## Guangwei He

## List of Publications by Citations

Source: https://exaly.com/author-pdf/5544714/guangwei-he-publications-by-citations.pdf

Version: 2024-04-20

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.

69<br/>papers3,907<br/>citations36<br/>h-index62<br/>g-index71<br/>ext. papers4,710<br/>ext. citations14.6<br/>avg, IF5.53<br/>L-index

#	Paper	IF	Citations
69	Advances in high permeability polymer-based membrane materials for CO2 separations. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 1863-1890	35.4	475
68	Nanostructured Ion-Exchange Membranes for Fuel Cells: Recent Advances and Perspectives. <i>Advanced Materials</i> , <b>2015</b> , 27, 5280-95	24	273
67	Recent advances in the fabrication of advanced composite membranes. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 10058	13	219
66	Facilitated transport of small molecules and ions for energy-efficient membranes. <i>Chemical Society Reviews</i> , <b>2015</b> , 44, 103-18	58.5	165
65	A highly permeable graphene oxide membrane with fast and selective transport nanochannels for efficient carbon capture. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 3107-3112	35.4	155
64	Enhanced proton conductivity of Nafion hybrid membrane under different humidities by incorporating metal-organic frameworks with high phytic acid loading. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 9799-807	9.5	129
63	Single-layer graphene membranes by crack-free transfer for gas mixture separation. <i>Nature Communications</i> , <b>2018</b> , 9, 2632	17.4	111
62	Fabricating graphene oxide-based ultrathin hybrid membrane for pervaporation dehydration via layer-by-layer self-assembly driven by multiple interactions. <i>Journal of Membrane Science</i> , <b>2015</b> , 487, 162-172	9.6	106
61	Efficient CO2 capture by humidified polymer electrolyte membranes with tunable water state. Energy and Environmental Science, <b>2014</b> , 7, 1489	35.4	105
60	Two-dimensional nanochannel membranes for molecular and ionic separations. <i>Chemical Society Reviews</i> , <b>2020</b> , 49, 1071-1089	58.5	103
59	Enhanced proton conductivity of proton exchange membranes by incorporating sulfonated metal-organic frameworks. <i>Journal of Power Sources</i> , <b>2014</b> , 262, 372-379	8.9	95
58	Graphene Oxide Membranes with Heterogeneous Nanodomains for Efficient CO Separations. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 14246-14251	16.4	95
57	Incorporating Zwitterionic Graphene Oxides into Sodium Alginate Membrane for Efficient Water/Alcohol Separation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 2097-103	9.5	90
56	Constructing efficient ion nanochannels in alkaline anion exchange membranes by the in situ assembly of a poly(ionic liquid) in metal@rganic frameworks. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 2340-2348	13	86
55	Tunable Nanochannels along Graphene Oxide/Polymer CoreBhell Nanosheets to Enhance Proton Conductivity. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 7502-7511	15.6	83
54	Preparing alkaline anion exchange membrane with enhanced hydroxide conductivity via blending imidazolium-functionalized and sulfonated poly(ether ether ketone). <i>Journal of Power Sources</i> , <b>2015</b> , 288, 384-392	8.9	80
53	Enhanced proton conductivity of Nafion nanohybrid membrane incorporated with phosphonic acid functionalized graphene oxide at elevated temperature and low humidity. <i>Journal of Membrane Science</i> , <b>2016</b> , 518, 243-253	9.6	79

