

Matthias Wessling

List of Publications by Year in descending order

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Version: 2024-02-01

595
papers

30,446
citations

5430

85
h-index

11946

139
g-index

608
all docs

608
docs citations

608
times ranked

24749
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Simulation-based guidance for improving CO ₂ reduction on silver gas diffusion electrodes. <i>Electrochemical Science Advances</i> , 2023, 3, . | 1.2 | 13 |
| 2 | Monolithic SiC supports with tailored hierarchical porosity for molecularly selective membranes and supported liquid-phase catalysis. <i>Catalysis Today</i> , 2022, 383, 44-54. | 2.2 | 8 |
| 3 | Porous PEDOT:PSS Particles and their Application as Tunable Cell Culture Substrate. <i>Advanced Materials Technologies</i> , 2022, 7, 2100836. | 3.0 | 13 |
| 4 | Three-dimensional membranes for artificial lungs: Comparison of flow-induced hemolysis. <i>Artificial Organs</i> , 2022, 46, 412-426. | 1.0 | 6 |
| 5 | Rotating microstructured spinnerets produce helical ridge membranes to overcome mass transfer limitations. <i>Journal of Membrane Science</i> , 2022, 643, 119988. | 4.1 | 8 |
| 6 | Additive manufacturing of composite porosity mixer electrodes. <i>Electrochemistry Communications</i> , 2022, 134, 107176. | 2.3 | 10 |
| 7 | Open and dense hollow fiber nanofiltration membranes through a streamlined polyelectrolyte-based spinning process. <i>Journal of Membrane Science</i> , 2022, 644, 120100. | 4.1 | 9 |
| 8 | Two-level porosity electrodes from metal-polymer dispersions. <i>Electrochemistry Communications</i> , 2022, 135, 107205. | 2.3 | 2 |
| 9 | Why device design is crucial for membrane adsorbers. <i>Journal of Chromatography Open</i> , 2022, 2, 100029. | 0.8 | 16 |
| 10 | Linking the effect of temperature on adsorption from aqueous solution with solute dissociation. <i>Journal of Hazardous Materials</i> , 2022, 429, 128291. | 6.5 | 6 |
| 11 | Surface Charge Affecting Fluid-Fluid Displacement at Pore Scale. <i>Advanced Materials Interfaces</i> , 2022, 9, . | 1.9 | 5 |
| 12 | Chemistry in a spinneret-Polydopamine functionalized hollow fiber membranes. <i>Journal of Membrane Science</i> , 2022, 648, 120324. | 4.1 | 11 |
| 13 | In-Line Characterization of the Temperature-Responsive Behavior of Surface-Bound Microgel Coatings by QCM-D: A Novel Strategy for Protein Repellence Evaluation. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 10907-10916. | 4.0 | 4 |
| 14 | Fabrication, Flow Assembly, and Permeation of Microscopic Any-Shape Particles. <i>Small</i> , 2022, 18, e2107508. | 5.2 | 10 |
| 15 | Evaluation of the membrane performance of ultra-smooth silicon organic coatings depending on the process energy density. <i>Thin Solid Films</i> , 2022, 748, 139169. | 0.8 | 4 |
| 16 | Single-step chitosan functionalized membranes for heparinization. <i>Journal of Membrane Science</i> , 2022, 655, 120567. | 4.1 | 9 |
| 17 | Rotation-in-a-Spinneret integrates static mixers inside hollow fiber membranes. <i>Journal of Membrane Science</i> , 2022, 656, 120599. | 4.1 | 7 |
| 18 | TPMS-based membrane lung with locally-modified permeabilities for optimal flow distribution. <i>Scientific Reports</i> , 2022, 12, 7160. | 1.6 | 5 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Direct Electrosynthesis of 2-Butanone from Fermentation Supernatant. ACS Sustainable Chemistry and Engineering, 2022, 10, 6483-6492. | 3.2 | 3 |
| 20 | Organosilica coating layer prevents aging of a polymer with intrinsic microporosity. Plasma Processes and Polymers, 2022, 19, . | 1.6 | 2 |
| 21 | One-pot synthesized, Fe-incorporated self-standing carbons with a hierarchical porosity remove carbamazepine and sulfamethoxazole through heterogeneous electro-Fenton. Chemical Engineering Journal, 2022, 446, 137006. | 6.6 | 12 |
| 22 | Towards synergistic oscillations in enzymatically active hydrogel spheres. Soft Matter, 2021, 17, 592-599. | 1.2 | 8 |
| 23 | Designing tubular composite membranes of polyelectrolyte multilayer on ceramic supports with nanofiltration and reverse osmosis transport properties. Journal of Membrane Science, 2021, 620, 118851. | 4.1 | 18 |
| 24 | Hydrogel membranes made from crosslinked microgel multilayers with tunable density. Journal of Membrane Science, 2021, 620, 118912. | 4.1 | 18 |
| 25 | On the organic solvent free preparation of ultrafiltration and nanofiltration membranes using polyelectrolyte complexation in an all aqueous phase inversion process. Journal of Membrane Science, 2021, 618, 118632. | 4.1 | 44 |
| 26 | Ultra-low temperature water-gas shift reaction catalyzed by homogeneous Ru-complexes in a membrane reactor membrane development and proof of concept. Catalysis Science and Technology, 2021, 11, 1558-1570. | 2.1 | 9 |
