciences, 2017, 30, 1150-1159.	2.4	7
85	Peeling mechanism of interlocked interface between etched acrylonitrile-butadiene-styrene and electroplated metal layer. Surfaces and Interfaces, 2021, 26, 101337.	1.5	7
86	Sub-Second Joule-Heated RuO ₂ -Decorated Nitrogen- and Sulfur-Doped Graphene Fibers for Flexible Fiber-type Supercapacitors. ACS Applied Materials & Interfaces, 2022, 14, 29867-29877.	4.0	7
87	Direct hybridization of tin oxide/graphene nanocomposites for highly efficient lithium-ion battery anodes. Journal of Electroceramics, 2014, 33, 195-201.	0.8	6
88	Capillarity Induced Large Area Patterning of Peptide Nanowires. Journal of Nanoscience and Nanotechnology, 2010, 10, 6954-6957.	0.9	5
89	Synthesis and characterization of poly(butylene succinate)-reduced graphene oxide composite through in-situ melt polymerization. Journal of Polymer Research, 2017, 24, 1.	1.2	5
90	Novel Hybridization Approaches for Graphene-Based Nanocomposites. Science of Advanced Materials, 2015, 7, 1962-1978.	0.1	5

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91	Effects of dietary vitamin levels on physiological responses, blood profiles, and reproductive performance in gestating sows. Journal of Animal Science and Technology, 2019, 61, 294-303.	0.8	5
92	Rheological Investigation of Relaxation Behavior of Polycarbonate/Acrylonitrile-Butadiene-Styrene Blends. Polymers, 2020, 12, 1916.	2.0	4
93	Effects of blend composition on the morphologies and physical properties of polycarbonate/acrylonitrileâ€butadieneâ€styrene blends. Journal of Applied Polymer Science, 2021, 138, 50404.	1.3	4
94	Vertical Arrays of Photoluminescent Alq3Nanotubes on Flexible Substrates by Vapor Deposition. Molecular Crystals and Liquid Crystals, 2014, 602, 193-199.	0.4	3
95	Direct Assembly of Graphene Oxide on Flexible Substrates for Highly Transparent Electrodes via the Langmuir-Blodgett Technique. Journal of Nanoscience and Nanotechnology, 2015, 15, 1191-1194.	0.9	3
96	Rapid gas-induced detachable rGO/MnO debonding layer for flexible electronic applications. Carbon, 2019, 146, 756-762.	5.4	3
97	Comparison of the strength of various disposable videolaryngoscope blades. Canadian Journal of Anaesthesia, 2021, 68, 1651-1658.	0.7	3
98	Delamination of Graphene/ZnO interlayer driven by photocatalytic effect for flexible a-IGZO TFT applications. Applied Surface Science, 2022, 571, 151358.	3.1	3
99	Aqueous-processable surface modified graphite with manganese oxide for lithium-ion battery anode. Applied Surface Science, 2020, 526, 146720.	3.1	3
100	A novel load balancing method for multi-core with non-uniform memory architecture. , 2010, , .		2
101	Dynamic Self-Repair Architectures for Defective Through-silicon Vias. ETRI Journal, 2014, 36, 301-308.	1.2	2
102	LbL Assembled sPPO Composite Membrane Containing GO for DMFC Applications. Molecular Crystals and Liquid Crystals, 2014, 598, 16-22.	0.4	2
103	Spherulitic Assembly of Peptide Nanowires via Spontaneous Crystallization. Journal of Nanoscience and Nanotechnology, 2014, 14, 8800-8803.	0.9	1
104	Ultrafast photo-annealed carbon-coated SiO2 sphere electrodes for NO2 gas sensing. Carbon, 2020, 162, 562-569.	5.4	1
105	High-Strain PVC Film Plasticized by TiOâ,, Nanoparticles. Porrime, 2017, 41, 992-997.	0.0	0