

Yang Han

List of Publications by Year in descending order

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34
papers

1,274
citations

430442

18
h-index

395343

33
g-index

35
all docs

35
docs citations

35
times ranked

873
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Polymeric membranes for CO ₂ separation and capture. <i>Journal of Membrane Science</i> , 2021, 628, 119244. | 4.1 | 235 |
| 2 | Recent advances in polymeric membranes for CO ₂ capture. <i>Chinese Journal of Chemical Engineering</i> , 2018, 26, 2238-2254. | 1.7 | 123 |
| 3 | Treatment of acid mine drainage by sulfate reducing bacteria with iron in bench scale runs. <i>Bioresource Technology</i> , 2013, 128, 818-822. | 4.8 | 101 |
| 4 | Nanotube-reinforced facilitated transport membrane for CO ₂ /N ₂ separation with vacuum operation. <i>Journal of Membrane Science</i> , 2018, 567, 261-271. | 4.1 | 71 |
| 5 | Simultaneous effects of temperature and vacuum and feed pressures on facilitated transport membrane for CO ₂ /N ₂ separation. <i>Journal of Membrane Science</i> , 2019, 573, 476-484. | 4.1 | 68 |
| 6 | Scale-up of amine-containing thin-film composite membranes for CO ₂ capture from flue gas. <i>Journal of Membrane Science</i> , 2018, 555, 379-387. | 4.1 | 65 |
| 7 | Field trial of spiral-wound facilitated transport membrane module for CO ₂ capture from flue gas. <i>Journal of Membrane Science</i> , 2019, 575, 242-251. | 4.1 | 60 |
| 8 | Fabrication and field testing of spiral-wound membrane modules for CO ₂ capture from flue gas. <i>Journal of Membrane Science</i> , 2018, 556, 126-137. | 4.1 | 53 |
| 9 | Recent advances in polymeric facilitated transport membranes for carbon dioxide separation and hydrogen purification. <i>Journal of Polymer Science</i> , 2020, 58, 2435-2449. | 2.0 | 46 |
| 10 | Recent Progress in the Engineering of Polymeric Membranes for CO ₂ Capture from Flue Gas. <i>Membranes</i> , 2020, 10, 365. | 1.4 | 42 |
| 11 | Bioremediation of copper-containing wastewater by sulfate reducing bacteria coupled with iron. <i>Journal of Environmental Management</i> , 2013, 129, 350-356. | 3.8 | 37 |
| 12 | Fabrication and scale-up of multi-leaf spiral-wound membrane modules for CO ₂ capture from flue gas. <i>Journal of Membrane Science</i> , 2020, 595, 117504. | 4.1 | 32 |
| 13 | Design of Amine-Containing CO ₂ -Selective Membrane Process for Carbon Capture from Flue Gas. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 5340-5350. | 1.8 | 32 |
| 14 | Hydrophilic and morphological modification of nanoporous polyethersulfone substrates for composite membranes in CO ₂ separation. <i>Journal of Membrane Science</i> , 2018, 565, 439-449. | 4.1 | 29 |
| 15 | CO ₂ -selective membranes containing amino acid salts for CO ₂ /N ₂ separation. <i>Journal of Membrane Science</i> , 2021, 638, 119696. | 4.1 | 28 |
| 16 | Scale-up of zeolite-Y/polyethersulfone substrate for composite membrane fabrication in CO ₂ separation. <i>Journal of Membrane Science</i> , 2018, 562, 56-66. | 4.1 | 26 |
| 17 | Treatment of copper wastewater by sulfate reducing bacteria in the presence of zero valent iron. <i>International Journal of Mineral Processing</i> , 2012, 112-113, 71-76. | 2.6 | 25 |
| 18 | Computational Evaluation of Carriers in Facilitated Transport Membranes for Postcombustion Carbon Capture. <i>Journal of Physical Chemistry C</i> , 2020, 124, 25322-25330. | 1.5 | 25 |

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|----|---|-----|-----------|
| 19 | Nanostructured Membrane Materials for CO ₂ Capture: A Critical Review. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 3173-3179. | 0.9 | 19 |
| 20 | Highly permeable polyethersulfone substrates with bicontinuous structure for composite membranes in CO ₂ /N ₂ separation. <i>Journal of Membrane Science</i> , 2020, 612, 118443. | 4.1 | 18 |
| 21 | Facilitated transport membranes for H ₂ purification from coal-derived syngas: A techno-economic analysis. <i>Journal of Membrane Science</i> , 2021, 636, 119549. | 4.1 | 17 |
| 22 | Scale-up of amine-containing membranes for hydrogen purification for fuel cells. <i>Journal of Membrane Science</i> , 2019, 573, 465-475. | 4.1 | 16 |
| 23 | Enhancing membrane performance for CO ₂ capture from flue gas with ultrahigh MW polyvinylamine. <i>Journal of Membrane Science</i> , 2021, 628, 119215. | 4.1 | 16 |
| 24 | Recent developments on polymeric membranes for CO ₂ capture from flue gas. <i>Journal of Polymer Engineering</i> , 2020, 40, 529-542. | 0.6 | 13 |
| 25 | Amine-Containing Membranes with Functionalized Multi-Walled Carbon Nanotubes for CO ₂ /H ₂ Separation. <i>Membranes</i> , 2020, 10, 333. | 1.4 | 13 |
| 26 | Removal of Cu(II) and Fe(III) from aqueous solutions by dead sulfate reducing bacteria. <i>Frontiers of Chemical Science and Engineering</i> , 2013, 7, 177-184. | 2.3 | 11 |
| 27 | Computational Prediction of Water Sorption in Facilitated Transport Membranes. <i>Journal of Physical Chemistry C</i> , 2022, 126, 3661-3670. | 1.5 | 9 |
| 28 | Fluoride- and hydroxide-containing CO ₂ -selective membranes for improving H ₂ utilization of solid oxide fuel cells. <i>Journal of Membrane Science</i> , 2020, 612, 118484. | 4.1 | 8 |
| 29 | Membrane processes for CO ₂ removal and fuel utilization enhancement for solid oxide fuel cells. <i>Journal of Membrane Science</i> , 2021, 620, 118846. | 4.1 | 8 |
| 30 | Mitigated carrier saturation of facilitated transport membranes for decarbonizing dilute CO ₂ sources: An experimental and techno-economic study. , 2022, 2, 100014. | | 7 |
| 31 | Bicontinuous substrates with reduced pore restriction for CO ₂ -selective composite membranes. <i>Journal of Membrane Science</i> , 2022, 654, 120547. | 4.1 | 6 |
| 32 | Matrimid substrates with bicontinuous surface and macrovoids in the bulk: A nearly ideal substrate for composite membranes in CO ₂ capture. <i>Applied Energy</i> , 2022, 311, 118624. | 5.1 | 5 |
| 33 | Moving beyond 90% Carbon Capture by Highly Selective Membrane Processes. <i>Membranes</i> , 2022, 12, 399. | 1.4 | 5 |
| 34 | A new measurement of amine steric hindrance " N exposure. <i>Separation and Purification Technology</i> , 2022, 299, 121601. | 3.9 | 4 |