| 27 | Polyelectrolyte Complex Tubular Membranes via a Salt Dilution Induced Phase Inversion Process. Advanced Engineering Materials, 2021, 23, 2001401. | 1.6 | 18 |
| 28 | CNT Microtubes with Entrapped Fe ₃ O ₄ Nanoparticles Remove Micropollutants through a Heterogeneous Electro-Fenton Process at Neutral pH. Advanced Sustainable Systems, 2021, 5, 2100001. | 2.7 | 20 |
| 29 | In-situ investigation of wetting patterns in polymeric multibore membranes via magnetic resonance imaging. Journal of Membrane Science, 2021, 622, 119026. | 4.1 | 4 |
| 30 | Efficient Electrocatalytic N ₂ Reduction on Three-Phase Interface Coupled in a Three-Compartment Flow Reactor for the Ambient NH ₃ Synthesis. ACS Applied Materials & Interfaces, 2021, 13, 21411-21425. | 4.0 | 29 |
| 31 | A scalable bubble-free membrane aerator for biosurfactant production. Biotechnology and Bioengineering, 2021, 118, 3545-3558. | 1.7 | 13 |
| 32 | 3D-Printed Bioreactor with Integrated Impedance Spectroscopy for Cell Barrier Monitoring. Advanced Materials Technologies, 2021, 6, 2100009. | 3.0 | 7 |
| 33 | Recycling and Separation of Homogeneous Catalyst from Aqueous Multicomponent Mixture by Organic Solvent Nanofiltration. Membranes, 2021, 11, 423. | 1.4 | 4 |
| 34 | Wet-Spun PEDOT/CNT Composite Hollow Fibers as Flexible Electrodes for H ₂ O ₂ Production**. ChemElectroChem, 2021, 8, 1665-1673. | 1.7 | 7 |
| 35 | Reconstruction of Ultra-thin Alveolar-capillary Basement Membrane Mimics. Advanced Biology, 2021, 5, e2000427. | 1.4 | 9 |
| 36 | Particle movements provoke avalanche-like compaction in soft colloid filter cakes. Scientific Reports, 2021, 11, 12836. | 1.6 | 5 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Polymeric Membranes With Sufficient Thermo-Mechanical Stability to Deploy Temperature Enhanced Backwash. <i>Chemie-Ingenieur-Technik</i> , 2021, 93, 1417-1422. | 0.4 | 0 |
| 38 | Mitigating Water Crossover by Crosslinked Coating of Cation-Exchange Membranes for Brine Concentration. <i>Advanced Materials Technologies</i> , 2021, 6, 2100202. | 3.0 | 6 |
| 39 | Tollens Reaction-Based Integration of Thin Film Wall Electrodes into Microfluidic PDMS Devices. <i>Advanced Materials Technologies</i> , 2021, 6, 2100250. | 3.0 | 1 |
| 40 | Combining Manning's theory and the ionic conductivity experimental approach to characterize selectivity of cation exchange membranes. <i>Journal of Membrane Science</i> , 2021, 629, 119263. | 4.1 | 15 |
| 41 | Biocompatible Micron-Scale Silk Fibers Fabricated by Microfluidic Wet Spinning. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100898. | 3.9 | 19 |
| 42 | Metal Recovery from Multi-elementary Electroplating Wastewater Using Passion Fruit Powder. <i>Journal of Sustainable Metallurgy</i> , 2021, 7, 1091-1101. | 1.1 | 5 |
| 43 | In-line Monitoring of Microgel Synthesis: Flow versus Batch Reactor. <i>Organic Process Research and Development</i> , 2021, 25, 2039-2051. | 1.3 | 7 |
| 44 | Freestanding Nitrogen-Doped Carbons with Hierarchical Porosity for Environmental Applications: A Green Templating Route with Bio-Based Precursors. <i>Global Challenges</i> , 2021, 5, 2100062. | 1.8 | 1 |
| 45 | Wetting-Induced Polyelectrolyte Pore Bridging. <i>Membranes</i> , 2021, 11, 671. | 1.4 | 0 |
| 46 | Structure and gas separation properties of ultra-smooth PE-CVD silicon organic coated composite membranes. <i>Surface and Coatings Technology</i> , 2021, 421, 127338. | 2.2 | 11 |
| 47 | Structure-dependent gas transfer performance of 3D-membranes for artificial membrane lungs. <i>Journal of Membrane Science</i> , 2021, 634, 119371. | 4.1 | 16 |
| 48 | Automated tangential-flow diafiltration device. <i>HardwareX</i> , 2021, 10, e00200. | 1.1 | 4 |
| 49 | Mapping Cell Viability Quantitatively and Independently From Cell Density in 3D Gels Noninvasively. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 2940-2947. | 2.5 | 0 |
| 50 | Charge distribution in polyelectrolyte multilayer nanofiltration membranes affects ion separation and scaling propensity. <i>Journal of Membrane Science</i> , 2021, 636, 119533. | 4.1 | 15 |
| 51 | How does porosity heterogeneity affect the transport properties of multibore filtration membranes?. <i>Journal of Membrane Science</i> , 2021, 636, 119520. | 4.1 | 5 |
| 52 | A mini-module with built-in spacers for high-throughput ultrafiltration. <i>Journal of Membrane Science</i> , 2021, 637, 119602. | 4.1 | 12 |
| 53 | Tuning the excess charge and inverting the salt rejection hierarchy of polyelectrolyte multilayer membranes. <i>Journal of Membrane Science</i> , 2021, 639, 119636. | 4.1 | 15 |
| 54 | Direct 3D observation and unraveling of electroconvection phenomena during concentration polarization at ion-exchange membranes. <i>Journal of Membrane Science</i> , 2021, 640, 119846. | 4.1 | 15 |

