

Tae Hee Han

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/454882/tae-hee-han-publications-by-year.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Ultrafast flashlight sintered mesoporous NiO nanosheets for stable asymmetric supercapacitors. <i>Chemical Engineering Journal</i> , 2022 , 135041	14.7	3
102	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
101	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
100	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
99	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
98	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
97	Photonic split-second induced mesoporous TiO ₂ -Graphene architectures for efficient sodium-ion batteries. <i>Carbon</i> , 2021 , 178, 332-344	10.4	9
96	Sub-nanometer confinement enables facile condensation of gas electrolyte for low-temperature batteries. <i>Nature Communications</i> , 2021 , 12, 3395	17.4	16
95	Highly Electroconductive and Mechanically Strong TiCT MXene Fibers Using a Deformable MXene Gel. <i>ACS Nano</i> , 2021 , 15, 3320-3329	16.7	43
94	Carbon nanotube-reduced graphene oxide fiber with high torsional strength from rheological hierarchy control. <i>Nature Communications</i> , 2021 , 12, 396	17.4	10
93	Microstructure-Controlled Polyacrylonitrile/Graphene Fibers over 1 Gigapascal Strength. <i>ACS Nano</i> , 2021 ,	16.7	2
92	Comparison of the strength of various disposable videolaryngoscope blades. <i>Canadian Journal of Anaesthesia</i> , 2021 , 68, 1651-1658	3	2
91	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
90	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
89	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
88	Large-scale wet-spinning of highly electroconductive MXene fibers. <i>Nature Communications</i> , 2020 , 11, 2825	17.4	86
87	Ultrafast photo-annealed carbon-coated SiO ₂ sphere electrodes for NO ₂ gas sensing. <i>Carbon</i> , 2020 , 162, 562-569	10.4	1

86	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
85	Room-Temperature, Highly Durable TiCT MXene/Graphene Hybrid Fibers for NH Gas Sensing. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 10434-10442	9.5	113
84	Aqueous-processable surface modified graphite with manganese oxide for lithium-ion battery anode. <i>Applied Surface Science</i> , 2020 , 526, 146720	6.7	2
83	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
82	Surface-2D/Bulk-3D Heterophased Perovskite Nanograins for Long-Term-Stable Light-Emitting Diodes. <i>Advanced Materials</i> , 2020 , 32, e1905674	24	36
81	Rheological Investigation of Relaxation Behavior of Polycarbonate/Acrylonitrile-Butadiene-Styrene Blends. <i>Polymers</i> , 2020 , 12,	4.5	3
80	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
79	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
78	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
77	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
76	Rapid gas-induced detachable rGO/MnO debonding layer for flexible electronic applications. <i>Carbon</i> , 2019 , 146, 756-762	10.4	3
75	Stiffening of graphene oxide films by soft porous sheets. <i>Nature Communications</i> , 2019 , 10, 3677	17.4	23
74	Graphene quantum dots/graphene fiber nanochannels for osmotic power generation. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 23727-23732	13	17
73	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
72	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
71	Tunable Electronic Properties of Nitrogen and Sulfur Doped Graphene: Density Functional Theory Approach. <i>Nanomaterials</i> , 2019 , 9,	5.4	24
70	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
69	Porous Graphene-Carbon Nanotube Scaffolds for Fiber Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 9011-9022	9.5	59

68	Joule heating-induced sp ² -restoration in graphene fibers. <i>Carbon</i> , 2019 , 142, 230-237	10.4	27
67	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
66	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
65	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
64	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
63	Dynamic assembly of liquid crystalline graphene oxide gel fibers for ion transport. <i>Science Advances</i> , 2018 , 4, eaau2104	14.3	63
62	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
61	Strengthening and Stiffening Graphene Oxide Fiber with Trivalent Metal Ion Binders. <i>Particle and Particle Systems Characterization</i> , 2017 , 34, 1600401	3.1	20
60	A graphene-phthalocyanine hybrid as a next photoactive layer. <i>Carbon</i> , 2017 , 119, 476-482	10.4	12
59	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
58	Three-dimensionally stacked Al ₂ O ₃ /graphene oxide for gas barrier applications. <i>Carbon</i> , 2017 , 125, 464-471	10.4	16
57	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
56	Enhanced thermal conductivity of epoxy/Cu-plated carbon fiber fabric composites. <i>Macromolecular Research</i> , 2017 , 25, 559-564	1.9	12
55	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
54	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
53	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
52	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
51	Metal-assisted mechanochemical reduction of graphene oxide. <i>Carbon</i> , 2016 , 110, 79-86	10.4	21

