

Tae Hee Han

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103
papers

5,708
citations

36
h-index

75
g-index

110
ext. papers

6,510
ext. citations

9.5
avg, IF

5.77
L-index

#	Paper	IF	Citations
103	Noncovalent functionalization of graphene with end-functional polymers. <i>Journal of Materials Chemistry</i> , 2010 , 20, 1907		491
102	Graphene oxide liquid crystals. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 3043-7	16.4	453
101	25th anniversary article: Chemically modified/doped carbon nanotubes & graphene for optimized nanostructures & nanodevices. <i>Advanced Materials</i> , 2014 , 26, 40-66	24	432
100	Nitrogen-doped carbon nanotubes and graphene composite structures for energy and catalytic applications. <i>Chemical Communications</i> , 2014 , 50, 6818-30	5.8	361
99	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
98	Steam etched porous graphene oxide network for chemical sensing. <i>Journal of the American Chemical Society</i> , 2011 , 133, 15264-7	16.4	267
97	Peptide/graphene hybrid assembly into core/shell nanowires. <i>Advanced Materials</i> , 2010 , 22, 2060-4	24	230
96	Vertical ZnO nanowires/graphene hybrids for transparent and flexible field emission. <i>Journal of Materials Chemistry</i> , 2011 , 21, 3432-3437		216
95	Fabrication and electrochemical characterization of TiO ₂ three-dimensional nanonetwork based on peptide assembly. <i>ACS Nano</i> , 2009 , 3, 1085-90	16.7	183
94	Hydration-responsive folding and unfolding in graphene oxide liquid crystal phases. <i>ACS Nano</i> , 2011 , 5, 8019-25	16.7	174
93	Biomineralized N-doped CNT/TiO ₂ core/shell nanowires for visible light photocatalysis. <i>ACS Nano</i> , 2012 , 6, 935-43	16.7	167
92	Role of water in directing diphenylalanine assembly into nanotubes and nanowires. <i>Advanced Materials</i> , 2010 , 22, 583-7	24	156
91	N-doped graphitic self-encapsulation for high performance silicon anodes in lithium-ion batteries. <i>Energy and Environmental Science</i> , 2014 , 7, 621-626	35.4	127
90	Room-Temperature, Highly Durable TiCT MXene/Graphene Hybrid Fibers for NH ₃ Gas Sensing. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 10434-10442	9.5	113
89	Liquid Crystalline Peptide Nanowires. <i>Advanced Materials</i> , 2007 , 19, 3924-3927	24	95
88	Graphene oxide liquid crystals: a frontier 2D soft material for graphene-based functional materials. <i>Chemical Society Reviews</i> , 2018 , 47, 6013-6045	58.5	88
87	Large-scale wet-spinning of highly electroconductive MXene fibers. <i>Nature Communications</i> , 2020 , 11, 2825	17.4	86

86	Mechanisms of Two-Electron and Four-Electron Electrochemical Oxygen Reduction Reactions at Nitrogen-Doped Reduced Graphene Oxide. <i>ACS Catalysis</i> , 2020 , 10, 852-863	13.1	86
85	A plasmonic biosensor array by block copolymer lithography. <i>Journal of Materials Chemistry</i> , 2010 , 20, 7241		82
84	Copper shell networks in polymer composites for efficient thermal conduction. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 11618-22	9.5	76
83	Hierarchically Ordered Polymer Films by Templated Organization of Aqueous Droplets. <i>Advanced Functional Materials</i> , 2007 , 17, 2315-2320	15.6	67
82	Dynamic assembly of liquid crystalline graphene oxide gel fibers for ion transport. <i>Science Advances</i> , 2018 , 4, eaau2104	14.3	63
81	Exploring Graphene Quantum Dots/TiO ₂ interface in photoelectrochemical reactions: Solar to fuel conversion. <i>Electrochimica Acta</i> , 2016 , 187, 249-255	6.7	60
80	Porous Graphene-Carbon Nanotube Scaffolds for Fiber Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 9011-9022	9.5	59
79	Graphene-Mimicking 2D Porous Co ₃ O ₄ Nanofoils for Lithium Battery Applications. <i>Advanced Functional Materials</i> , 2016 , 26, 7605-7613	15.6	58
78	Bionanosphere lithography via hierarchical peptide self-assembly of aromatic triphenylalanine. <i>Small</i> , 2010 , 6, 945-51	11	57
77	2D Ti ₃ C ₂ MXene/WO ₃ Hybrid Architectures for High-Rate Supercapacitors. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1801361	4.6	56
76	Carbon Defect Characterization of Nitrogen-Doped Reduced Graphene Oxide Electrocatalysts for the Two-Electron Oxygen Reduction Reaction. <i>Chemistry of Materials</i> , 2019 , 31, 3967-3973	9.6	53
75	A facile route to fabricate stable reduced graphene oxide dispersions in various media and their transparent conductive thin films. <i>Journal of Colloid and Interface Science</i> , 2012 , 383, 36-42	9.3	53
74	Highly entangled hollow TiO ₂ nanoribbons templating diphenylalanine assembly. <i>Journal of Materials Chemistry</i> , 2009 , 19, 3512		49
73	Ultrathin polypyrrole nanosheets doped with HCl as counter electrodes in dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 859-865	13	44
72	Highly Electroconductive and Mechanically Strong TiCT MXene Fibers Using a Deformable MXene Gel. <i>ACS Nano</i> , 2021 , 15, 3320-3329	16.7	43
71	RTA-treated carbon fiber/copper core/shell hybrid for thermally conductive composites. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 7498-503	9.5	42
70	Direct growth of polyaniline chains from N-doped sites of carbon nanotubes. <i>Small</i> , 2013 , 9, 3829-33	11	42
69	Large Scale Synthesis and Light Emitting Fibers of Tailor-Made Graphene Quantum Dots. <i>Scientific Reports</i> , 2015 , 5, 14163	4.9	41