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|----|--|-----|-----------|
| 55 | Templating the morphology of soft microgel assemblies using a nanolithographic 3D-printed membrane. <i>Scientific Reports</i> , 2021, 11, 812. | 1.6 | 8 |
| 56 | Platelet count reduction during in vitro membrane oxygenation affects platelet activation, neutrophil extracellular trap formation and clot stability, but does not prevent clotting. <i>Perfusion (United Kingdom)</i> , 2021, , 026765912198923. | 0.5 | 10 |
| 57 | Short and spaced twisted tapes to mitigate fouling in tubular membranes. <i>Journal of Membrane Science</i> , 2020, 595, 117426. | 4.1 | 18 |
| 58 | Metallized hollow fiber membranes for electrochemical fouling control. <i>Journal of Membrane Science</i> , 2020, 594, 117397. | 4.1 | 19 |
| 59 | Tracking homogeneous reactions during electro dialysis of organic acids via EIS. <i>Journal of Membrane Science</i> , 2020, 595, 117592. | 4.1 | 26 |
| 60 | Monodisperse Porous Microspheres with pH-Responsive Permeability and Reactivity. <i>ACS Applied Polymer Materials</i> , 2020, 2, 932-938. | 2.0 | 7 |
| 61 | Soft temperature-responsive microgels of complex shape in stop-flow lithography. <i>Lab on A Chip</i> , 2020, 20, 285-295. | 3.1 | 34 |
| 62 | Co-generation of Ammonia and H ₂ from H ₂ O Vapor and N ₂ Using a Membrane Electrode Assembly. <i>Chemie-Ingenieur-Technik</i> , 2020, 92, 62-69. | 0.4 | 2 |
| 63 | Ion mobility and partition determine the counter-ion selectivity of ion exchange membranes. <i>Journal of Membrane Science</i> , 2020, 597, 117645. | 4.1 | 49 |
| 64 | Tubular hollow fibre electrodes for CO ₂ reduction made from copper aluminum alloy with drastically increased intrinsic porosity. <i>Electrochemistry Communications</i> , 2020, 111, 106645. | 2.3 | 20 |
| 65 | The hydrothermal solution for self-sustaining drinking water purification at point of use. <i>Water Research</i> , 2020, 170, 115338. | 5.3 | 8 |
| 66 | CO ₂ /CH ₄ Pure- and Mixed-Gas Dilation and Sorption in Thin (≈4500 nm) and Ultrathin (≈450 nm) Polymers of Intrinsic Microporosity. <i>Macromolecules</i> , 2020, 53, 8765-8774. | 2.2 | 16 |
| 67 | Process model for high salinity flow-electrode capacitive deionization processes with ion-exchange membranes. <i>Journal of Membrane Science</i> , 2020, 616, 118614. | 4.1 | 13 |
| 68 | How is mixed-gas permeation through poly(1-trimethylsilyl-1-propyne) membranes influenced by elevated temperatures?. <i>Journal of Membrane Science</i> , 2020, 615, 118430. | 4.1 | 8 |
| 69 | Can PDMS membranes separate aldehydes and alkenes at high temperatures?. <i>Journal of Membrane Science</i> , 2020, 615, 118334. | 4.1 | 8 |
| 70 | Continuous gas-phase hydroformylation of but-1-ene in a membrane reactor by supported liquid-phase (SLP) catalysis. <i>Green Chemistry</i> , 2020, 22, 5691-5700. | 4.6 | 26 |
| 71 | Wet-spinning of Biocompatible Core-Shell Polyelectrolyte Complex Fibers for Tissue Engineering. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000849. | 1.9 | 21 |
| 72 | Direct membrane heating for temperature induced fouling prevention. <i>Journal of Membrane Science</i> , 2020, 612, 118431. | 4.1 | 5 |