50	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
49	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
48	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
47	Large Scale Synthesis and Light Emitting Fibers of Tailor-Made Graphene Quantum Dots. <i>Scientific Reports</i> , 2015 , 5, 14163	4.9	41
46	Novel Hybridization Approaches for Graphene-Based Nanocomposites. <i>Science of Advanced Materials</i> , 2015 , 7, 1962-1978	2.3	5
45	25th anniversary article: Chemically modified/doped carbon nanotubes & graphene for optimized nanostructures & nanodevices. <i>Advanced Materials</i> , 2014 , 26, 40-66	24	432
44	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
43	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
42	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
41	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
40	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
39	Thermal shrinkage of chemically recycled and virgin poly(ethylene terephthalate) blends. <i>Macromolecular Research</i> , 2014 , 22, 782-787	1.9	6
38	Nitrogen-doped carbon nanotubes and graphene composite structures for energy and catalytic applications. <i>Chemical Communications</i> , 2014 , 50, 6818-30	5.8	361
37	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
36	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
35	Dynamic Self-Repair Architectures for Defective Through-silicon Vias. <i>ETRI Journal</i> , 2014 , 36, 301-308	1.4	1
34	LbL Assembled sPPO Composite Membrane Containing GO for DMFC Applications. <i>Molecular Crystals and Liquid Crystals</i> , 2014 , 598, 16-22	0.5	2
33	Sulfonated graphene oxide/naftion composite membrane for vanadium redox flow battery. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 9073-7	1.3	13

32	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
31	Facile and Ecofriendly Fluorination of Graphene Oxide. <i>Bulletin of the Korean Chemical Society</i> , 2014 , 35, 2139-2142	1.2	8
30	Copper shell networks in polymer composites for efficient thermal conduction. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 11618-22	9.5	76
29	Direct growth of polyaniline chains from N-doped sites of carbon nanotubes. <i>Small</i> , 2013 , 9, 3829-33	11	42
28	Graphene Oxide as a Novel Nanoplatfrom for Direct Hybridization of Graphene-SnO2. <i>Bulletin of the Korean Chemical Society</i> , 2013 , 34, 3269-3273	1.2	10
27	Biomaterialized N-doped CNT/TiO2 core/shell nanowires for visible light photocatalysis. <i>ACS Nano</i> , 2012 , 6, 935-43	16.7	167
26	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
25	Steam etched porous graphene oxide network for chemical sensing. <i>Journal of the American Chemical Society</i> , 2011 , 133, 15264-7	16.4	267
24	Biomimetic mineralization of vertical N-doped carbon nanotubes. <i>Chemical Communications</i> , 2011 , 47, 535-7	5.8	28
23	Hydration-responsive folding and unfolding in graphene oxide liquid crystal phases. <i>ACS Nano</i> , 2011 , 5, 8019-25	16.7	174
22	Vertical ZnO nanowires/graphene hybrids for transparent and flexible field emission. <i>Journal of Materials Chemistry</i> , 2011 , 21, 3432-3437		216
21	Graphene Oxide Liquid Crystals. <i>Angewandte Chemie</i> , 2011 , 123, 3099-3103	3.6	39
20	Graphene oxide liquid crystals. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 3043-7	16.4	453
19	Graphene Electrodes for Artificial Muscles. <i>Molecular Crystals and Liquid Crystals</i> , 2011 , 539, 260/[600]-265/[605]		
18	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
17	Peptide-templating dye-sensitized solar cells. <i>Nanotechnology</i> , 2010 , 21, 185601	3.4	32
16	Noncovalent functionalization of graphene with end-functional polymers. <i>Journal of Materials Chemistry</i> , 2010 , 20, 1907		491
15	A plasmonic biosensor array by block copolymer lithography. <i>Journal of Materials Chemistry</i> , 2010 , 20, 7241		82

14	A novel load balancing method for multi-core with non-uniform memory architecture 2010 ,		1
13	Capillarity induced large area patterning of peptide nanowires. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 6954-7	1.3	4
12	Role of water in directing diphenylalanine assembly into nanotubes and nanowires. <i>Advanced Materials</i> , 2010 , 22, 583-7	24	156
11	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
10	Peptide/graphene hybrid assembly into core/shell nanowires. <i>Advanced Materials</i> , 2010 , 22, 2060-4	24	230
9	Hierarchical assembly of diphenylalanine into dendritic nanoarchitectures. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010 , 79, 440-5	6	28
8	Bionanosphere lithography via hierarchical peptide self-assembly of aromatic triphenylalanine. <i>Small</i> , 2010 , 6, 945-51	11	57
7	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
6	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
5	Highly entangled hollow TiO ₂ nanoribbons templating diphenylalanine assembly. <i>Journal of Materials Chemistry</i> , 2009 , 19, 3512		49
4	Morphology control of one-dimensional peptide nanostructures. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 5547-50	1.3	17
3	Hierarchically Ordered Polymer Films by Templated Organization of Aqueous Droplets. <i>Advanced Functional Materials</i> , 2007 , 17, 2315-2320	15.6	67
2	Liquid Crystalline Peptide Nanowires. <i>Advanced Materials</i> , 2007 , 19, 3924-3927	24	95
1	Elaborating Nitrogen and Oxygen Dopants Configurations within Graphene Electrocatalysts for Two-Electron Oxygen Reduction	320-328	2