

# Guanhua Liu

## List of Publications by Year in descending order

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36  
papers

1,731  
citations

236925

25  
h-index

345221

36  
g-index

36  
all docs

36  
docs citations

36  
times ranked

1627  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pervaporation performance comparison of hybrid membranes filled with two-dimensional ZIF-L nanosheets and zero-dimensional ZIF-8 nanoparticles. <i>Journal of Membrane Science</i> , 2017, 523, 185-196.	8.2	176
2	Hybrid membranes for pervaporation separations. <i>Journal of Membrane Science</i> , 2017, 541, 329-346.	8.2	174
3	Highly water-permeable and stable hybrid membrane with asymmetric covalent organic framework distribution. <i>Journal of Membrane Science</i> , 2016, 520, 583-595.	8.2	107
4	Functionally graded membranes from nanoporous covalent organic frameworks for highly selective water permeation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 583-591.	10.3	103
5	Embedding dopamine nanoaggregates into a poly(dimethylsiloxane) membrane to confer controlled interactions and free volume for enhanced separation performance. <i>Journal of Materials Chemistry A</i> , 2013, 1, 3713.	10.3	90
6	Preparation of ultrathin, robust membranes through reactive layer-by-layer (LbL) assembly for pervaporation dehydration. <i>Journal of Membrane Science</i> , 2017, 537, 229-238.	8.2	87
7	Enhanced dispersibility of metal-organic frameworks (MOFs) in the organic phase via surface modification for TFN nanofiltration membrane preparation. <i>RSC Advances</i> , 2020, 10, 4045-4057.	3.6	75
8	Highly water-selective membranes based on hollow covalent organic frameworks with fast transport pathways. <i>Journal of Membrane Science</i> , 2018, 565, 331-341.	8.2	73
9	Preparation and Application of Bismuth/MXene Nano-Composite as Electrochemical Sensor for Heavy Metal Ions Detection. <i>Nanomaterials</i> , 2020, 10, 866.	4.1	66
10	Water-selective permeation in hybrid membrane incorporating multi-functional hollow ZIF-8 nanospheres. <i>Journal of Membrane Science</i> , 2018, 555, 146-156.	8.2	57
11	Manipulation of interactions at membrane interfaces for energy and environmental applications. <i>Progress in Polymer Science</i> , 2018, 80, 125-152.	24.7	56
12	Graphene oxide quantum dots incorporated nanocomposite membranes with high water flux for pervaporative dehydration. <i>Journal of Membrane Science</i> , 2018, 563, 903-913.	8.2	55
13	High-efficiency water-selective membranes from the solution-diffusion synergy of calcium alginate layer and covalent organic framework (COF) layer. <i>Journal of Membrane Science</i> , 2019, 572, 557-566.	8.2	48
14	Enhanced pervaporation performance of poly (dimethyl siloxane) membrane by incorporating titania microspheres with high silver ion loading. <i>Journal of Membrane Science</i> , 2011, 378, 382-392.	8.2	44
15	Metal Nanoparticles@Covalent Organic Framework@Enzymes: A Universal Platform for Fabricating a Metal-Enzyme Integrated Nanocatalyst. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 2881-2892.	8.0	44
16	Enhancing Permeability of Thin Film Nanocomposite Membranes via Covalent Linking of Polyamide with the Incorporated Metal-Organic Frameworks. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 8772-8783.	3.7	43
17	Enhancing the permeation selectivity of sodium alginate membrane by incorporating attapulgite nanorods for ethanol dehydration. <i>RSC Advances</i> , 2016, 6, 14381-14392.	3.6	38
18	Enhanced desulfurization performance of PDMS membranes by incorporating silver decorated dopamine nanoparticles. <i>Journal of Materials Chemistry A</i> , 2014, 2, 12907.	10.3	35

