

# Derrick Ng

## List of Publications by Year in Descending Order

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

40  
papers

997  
citations

19  
h-index

31  
g-index

42  
ext. papers

1,283  
ext. citations

7.2  
avg. IF

4.63  
L-index

#	Paper	IF	Citations
40	Low temperature SCR of NO <sub>x</sub> over Mn/Fe mixed oxides catalyst: comparison of synthesis methods. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2021</b> , 96, 2681-2695	3.5	3
39	Construction of ultrathin PTMSP/Porous nanoadditives membranes for highly efficient organic solvent nanofiltration (OSN). <i>Journal of Membrane Science</i> , <b>2021</b> , 620, 118911	9.6	6
38	Synthesis and characterisation of monolithic PTFE-modified MnOX/FeOX catalysts for selective catalytic reduction (SCR) of NO <sub>x</sub> at low temperature. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2021</b> , 96, 1016-1029	3.5	3
37	Fouling behavior of calcium phosphate in direct contact membrane distillation. <i>Environmental Technology and Innovation</i> , <b>2021</b> , 21, 101203	7	4
36	Continuous Flow Hydrogenation of Flavorings and Fragrances Using 3D-Printed Catalytic Static Mixers. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2021</b> , 60, 1989-2002	3.9	8
35	Enhancing polyimide-based mixed matrix membranes performance for CO <sub>2</sub> separation containing PAF-1 and p-DCX. <i>Separation and Purification Technology</i> , <b>2021</b> , 268, 118677	8.3	0
34	Sewage concentration via a graphene oxide modified thin-film nanocomposite forward osmosis membrane: Enhanced performance and mitigated fouling. <i>Chemical Engineering Journal</i> , <b>2021</b> , 420, 127718	14.7	8
33	Dual Functions of a Au@AgNP-Incorporated Nanocomposite Desalination Membrane with an Enhanced Antifouling Property and Fouling Detection Via Surface-Enhanced Raman Spectroscopy. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 46202-46212	9.5	1
32	2D laminar maleic acid-crosslinked MXene membrane with tunable nanochannels for efficient and stable pervaporation desalination. <i>Journal of Membrane Science</i> , <b>2020</b> , 600, 117871	9.6	53
31	Understanding the transport enhancement of poly (vinyl alcohol) based hybrid membranes with dispersed nanochannels for pervaporation application. <i>Journal of Membrane Science</i> , <b>2020</b> , 603, 118005	9.6	14
30	Omniphobic surface modification of electrospun nanofiber membrane via vapor deposition for enhanced anti-wetting property in membrane distillation. <i>Journal of Membrane Science</i> , <b>2020</b> , 606, 118075	9.6	25
29	Theoretical guidance for fabricating higher flux hydrophobic/hydrophilic dual-layer membranes for direct contact membrane distillation. <i>Journal of Membrane Science</i> , <b>2020</b> , 596, 117608	9.6	6
28	A Pilot-Scale Demonstration of Mobile Direct Air Capture Using Metal-Organic Frameworks. <i>Advanced Sustainable Systems</i> , <b>2020</b> , 4, 2000101	5.9	8
27	Continuous flow semi-hydrogenation of alkynes using 3D printed catalytic static mixers. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2020</b> , 154, 108018	3.7	10
26	Synthesis and Characterization of Mn <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> Nanocomposite for SCR of NO <sub>x</sub> at Low Temperatures: Role of Mn, Ce and V Oxide. <i>Topics in Catalysis</i> , <b>2020</b> , 63, 913-923	2.3	3
25	Scalable continuous flow hydrogenations using Pd/Al <sub>2</sub> O <sub>3</sub> -coated rectangular cross-section 3D-printed static mixers. <i>Catalysis Today</i> , <b>2020</b> , 383, 55-55	5.3	12
24	Ultrathin poly (vinyl alcohol)/MXene nanofilm composite membrane with facile intrusion-free construction for pervaporative separations. <i>Journal of Membrane Science</i> , <b>2020</b> , 614, 118490	9.6	11