52	Graphitic carbon nitride nanosheets/sulfonated poly(ether ether ketone) nanocomposite membrane for direct methanol fuel cell application. <i>Journal of Membrane Science</i> , <b>2016</b> , 507, 1-11	9.6	75
51	Restricting Lattice Flexibility in Polycrystalline Metal-Organic Framework Membranes for Carbon Capture. <i>Advanced Materials</i> , <b>2019</b> , 31, e1900855	24	73
50	Bioinspired Ultrastrong Solid Electrolytes with Fast Proton Conduction along 2D Channels. <i>Advanced Materials</i> , <b>2017</b> , 29, 1605898	24	67
49	Enhanced CO2 permeability of membranes by incorporating polyzwitterion@CNT composite particles into polyimide matrix. <i>ACS Applied Materials &amp; amp; Interfaces</i> , <b>2014</b> , 6, 13051-60	9.5	66
48	High-permeance polymer-functionalized single-layer graphene membranes that surpass the postcombustion carbon capture target. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 3305-3312	35.4	65
47	Manipulating the interfacial interactions of composite membranes via a mussel-inspired approach for enhanced separation selectivity. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 19980-19988	13	64
46	Functionalized carbon nanotube via distillation precipitation polymerization and its application in nafion-based composite membranes. <i>ACS Applied Materials &amp; Distributed Mat</i>	9.5	63
45	Independent control of water retention and acidBase pairing through double-shelled microcapsules to confer membranes with enhanced proton conduction under low humidity. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 2267-2277	13	62
44	Novel sulfonated poly (ether ether ketone)/phosphonic acid-functionalized titania nanohybrid membrane by an in situ method for direct methanol fuel cells. <i>Journal of Power Sources</i> , <b>2015</b> , 273, 544-	.8 553	61
43	Fabrication of sulfonated poly(ether ether ketone)-based hybrid proton-conducting membranes containing carboxyl or amino acid-functionalized titania by in situ solgel process. <i>Journal of Power Sources</i> , <b>2015</b> , 276, 271-278	8.9	61
42	De Novo Design of Covalent Organic Framework Membranes toward Ultrafast Anion Transport. <i>Advanced Materials</i> , <b>2020</b> , 32, e2001284	24	59
41	Constructing facile proton-conduction pathway within sulfonated poly(ether ether ketone) membrane by incorporating poly(phosphonic acid)/silica nanotubes. <i>Journal of Power Sources</i> , <b>2014</b> , 259, 203-212	8.9	55
40	Facilitating Proton Transport in Nafion-Based Membranes at Low Humidity by Incorporating Multifunctional Graphene Oxide Nanosheets. <i>ACS Applied Materials &amp; District Action Section</i> , 9, 27676-276	687	48
39	Electrophoretic Nuclei Assembly for Crystallization of High-Performance Membranes on Unmodified Supports. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1707427	15.6	45
38	Zwitterionic microcapsules as water reservoirs and proton carriers within a Nafion membrane to confer high proton conductivity under low humidity. <i>ACS Applied Materials &amp; Damp; Interfaces</i> , <b>2014</b> , 6, 5362-6	9.5	44
37	Enhancing water retention and low-humidity proton conductivity of sulfonated poly(ether ether ketone) composite membrane enabled by the polymer-microcapsules with controllable hydrophilicityflydrophobicity. <i>Journal of Power Sources</i> , <b>2014</b> , 248, 951-961	8.9	43
36	A highly proton-conducting, methanol-blocking Nafion composite membrane enabled by surface-coating crosslinked sulfonated graphene oxide. <i>Chemical Communications</i> , <b>2016</b> , 52, 2173-6	5.8	42
35	Manipulation of interactions at membrane interfaces for energy and environmental applications.  Progress in Polymer Science, 2018, 80, 125-152	29.6	40

34	Enhancing Hydroxide Conductivity and Stability of Anion Exchange Membrane by Blending Quaternary Ammonium Functionalized Polymers. <i>Electrochimica Acta</i> , <b>2017</b> , 240, 486-494	6.7	38
33	Self-crosslinked blend alkaline anion exchange membranes with bi-continuous phase separated morphology to enhance ion conductivity. <i>Journal of Membrane Science</i> , <b>2020</b> , 597, 117769	9.6	36
32	Crystal Engineering of Metal Drganic Framework Thin Films for Gas Separations. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 49-69	8.3	34
31	Comparison of facilitated transport behavior and separation properties of membranes with imidazole groups and zinc ions as CO2 carriers. <i>Journal of Membrane Science</i> , <b>2016</b> , 505, 44-52	9.6	26
30	A highly conductive and robust anion conductor obtained via synergistic manipulation in intra- and inter-laminate of layered double hydroxide nanosheets. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 10277	7-1 <sup>1</sup> 028	5 <sup>22</sup>
29	Tight Covalent Organic Framework Membranes for Efficient Anion Transport via Molecular Precursor Engineering. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 17638-17646	16.4	21
28	Synergistic CO2-Sieving from Polymer with Intrinsic Microporosity Masking Nanoporous Single-Layer Graphene. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2003979	15.6	20
27	Highly conductive and robust composite anion exchange membranes by incorporating quaternized MIL-101(Cr). <i>Science Bulletin</i> , <b>2017</b> , 62, 266-276	10.6	19
26	Enhancing the hydroxide conductivity of imidazolium-functionalized polysulfone by incorporating organic microsphere with ionic brushes. <i>Journal of Membrane Science</i> , <b>2018</b> , 554, 6-15	9.6	17
25	Enhancing hydroxide conductivity of anion exchange membrane via incorporating densely imidazolium functionalized graphene oxide. <i>Solid State Ionics</i> , <b>2019</b> , 333, 83-92	3.3	17
24	Engineering Covalent Organic Framework Membranes. Accounts of Materials Research, 2021, 2, 630-643	7.5	17
23	Enhanced water retention and low-humidity proton conductivity of sulfonated poly(ether ether ketone) hybrid membrane by incorporating ellipsoidal microcapsules. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 8398-8406	6.7	15
22	Highly Hydroxide-Conductive Nanostructured Solid Electrolyte via Predesigned Ionic Nanoaggregates. <i>ACS Applied Materials &amp; Acs Applied &amp; Acs Applie</i>	9.5	14
21	Enhanced water retention and proton conductivity of proton exchange membranes by incorporating hollow polymer microspheres grafted with sulfonated polystyrene brushes. <i>RSC Advances</i> , <b>2015</b> , 5, 5343-5356	3.7	13
20	Enhanced proton conductivity under low humidity of sulfonated poly(ether ether ketone) composite membrane enabled by multifunctional phosphonic acid polymeric submicrocapsules. Journal of Power Sources, 2013, 240, 258-266	8.9	13
19	Centimeter-scale gas-sieving nanoporous single-layer graphene membrane. <i>Journal of Membrane Science</i> , <b>2021</b> , 618, 118745	9.6	12
18	Graphene Oxide Membranes with Heterogeneous Nanodomains for Efficient CO2 Separations. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 14434-14439	3.6	11
17	Ultrathin Carbon Molecular Sieve Films and Room-Temperature Oxygen Functionalization for Gas-Sieving. ACS Applied Materials & amp; Interfaces, 2019, 11, 16729-16736	9.5	10

