

# Pengzhan Sun

## List of Publications by Year in descending order

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31  
papers

3,417  
citations

218381

26  
h-index

433756

31  
g-index

31  
all docs

31  
docs citations

31  
times ranked

5360  
citing authors

#	ARTICLE	IF	CITATIONS
1	Selective Ion Penetration of Graphene Oxide Membranes. ACS Nano, 2013, 7, 428-437.	7.3	635
2	Recent Developments in Graphene-Based Membranes: Structure, Mass Transport Mechanism and Potential Applications. Advanced Materials, 2016, 28, 2287-2310.	11.1	540
3	Selective Trans-Membrane Transport of Alkali and Alkaline Earth Cations through Graphene Oxide Membranes Based on Cation- $\pi$ Interactions. ACS Nano, 2014, 8, 850-859.	7.3	333
4	Limits on gas impermeability of graphene. Nature, 2020, 579, 229-232.	13.7	220
5	Capillary condensation under atomic-scale confinement. Nature, 2020, 588, 250-253.	13.7	168
6	Single-layer nanosheets with exceptionally high and anisotropic hydroxyl ion conductivity. Science Advances, 2017, 3, e1602629.	4.7	154
7	Development of efficient electrocatalysts via molecular hybridization of NiMn layered double hydroxide nanosheets and graphene. Nanoscale, 2016, 8, 10425-10432.	2.8	134
8	Graphene Nano-patches on a Carbon Nanotube Network for Highly Transparent/Conductive Thin Film Applications. Journal of Physical Chemistry C, 2010, 114, 14008-14012.	1.5	125
9	Three-dimensional porous graphene sponges assembled with the combination of surfactant and freeze-drying. Nano Research, 2014, 7, 1477-1487.	5.8	111
10	Vertical junction photodetectors based on reduced graphene oxide/silicon Schottky diodes. Nanoscale, 2014, 6, 4909-4914.	2.8	104
11	Highly efficient quasi-static water desalination using monolayer graphene oxide/titania hybrid laminates. NPG Asia Materials, 2015, 7, e162-e162.	3.8	94
12	Ultrafast liquid water transport through graphene-based nanochannels measured by isotope labelling. Chemical Communications, 2015, 51, 3251-3254.	2.2	74
13	Intrinsic high water/ion selectivity of graphene oxide lamellar membranes in concentration gradient-driven diffusion. Chemical Science, 2016, 7, 6988-6994.	3.7	66
14	Small Temperature Coefficient of Resistivity of Graphene/Graphene Oxide Hybrid Membranes. ACS Applied Materials & Interfaces, 2013, 5, 9563-9571.	4.0	62
15	Large Area Flexible Core-Shell Graphene/Porous Carbon Woven Fabric Films for Fiber Supercapacitor Electrodes. Advanced Functional Materials, 2013, 23, 4862-4869.	7.8	62
16	Carbon nanotube sponges as conductive networks for supercapacitor devices. Nano Energy, 2013, 2, 1025-1030.	8.2	61
17	Highly selective charge-guided ion transport through a hybrid membrane consisting of anionic graphene oxide and cationic hydroxide nanosheet superlattice units. NPG Asia Materials, 2016, 8, e259-e259.	3.8	56
18	Recent progress on exploring exceptionally high and anisotropic $H^{+}/OH^{-}$ ion conduction in two-dimensional materials. Chemical Science, 2018, 9, 33-43.	3.7	44

#	ARTICLE	IF	CITATIONS
19	Magnetic transitions in graphene derivatives. <i>Nano Research</i> , 2014, 7, 1507-1518.	5.8	39
20	Effective recovery of acids from iron-based electrolytes using graphene oxide membrane filters. <i>Journal of Materials Chemistry A</i> , 2014, 2, 7734-7737.	5.2	39
21	Realizing Synchronous Energy Harvesting and Ion Separation with Graphene Oxide Membranes. <i>Scientific Reports</i> , 2014, 4, 5528.	1.6	37
22	Electro- and Magneto-Modulated Ion Transport through Graphene Oxide Membranes. <i>Scientific Reports</i> , 2014, 4, 6798.	1.6	37
23	Photoinduced molecular desorption from graphene films. <i>Applied Physics Letters</i> , 2012, 101, 053107.	1.5	36
24	Suppression of the coffee-ring effect by self-assembling graphene oxide and monolayer titania. <i>Nanotechnology</i> , 2013, 24, 075601.	1.3	32
25	Structure Evolution of Graphene Oxide during Thermally Driven Phase Transformation: Is the Oxygen Content Really Preserved?. <i>PLoS ONE</i> , 2014, 9, e111908.	1.1	29
26	Exponentially selective molecular sieving through angstrom pores. <i>Nature Communications</i> , 2021, 12, 7170.	5.8	29
27	Flow-induced voltage generation in graphene network. <i>Nano Research</i> , 2015, 8, 2467-2473.	5.8	28
28	Superionic conduction along ordered hydroxyl networks in molecular-thin nanosheets. <i>Materials Horizons</i> , 2019, 6, 2087-2093.	6.4	22
29	Enhanced Transport of Nanoparticles Across a Porous Nanotube Sponge. <i>Advanced Functional Materials</i> , 2011, 21, 3439-3445.	7.8	18
30	Graphene oxide/titania hybrid films with dual-UV-responsive surfaces of tunable wettability. <i>RSC Advances</i> , 2012, 2, 10829.	1.7	15
31	Amorphous Nitrogen Doped Carbon Films: A Novel Corrosion Resistant Coating Material. <i>Advanced Engineering Materials</i> , 2014, 16, 532-538.	1.6	13