68	Graphene Oxide Liquid Crystals. <i>Angewandte Chemie</i> , 2011 , 123, 3099-3103	3.6	39
67	Surface-2D/Bulk-3D Heterophased Perovskite Nanograins for Long-Term-Stable Light-Emitting Diodes. <i>Advanced Materials</i> , 2020 , 32, e1905674	24	36
66	Peptide-templating dye-sensitized solar cells. <i>Nanotechnology</i> , 2010 , 21, 185601	3.4	32
65	Extreme properties of double networked ionogel electrolytes for flexible and durable energy storage devices. <i>Energy Storage Materials</i> , 2019 , 19, 197-205	19.4	30
64	A graphene quantum dot/phthalocyanine conjugate: a synergistic catalyst for the oxygen reduction reaction. <i>RSC Advances</i> , 2017 , 7, 26113-26119	3.7	29
63	Biomimetic mineralization of vertical N-doped carbon nanotubes. <i>Chemical Communications</i> , 2011 , 47, 535-7	5.8	28
62	Hierarchical assembly of diphenylalanine into dendritic nanoarchitectures. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010 , 79, 440-5	6	28
61	Joule heating-induced sp ² -restoration in graphene fibers. <i>Carbon</i> , 2019 , 142, 230-237	10.4	27
60	Three-dimensional Gd-doped TiO ₂ fibrous photoelectrodes for efficient visible light-driven photocatalytic performance. <i>RSC Advances</i> , 2014 , 4, 11750-11757	3.7	26
59	The effect of diverse metal oxides in graphene composites on the adsorption isotherm of gaseous benzene. <i>Environmental Research</i> , 2019 , 172, 367-374	7.9	24
58	Tunable Electronic Properties of Nitrogen and Sulfur Doped Graphene: Density Functional Theory Approach. <i>Nanomaterials</i> , 2019 , 9,	5.4	24
57	Stiffening of graphene oxide films by soft porous sheets. <i>Nature Communications</i> , 2019 , 10, 3677	17.4	23
56	Facile hybridization of graphene oxide and Cu ₂ O for high-performance electrochemical supercapacitors. <i>Macromolecular Research</i> , 2014 , 22, 809-812	1.9	21
55	Metal-assisted mechanochemical reduction of graphene oxide. <i>Carbon</i> , 2016 , 110, 79-86	10.4	21
54	Strengthening and Stiffening Graphene Oxide Fiber with Trivalent Metal Ion Binders. <i>Particle and Particle Systems Characterization</i> , 2017 , 34, 1600401	3.1	20
53	Graphene quantum dots/graphene fiber nanochannels for osmotic power generation. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 23727-23732	13	17
52	Morphology control of one-dimensional peptide nanostructures. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 5547-50	1.3	17
51	Three-dimensionally stacked Al ₂ O ₃ /graphene oxide for gas barrier applications. <i>Carbon</i> , 2017 , 125, 464-471	4.1	16