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19	Compartmentalization of Biocatalysts by Immobilizing Bienzyme in Hollow ZIF-8 for Colorimetric Detection of Glucose and Phenol. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 42-51.	3.7	35
20	Bioinspired Modification of Layer-Stacked Molybdenum Disulfide (MoS <sub>2</sub> ) Membranes for Enhanced Nanofiltration Performance. <i>ACS Omega</i> , 2019, 4, 4012-4022.	3.5	34
21	Hierarchical pore architectures from 2D covalent organic nanosheets for efficient water/alcohol separation. <i>Journal of Membrane Science</i> , 2018, 561, 79-88.	8.2	33
22	Elevating the selectivity of layer-by-layer membranes by in situ bioinspired mineralization. <i>Journal of Membrane Science</i> , 2016, 520, 364-373.	8.2	32
23	Simple Purification and Immobilization of His-Tagged Organophosphohydrolase from Cell Culture Supernatant by Metal Organic Frameworks for Degradation of Organophosphorus Pesticides. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 13518-13525.	5.2	32
24	Rapid preparation of Tannic acid (TA) based zwitterionic nanofiltration membrane via a multiple layer-by-layer (mLBL) assembly strategy for enhanced antifouling performance. <i>Separation and Purification Technology</i> , 2020, 253, 117519.	7.9	28
25	Creation of hierarchical structures within membranes by incorporating mesoporous microcapsules for enhanced separation performance and stability. <i>Journal of Materials Chemistry A</i> , 2014, 2, 5267.	10.3	26
26	Layer-by-layer self-assembled nanocomposite membranes via bio-inspired mineralization for pervaporation dehydration. <i>Journal of Membrane Science</i> , 2019, 570-571, 44-52.	8.2	22
27	High-Throughput Zwitterion-Modified MoS <sub>2</sub> Membranes: Preparation and Application in Dye Desalination. <i>Langmuir</i> , 2021, 37, 417-427.	3.5	19
28	Hierarchically porous metal organic framework immobilized formate dehydrogenase for enzyme electrocatalytic CO <sub>2</sub> reduction. <i>Chemical Engineering Journal</i> , 2022, 450, 138164.	12.7	17
29	Bioinspired modification of molybdenum disulfide nanosheets to prepare a loose nanofiltration membrane for wastewater treatment. <i>Journal of Water Process Engineering</i> , 2021, 40, 101759.	5.6	16
30	Accelerating Electroenzymatic CO <sub>2</sub> Reduction by Immobilizing Formate Dehydrogenase on Polyethylenimine-Modified Mesoporous Silica. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 633-644.	6.7	15
31	Facile synthesis of covalent organic framework derived Fe-COFs composites as a peroxidase-mimicking artificial enzyme. <i>Nanoscale Advances</i> , 2020, 2, 1036-1039.	4.6	12
32	Tuning the Microstructure of a Zwitterion-Functionalized Polyethylenimine Loose NF Membrane for Dye Desalination. <i>Industrial &amp; Engineering Chemistry Research</i> , 2022, 61, 2245-2256.	3.7	12
33	Enhanced pervaporative performance of hybrid membrane by incorporating amphiphilic carbonaceous material. <i>Journal of Membrane Science</i> , 2016, 520, 951-963.	8.2	11
34	<sc>Polydopamineâ€œEncapsulated</sc> Dendritic Organosilica Nanoparticles as Amphiphilic Platforms for Highly Efficient Heterogeneous Catalysis in Water. <i>Chinese Journal of Chemistry</i> , 2021, 39, 1975-1982.	4.9	8
35	Cascade degradation of organophosphorus pollutant by photoenzymatic integrated nanocatalyst. <i>Journal of Chemical Technology and Biotechnology</i> , 2020, 95, 2463-2472.	3.2	4
36	Enhanced water-selective performance of dual-layer hybrid membranes by incorporating carbon nanotubes. <i>Chemical Engineering Science: X</i> , 2021, 11, 100102.	1.5	4