## LIST OF PUBLICATIONS

16	Predicting Gas Separation through Graphene Nanopore Ensembles with Realistic Pore Size Distributions. <i>ACS Nano</i> , <b>2021</b> , 15, 1727-1740	16.7	10
15	Accelerating CO2 capture of highly permeable polymer through incorporating highly selective hollow zeolite imidazolate framework. <i>AICHE Journal</i> , <b>2020</b> , 66, e16800	3.6	9
14	Direct Chemical Vapor Deposition Synthesis of Porous Single-Layer Graphene Membranes with High Gas Permeances and Selectivities. <i>Advanced Materials</i> , <b>2021</b> , 33, e2104308	24	8
13	Polybenzimidazole copolymer derived lacey carbon film for graphene transfer and contamination removal strategies for imaging graphene nanopores. <i>Carbon</i> , <b>2021</b> , 173, 980-988	10.4	7
12	Molecular engineering of organic-inorganic interface towards high-performance polyelectrolyte membrane via amphiphilic block copolymer. <i>Journal of Membrane Science</i> , <b>2018</b> , 563, 1-9	9.6	6
11	Tight Covalent Organic Framework Membranes for Efficient Anion Transport via Molecular Precursor Engineering. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 17779-17787	3.6	5
10	Multipulsed Millisecond Ozone Gasification for Predictable Tuning of Nucleation and Nucleation-Decoupled Nanopore Expansion in Graphene for Carbon Capture. <i>ACS Nano</i> , <b>2021</b> ,	16.7	5
9	MOF-COF "Alloy" Membrane for Efficient Propylene/Propane Separation <i>Advanced Materials</i> , <b>2022</b> , e2201423	24	5
8	One-Pot Synthesis of Chloromethylated Mesoporous Silica Nanoparticles as Multifunctional Fillers in Hybrid Anion Exchange Membranes. <i>Chinese Journal of Chemistry</i> , <b>2017</b> , 35, 673-680	4.9	4
7	Irreversible synthesis of an ultrastrong two-dimensional polymeric material <i>Nature</i> , <b>2022</b> , 602, 91-95	50.4	3
6	Gas Separations using Nanoporous Atomically Thin Membranes: Recent Theoretical, Simulation, and Experimental Advances <i>Advanced Materials</i> , <b>2022</b> , e2201472	24	3
5	Electrophoretic Crystallization of Ultrathin High-performance Metal-organic Framework Membranes. <i>Journal of Visualized Experiments</i> , <b>2018</b> ,	1.6	2
4	Confined facilitated transport within covalent organic frameworks for propylene/propane membrane separation. <i>Chemical Engineering Journal</i> , <b>2022</b> , 439, 135657	14.7	1
3	Advanced organic molecular sieve membranes for carbon capture: Current status, challenges and prospects <b>2022</b> , 2, 100028		O
2	Microstructure Manipulation of Covalent Organic Frameworks (COFs)-based Membrane for Efficient Separations. <i>Chemical Research in Chinese Universities</i> ,1	2.2	О
1	Weakly pressure-dependent molecular sieving of propylene/propane mixtures through mixed matrix membrane with ZIF-8 direct-through channels. <i>Journal of Membrane Science</i> , <b>2022</b> , 648, 120366	9.6	Ο