50	Sub-nanometer confinement enables facile condensation of gas electrolyte for low-temperature batteries. <i>Nature Communications</i> , 2021 , 12, 3395	17.4	16
49	Tailored nanoplateau and nanochannel structures using solution-processed rutile TiO thin films for complementary and bipolar switching characteristics. <i>Nanoscale</i> , 2019 , 11, 13815-13823	7.7	15
48	High-Temperature Stable Anatase Titanium Oxide Nanofibers for Lithium-Ion Battery Anodes. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 25332-25338	9.5	13
47	Sulfonated graphene oxide/nafion composite membrane for vanadium redox flow battery. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 9073-7	1.3	13
46	A graphene-phthalocyanine hybrid as a next photoactive layer. <i>Carbon</i> , 2017 , 119, 476-482	10.4	12
45	Enhanced thermal conductivity of epoxy/Cu-plated carbon fiber fabric composites. <i>Macromolecular Research</i> , 2017 , 25, 559-564	1.9	12
44	High performance dye-sensitized solar cells using graphene modified fluorine-doped tin oxide glass by LangmuirBlodgett technique. <i>Journal of Solid State Chemistry</i> , 2015 , 224, 71-75	3.3	11
43	Size-Dependent Isotropic/Nematic Phase Transition Behavior of Liquid Crystalline Peptide Nanowires. <i>Macromolecular Chemistry and Physics</i> , 2009 , 210, 1283-1290	2.6	11
42	Kinetically controlled low-temperature solution-processed mesoporous rutile TiO ₂ for high performance lithium-ion batteries. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 80, 667-676	6.3	10
41	Super-Expansion of Assembled Reduced Graphene Oxide Interlayers by Segregation of Al Nanoparticle Pillars For High-Capacity Na-Ion Battery Anodes. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 23781-23788	9.5	10
40	Graphene Oxide as a Novel Nanoplatfrom for Direct Hybridization of Graphene-SnO ₂ . <i>Bulletin of the Korean Chemical Society</i> , 2013 , 34, 3269-3273	1.2	10
39	Carbon nanotube-reduced graphene oxide fiber with high torsional strength from rheological hierarchy control. <i>Nature Communications</i> , 2021 , 12, 396	17.4	10
38	Graphene Electrodes for Artificial Muscles. <i>Molecular Crystals and Liquid Crystals</i> , 2011 , 539, 260/[600]-265/[605]	6.5	10
37	Improved oxygen diffusion barrier properties of ruthenium-titanium nitride thin films prepared by plasma-enhanced atomic layer deposition. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 671-4	1.3	9
36	Photonic split-second induced mesoporous TiO ₂ -Graphene architectures for efficient sodium-ion batteries. <i>Carbon</i> , 2021 , 178, 332-344	10.4	9
35	Facile and Ecofriendly Fluorination of Graphene Oxide. <i>Bulletin of the Korean Chemical Society</i> , 2014 , 35, 2139-2142	1.2	8
34	Exfoliation of titanium oxide powder into nanosheets using hydrothermal reaction and its reassembly into flexible papers for thin-film capacitors. <i>Journal of Solid State Chemistry</i> , 2015 , 224, 76-81	3.3	7
33	Effects of dietary energy and crude protein levels on growth performance, blood profiles, and carcass traits in growing-finishing pigs. <i>Journal of Animal Science and Technology</i> , 2019 , 61, 204-215	1.6	7

