# Hai-Yin Yu

List of Publications by Year
in descending order



| 48 | 1,984 | 218677 | 243625 |
|---|---|---|---|
| papers | citations | 26 h-index | 44 g-index |

| 48 | 48 | 48 | 1986 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Surface modification of polypropylene microporous membrane to improve its antifouling property in MBR: CO plasma treatment. Journal of Membrane Science, 2005, 254, 219-227. | 8.2 | 176 |
| 2 | Surface modification of polypropylene microporous membranes to improve their antifouling property in MBR: NH plasma treatment. Separation and Purification Technology, 2005, 45, 8-15. | 7.9 | 143 |
| 3 | Grafting polyzwitterions onto polyamide by click chemistry and nucleophilic substitution on nitrogen: A novel approach to enhance membrane fouling resistance. Journal of Membrane Science, 2014, 449, 50-57. | 8.2 | 121 |
| 4 | Improvement of the antifouling characteristics for polypropylene microporous membranes by the sequential photoinduced graft polymerization of acrylic acid. Journal of Membrane Science, 2006, 281, 658-665. | 8.2 | 107 |
| 5 | Surface modification of polypropylene microporous membrane to improve its antifouling characteristics in an SMBR: Air plasma treatment. Journal of Membrane Science, 2008, 311, 216-224. | 8.2 | 103 |
| 6 | Photoinduced graft polymerization of acrylamide on polypropylene microporous membranes for the improvement of antifouling characteristics in a submerged membrane-bioreactor. Separation and Purification Technology, 2007, 53, 119-125. | 7.9 | 85 |
| 7 | Surface modification of polypropylene microporous membrane to improve its antifouling characteristics in an SMBR: N2 plasma treatment. Water Research, 2007, 41, 4703-4709. | 11.3 | 77 |
| 8 | Plasma surface modification of polypropylene microfiltration membranes and fouling by BSA dispersion. Chemical Engineering Journal, 2008, 145, 218-224. | 12.7 | 75 |
| 9 | Polypropylene membrane surface modification by RAFT grafting polymerization and TiO2 photocatalysts immobilization for phenol decomposition in a photocatalytic membrane reactor. Separation and Purification Technology, 2011, 83, 157-165. | 7.9 | 74 |
| 10 | Preliminary Analysis of Strong-Motion Recordings from the Magnitude 8.0 Wenchuan, China, Earthquake of 12 May 2008. Seismological Research Letters, 2008, 79, 844-854. | 1.9 | 68 |
| 11 | Mitigated membrane fouling in an SMBR by surface modification. Journal of Membrane Science, 2008, 310, 409-417. | 8.2 | 64 |
| 12 | Layer-by-layer assembly of graphene oxide on polypropylene macroporous membranes via click chemistry to improve antibacterial and antifouling performance. Applied Surface Science, 2015, 332, 300-307. | 6.1 | 60 |
| 13 | Flux enhancement for polypropylene microporous membrane in a SMBR by the immobilization of poly(N-vinyl-2-pyrrolidone) on the membrane surface. Journal of Membrane Science, 2006, 279, 148-155. | 8.2 | 58 |
| 14 | Thermo- and pH-responsive polypropylene microporous membrane prepared by the photoinduced RAFT-mediated graft copolymerization. Journal of Membrane Science, 2009, 343, 82-89. | 8.2 | 58 |
| 15 | Chain-length dependence of the antifouling characteristics of the glycopolymer-modified polypropylene membrane in an SMBR. Journal of Membrane Science, 2009, 326, 145-152. | 8.2 | 49 |
| 16 | Bioinspired Supramolecular Catalysts from Designed Self-Assembly of DNA or Peptides. ACS Catalysis, 2020, 10, 14937-14958. | 11.2 | 48 |
| 17 | Surface Modification of Poly(propylene) Microporous Membrane to Improve Its Antifouling Characteristics in an SMBR: O<sub>2</sub> Plasma Treatment. Plasma Processes and Polymers, 2008, 5, 84-91. | 3.0 | 45 |
| 18 | Improvement of antifouling characteristics in a bioreactor of polypropylene microporous membrane by the adsorption of Tween 20. Journal of Environmental Sciences, 2007, 19, 1461-1465. | 6.1 | 44 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Surface modification of polypropylene macroporous membrane by marrying RAFT polymerization with click chemistry. Journal of Membrane Science, 2012, 421-422, 60-68. | 8.2 | 42 |
| 20 | Strong Lightâ€“Matter Interactions in Chiral Plasmonicâ€“Excitonic Systems Assembled on DNA Origami. Nano Letters, 2021, 21, 3573-3580. | 9.1 | 38 |
| 21 | Friedel-Crafts self-crosslinking of sulfonated poly(etheretherketone) composite proton exchange membrane doped with phosphotungstic acid and carbon-based nanomaterials for fuel cell applications. Journal of Membrane Science, 2020, 611, 118381. | 8.2 | 37 |
| 22 | Surface modification of polypropylene macroporous membrane to improve its antifouling characteristics in a submerged membrane-bioreactor: H2O plasma treatment. Water Research, 2008, 42, 4341-4347. | 11.3 | 35 |