23	Functionalized Carbon Nanotube-Mediated Transport in Membranes Containing Fixed-Site Carriers for Fast Pervaporation Desalination. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 50918-50928	9.5	5
22	Aluminum fumarate MOF/PVDF hollow fiber membrane for enhancement of water flux and thermal efficiency in direct contact membrane distillation. <i>Journal of Membrane Science</i> , <b>2019</b> , 588, 117204	9.6	34
21	Enhanced desalination performance of poly (vinyl alcohol)/carbon nanotube composite pervaporation membranes via interfacial engineering. <i>Journal of Membrane Science</i> , <b>2019</b> , 579, 40-51	9.6	51
20	Functionalizing graphene oxide framework membranes with sulfonic acid groups for superior aqueous mixture separation. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 19682-19690	13	35
19	Depletion of VOC in wastewater by vacuum membrane distillation using a dual-layer membrane: mechanism of mass transfer and selectivity. <i>Environmental Science: Water Research and Technology</i> , <b>2019</b> , 5, 119-130	4.2	10
18	Thin-Film Composite Membrane with Interlayer Decorated Metal-Organic Framework UiO-66 toward Enhanced Forward Osmosis Performance. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 195-206	3.9	49
17	Improved filtration performance and antifouling properties of polyethersulfone ultrafiltration membranes by blending with carboxylic acid functionalized polysulfone.. <i>RSC Advances</i> , <b>2018</b> , 8, 7774-7784	3.7	25
16	Antiwettability and Performance Stability of a Composite Hydrophobic/Hydrophilic Dual-Layer Membrane in Wastewater Treatment by Membrane Distillation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 9313-9322	3.9	23
15	Dopamine Incorporated Forward Osmosis Membranes with High Structural Stability and Chlorine Resistance. <i>Processes</i> , <b>2018</b> , 6, 151	2.9	9
14	Comparison of colloidal silica involved fouling behavior in three membrane distillation configurations using PTFE membrane. <i>Water Research</i> , <b>2018</b> , 130, 343-352	12.5	28
13	Activated carbon enhanced hydrophobic/hydrophilic dual-layer nanofiber composite membranes for high-performance direct contact membrane distillation. <i>Desalination</i> , <b>2018</b> , 446, 59-69	10.3	44
12	Study of Hybrid PVA/MA/TEOS Pervaporation Membrane and Evaluation of Energy Requirement for Desalination by Pervaporation. <i>International Journal of Environmental Research and Public Health</i> , <b>2018</b> , 15,	4.6	17
11	Dopamine incorporating forward osmosis membranes with enhanced selectivity and antifouling properties.. <i>RSC Advances</i> , <b>2018</b> , 8, 22469-22481	3.7	25
10	Poly(ether sulfone) supported hybrid poly(vinyl alcohol)-maleic acid-silicone dioxide membranes for the pervaporation separation of ethanol-water mixtures. <i>Journal of Applied Polymer Science</i> , <b>2017</b> , 134,	2.9	4
9	Hyper-Cross-Linked Additives that Impede Aging and Enhance Permeability in Thin Polyacetylene Films for Organic Solvent Nanofiltration. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 14401-14408	9.5	59
8	Organic Microporous Nanofillers with Unique Alcohol Affinity for Superior Ethanol Recovery toward Sustainable Biofuels. <i>ChemSusChem</i> , <b>2017</b> , 10, 1887-1891	8.3	24
7	Building Additional Passageways in Polyamide Membranes with Hydrostable Metal Organic Frameworks To Recycle and Remove Organic Solutes from Various Solvents. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 38877-38886	9.5	65
6	Effect of heat treatment on pervaporation separation of aqueous salt solution using hybrid PVA/MA/TEOS membrane. <i>Separation and Purification Technology</i> , <b>2014</b> , 127, 10-17	8.3	44

5	Effect of ammonium salts on the properties of poly(piperazineamide) thin film composite nanofiltration membrane. <i>Journal of Membrane Science</i> , <b>2014</b> , 465, 34-40	9.6	47
4	Ammonia removal from aqueous solution by membrane distillation. <i>Water and Environment Journal</i> , <b>2012</b> , 27, n/a-n/a	1.7	29
3	Sol-gel derived poly(vinyl alcohol)/maleic acid/silica hybrid membrane for desalination by pervaporation. <i>Journal of Membrane Science</i> , <b>2011</b> , 383, 96-103	9.6	105
2	Separation of aqueous salt solution by pervaporation through hybrid organic/inorganic membrane: Effect of operating conditions. <i>Desalination</i> , <b>2011</b> , 273, 220-225	10.3	82
1	An improved technique for concentration measurement of galactomannan solutions by differential refractive index. <i>Carbohydrate Polymers</i> , <b>2009</b> , 77, 150-153	10.3	6