32	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. <i>Asian-Australasian Journal of Animal Sciences</i> , 2018 , 31, 696-704	2.4	7
31	Effects of dietary energy and crude protein levels on growth performance, blood profiles, and nutrient digestibility in weaning pigs. <i>Asian-Australasian Journal of Animal Sciences</i> , 2019 , 32, 556-563	2.4	7
30	Graphene Foam Cantilever Produced via Simultaneous Foaming and Doping Effect of an Organic Coagulant. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 10763-10771	9.5	6
29	Styrenic block copolymer/sulfonated graphene oxide composite membranes for highly bendable ionic polymer actuators with large ion concentration gradient. <i>Composites Science and Technology</i> , 2018 , 163, 63-70	8.6	6
28	Carbon: 25th Anniversary Article: Chemically Modified/Doped Carbon Nanotubes & Graphene for Optimized Nanostructures & Nanodevices (Adv. Mater. 1/2014). <i>Advanced Materials</i> , 2014 , 26, 2-2	24	6
27	Thermal shrinkage of chemically recycled and virgin poly(ethylene terephthalate) blends. <i>Macromolecular Research</i> , 2014 , 22, 782-787	1.9	6
26	Direct hybridization of tin oxide/graphene nanocomposites for highly efficient lithium-ion battery anodes. <i>Journal of Electroceramics</i> , 2014 , 33, 195-201	1.5	6
25	Novel Hybridization Approaches for Graphene-Based Nanocomposites. <i>Science of Advanced Materials</i> , 2015 , 7, 1962-1978	2.3	5
24	Effects of wheat supplementation levels on growth performance, blood profiles, nutrient digestibility, and pork quality in growing-finishing pigs. <i>Asian-Australasian Journal of Animal Sciences</i> , 2017 , 30, 1150-1159	2.4	4
23	Capillarity induced large area patterning of peptide nanowires. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 6954-7	1.3	4
22	Holey graphene oxide membranes containing both nanopores and nanochannels for highly efficient harvesting of water evaporation energy. <i>Chemical Engineering Journal</i> , 2022 , 430, 132759	14.7	4
21	Photo-Triggered Shape Reconfiguration in Stretchable Reduced Graphene Oxide-Patterned Azobenzene-Functionalized Liquid Crystalline Polymer Networks. <i>Advanced Functional Materials</i> , 2021 , 31, 2102106	15.6	4
20	Rapid gas-induced detachable rGO/MnO debonding layer for flexible electronic applications. <i>Carbon</i> , 2019 , 146, 756-762	10.4	3
19	Direct Assembly of Graphene Oxide on Flexible Substrates for Highly Transparent Electrodes via the Langmuir-Blodgett Technique. <i>Journal of Nanoscience and Nanotechnology</i> , 2015 , 15, 1191-4	1.3	3
18	Synthesis and characterization of poly(butylene succinate)-reduced graphene oxide composite through in-situ melt polymerization. <i>Journal of Polymer Research</i> , 2017 , 24, 1	2.7	3
17	Vertical Arrays of Photoluminescent Alq3 Nanotubes on Flexible Substrates by Vapor Deposition. <i>Molecular Crystals and Liquid Crystals</i> , 2014 , 602, 193-199	0.5	3
16	Ultrafast flashlight sintered mesoporous NiO nanosheets for stable asymmetric supercapacitors. <i>Chemical Engineering Journal</i> , 2022 , 135041	14.7	3
15	Effects of dietary vitamin levels on physiological responses, blood profiles, and reproductive performance in gestating sows. <i>Journal of Animal Science and Technology</i> , 2019 , 61, 294-303	1.6	3

14	Rheological Investigation of Relaxation Behavior of Polycarbonate/Acrylonitrile-Butadiene-Styrene Blends. <i>Polymers</i> , 2020 , 12,	4.5	3
13	Peeling mechanism of interlocked interface between etched acrylonitrile-butadiene-styrene and electroplated metal layer. <i>Surfaces and Interfaces</i> , 2021 , 26, 101337	4.1	3
12	LbL Assembled sPPO Composite Membrane Containing GO for DMFC Applications. <i>Molecular Crystals and Liquid Crystals</i> , 2014 , 598, 16-22	0.5	2
11	Aqueous-processable surface modified graphite with manganese oxide for lithium-ion battery anode. <i>Applied Surface Science</i> , 2020 , 526, 146720	6.7	2
10	Elaborating Nitrogen and Oxygen Dopants Configurations within Graphene Electrocatalysts for Two-Electron Oxygen Reduction	320-328	2
9	Highly electroconductive lightweight graphene fibers with high current-carrying capacity fabricated via sequential continuous electrothermal annealing. <i>Chemical Engineering Journal</i> , 2021 , 414, 128803	14.7	2
8	Microstructure-Controlled Polyacrylonitrile/Graphene Fibers over 1 Gigapascal Strength. <i>ACS Nano</i> , 2021 ,	16.7	2
7	Comparison of the strength of various disposable videolaryngoscope blades. <i>Canadian Journal of Anaesthesia</i> , 2021 , 68, 1651-1658	3	2
6	Ultrafast photo-annealed carbon-coated SiO ₂ sphere electrodes for NO ₂ gas sensing. <i>Carbon</i> , 2020 , 162, 562-569	10.4	1
5	Dynamic Self-Repair Architectures for Defective Through-silicon Vias. <i>ETRI Journal</i> , 2014 , 36, 301-308	1.4	1
4	A novel load balancing method for multi-core with non-uniform memory architecture 2010 ,		1
3	Effect of metal/metal oxide catalysts on graphene fiber for improved NO ₂ sensing. <i>Sensors and Actuators B: Chemical</i> , 2021 , 344, 130231	8.5	1
2	Delamination of Graphene/ZnO interlayer driven by photocatalytic effect for flexible a-IGZO TFT applications. <i>Applied Surface Science</i> , 2022 , 571, 151358	6.7	1
1	Effects of blend composition on the morphologies and physical properties of polycarbonate/acrylonitrile-butadiene-styrene blends. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 50404	2.9	0