

# Wonsik Eom

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

1,315  
citations

516215

16  
h-index

580395

25  
g-index

25  
all docs

25  
docs citations

25  
times ranked

1546  
citing authors

#	ARTICLE	IF	CITATIONS
1	Room-Temperature, Highly Durable Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> /MXene/Graphene Hybrid Fibers for NH <sub>3</sub> Gas Sensing. ACS Applied Materials & Interfaces, 2020, 12, 10434-10442.	4.0	247
2	Large-scale wet-spinning of highly electroconductive MXene fibers. Nature Communications, 2020, 11, 2825.	5.8	212
3	Highly Electroconductive and Mechanically Strong Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene Fibers Using a Deformable MXene Gel. ACS Nano, 2021, 15, 3320-3329.	7.3	177
4	2D Ti <sub>3</sub> C <sub>2</sub> MXene/WO <sub>3</sub> Hybrid Architectures for High-Rate Supercapacitors. Advanced Materials Interfaces, 2018, 5, 1801361.	1.9	95
5	Dynamic assembly of liquid crystalline graphene oxide gel fibers for ion transport. Science Advances, 2018, 4, eaau2104.	4.7	90
6	Porous Graphene-Carbon Nanotube Scaffolds for Fiber Supercapacitors. ACS Applied Materials & Interfaces, 2019, 11, 9011-9022.	4.0	79
7	Graphene-Mimicking 2D Porous Co <sub>3</sub> O <sub>4</sub> Nanofibers for Lithium Battery Applications. Advanced Functional Materials, 2016, 26, 7605-7613.	7.8	68
8	Joule heating-induced sp <sup>2</sup> -restoration in graphene fibers. Carbon, 2019, 142, 230-237.	5.4	46
9	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
10	Graphene quantum dots/graphene fiber nanochannels for osmotic power generation. Journal of Materials Chemistry A, 2019, 7, 23727-23732.	5.2	30
11	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
12	Carbon nanotube-reduced graphene oxide fiber with high torsional strength from rheological hierarchy control. Nature Communications, 2021, 12, 396.	5.8	29
13	Strengthening and Stiffening Graphene Oxide Fiber with Trivalent Metal Ion Binders. Particle and Particle Systems Characterization, 2017, 34, 1600401.	1.2	24
14	Highly Self-Healable Polymeric Blend Synthesized Using Polymeric Glue with Outstanding Mechanical Properties. Macromolecules, 2020, 53, 2279-2286.	2.2	24
15	Photonic split-second induced mesoporous TiO <sub>2</sub> -Graphene architectures for efficient sodium-ion batteries. Carbon, 2021, 178, 332-344.	5.4	19
16	High-Temperature Stable Anatase Titanium Oxide Nanofibers for Lithium-Ion Battery Anodes. ACS Applied Materials & Interfaces, 2017, 9, 25332-25338.	4.0	17
17	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
18	Kinetically controlled low-temperature solution-processed mesoporous rutile TiO <sub>2</sub> for high performance lithium-ion batteries. Journal of Industrial and Engineering Chemistry, 2019, 80, 667-676.	2.9	15

#	ARTICLE	IF	CITATIONS
19	Effect of metal/metal oxide catalysts on graphene fiber for improved NO <sub>2</sub> sensing. <i>Sensors and Actuators B: Chemical</i> , 2021, 344, 130231.	4.0	15
20	Photo-triggered Shape Reconfiguration in Stretchable Reduced Graphene Oxide-patterned Azobenzene-functionalized Liquid Crystalline Polymer Networks. <i>Advanced Functional Materials</i> , 2021, 31, 2102106.	7.8	14
21	Microstructure-Controlled Polyacrylonitrile/Graphene Fibers over 1 Gigapascal Strength. <i>ACS Nano</i> , 2021, 15, 13055-13064.	7.3	14
22	Graphene Foam Cantilever Produced via Simultaneous Foaming and Doping Effect of an Organic Coagulant. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 10763-10771.	4.0	9
23	Rapid gas-induced detachable rGO/MnO debonding layer for flexible electronic applications. <i>Carbon</i> , 2019, 146, 756-762.	5.4	3
24	Chemical Stability of Basalt Fiber in Acid Solutions. <i>Textile Science and Engineering</i> , 2013, 50, 247-251.	0.4	3
25	Aqueous-processable surface modified graphite with manganese oxide for lithium-ion battery anode. <i>Applied Surface Science</i> , 2020, 526, 146720.	3.1	3