| 23 | Top-Down Strategy of Implantable Biosensor Using Adaptable, Porous Hollow Fibrous Membrane. ACS Sensors, 2019, 4, 931-937. | 7.8 | 34 |
| 24 | Reducing protein fouling of a polypropylene microporous membrane by CO2 plasma surface modification. Desalination, 2009, 244, 80-89. | 8.2 | 33 |
| 25 | Manipulating membrane permeability and protein rejection of UV-modified polypropylene macroporous membrane. Journal of Membrane Science, 2010, 364, 203-210. | 8.2 | 31 |
| 26 | Photoinduced graft polymerization to improve antifouling characteristics of an SMBR. Journal of Membrane Science, 2007, 302, 235-242. | 8.2 | 27 |
| 27 | DNA Nanostructureâ€Based Imaging Probes and Drug Carriers. ChemMedChem, 2014, 9, 2013-2020. | 3.2 | 25 |
| 28 | Development of a novel RAFT-UV grafting technique to modify polypropylene membrane used for NOM removal. Separation and Purification Technology, 2010, 71, 233-240. | 7.9 | 24 |
| 29 | Antifouling characteristics of sugar immobilized polypropylene microporous membrane by activated sludge and bovine serum albumin. Separation and Purification Technology, 2009, 64, 332-336. | 7.9 | 21 |
| 30 | Methoxypolyethylene glycol grafting on polypropylene membrane for enhanced antifouling characteristics â€“ Effect of pendant length and grafting density. Separation and Purification Technology, 2016, 164, 81-88. | 7.9 | 21 |
| 31 | Improvement of Surface Properties of Poly(propylene) Hollow Fiber Microporous Membranes by Plasma-Induced Tethering of Sugar Moieties. Plasma Processes and Polymers, 2005, 2, 627-632. | 3.0 | 20 |
| 32 | Structural parameters reduction in polyamide forward osmosis membranes via click modification of the polysulfone support. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 585, 124082. | 4.7 | 20 |
| 33 | Preparation of poly(arylene ether ketone) based anion exchange membrane with pendant pyrimidinium and pyridazinium cation derivatives for alkaline fuel cell. Journal of Membrane Science, 2022, 659, 120778. | 8.2 | 19 |
| 34 | Fouling control in a submerged membraneâ€bioreactor by the membrane surface modification. Journal of Applied Polymer Science, 2010, 115, 2302-2309. | 2.6 | 17 |
| 35 | Surface modification of polypropylene membrane to improve antifouling characteristics in a submerged membrane-bioreactor: Ar plasma treatment. Membrane Water Treatment, 2010, 1, 83-92. | 0.5 | 16 |
| 36 | Integration of RAFT polymerization and click chemistry to fabricate PAMPS modified macroporous polypropylene membrane for protein fouling mitigation. Journal of Colloid and Interface Science, 2014, 435, 43-50. | 9.4 | 12 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Enhancement of the flux for polypropylene hollow fiber membrane in a submerged membrane-bioreactor by surface modification. Journal of Environmental Sciences, 2006, 18, 1050-1055. | 6.1 | 11 |
| 38 | Grafting Branch Length and Density Dependent Performance of Zwitterionic Polymer Decorated Polypropylene Membrane. Chinese Journal of Polymer Science (English Edition), 2018, 36, 528-535. | 3.8 | 11 |
| 39 | Controlled Grafting of Poly(methyl methacrylate) Brushes on Poly(vinylidene fluoride) Powders by Surfaceâ€initiated Atom Transfer Radical Polymerization. Chinese Journal of Chemistry, 2009, 27, 419-422. | 4.9 | 6 |
| 40 | Amphiphilic Block Copolymer of Poly(dimethylsiloxane) and Methoxypolyethylene Glycols for High-Permeable Polysulfone Membrane Preparation. ACS Omega, 2019, 4, 13052-13060. | 3.5 | 6 |
| 41 | Chlorineâ€resistant and internalâ€concentrationâ€polarizationâ€mitigated polyamide membrane via tethering poly(ethylene glycol) methacrylate. Journal of Applied Polymer Science, 2019, 136, 47406. | 2.6 | 5 |
| 42 | Low protein fouling polypropylene membrane prepared by photoinduced reversible additionâ€fragmentation chain transfer polymerization. Journal of Applied Polymer Science, 2012, 123, 3668-3674. | 2.6 | 4 |
| 43 | Shape-controllable Synthesis of Functional Nanomaterials on DNA Templates. Chemical Research in Chinese Universities, 2020, 36, 171-176. | 2.6 | 4 |
| 44 | A FACILE APPROACH FOR THE SURFACE MODIFICATION OF POLY(VINYLIDENE FLUORIDE) MEMBRANE VIA SURFACE-INITIATED ATOM TRANSFER RADICAL POLYMERIZATION. Chinese Journal of Polymer Science (English Edition), 2008, 26, 105. | 3.8 | 4 |
| 45 | Surface modification of nano-SiO2 by grafting PMMA/PBA. Chinese Journal of Chemistry, 2010, 21, 1297-1299. | 4.9 | 3 |
| 46 | Prediction of Decomposition Temperature for Lanthanide Complexes Involving Cyclopentadienyl and Benzohydroxamic Acid Ligand by ANNs. Chinese Journal of Chemistry, 2010, 20, 996-999. | 4.9 | 2 |
| 47 | Title is missing!. Chinese Journal of Polymer Science (English Edition), 2005, 23, 243. | 3.8 | 1 |
| 48 | Polymeric Membrane Science and Technology. International Journal of Polymer Science, 2013, 2013, 1-2. | 2.7 | 0 |