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|----|---|-----|-----------|
| 73 | About a Membrane with Microfluidic Porous-Wall Channels of Cylindrical Shape for Droplet Formation. <i>Langmuir</i> , 2020, 36, 9935-9943. | 1.6 | 2 |
| 74 | Unravelling colloid filter cake motions in membrane cleaning procedures. <i>Scientific Reports</i> , 2020, 10, 20043. | 1.6 | 9 |
| 75 | Stimuli-Responsive Zwitterionic Core-Shell Microgels for Antifouling Surface Coatings. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 58223-58238. | 4.0 | 33 |
| 76 | Trypsin-Free Cultivation of 3D Mini-Tissues in an Adaptive Membrane Bioreactor. <i>Advanced Biology</i> , 2020, 4, e2000081. | 3.0 | 2 |
| 77 | Microtubular Gas Diffusion Electrode Based on Ruthenium-Carbon Nanotubes for Ambient Electrochemical Nitrogen Reduction to Ammonia. <i>ChemElectroChem</i> , 2020, 7, 4679-4684. | 1.7 | 17 |
| 78 | Multi-scale membrane process optimization with high-fidelity ion transport models through machine learning. <i>Journal of Membrane Science</i> , 2020, 608, 118208. | 4.1 | 38 |
| 79 | Cell barrier characterization in transwell inserts by electrical impedance spectroscopy. <i>Biosensors and Bioelectronics</i> , 2020, 165, 112345. | 5.3 | 23 |
| 80 | Early-stage evaluation of emerging CO ₂ utilization technologies at low technology readiness levels. <i>Green Chemistry</i> , 2020, 22, 3842-3859. | 4.6 | 71 |
| 81 | Catalytically Active Hollow Fiber Membranes with Enzyme-Embedded Metal-Organic Framework Coating. <i>Angewandte Chemie</i> , 2020, 132, 16181-16187. | 1.6 | 6 |
| 82 | Catalytically Active Hollow Fiber Membranes with Enzyme-Embedded Metal-Organic Framework Coating. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 16047-16053. | 7.2 | 32 |
| 83 | Modeling hindered diffusion of antibodies in agarose beads considering pore size reduction due to adsorption. <i>Journal of Chromatography A</i> , 2020, 1626, 461319. | 1.8 | 8 |
| 84 | Steady-state electrochemical synthesis of HKUST-1 with polarity reversal. <i>Microporous and Mesoporous Materials</i> , 2020, 303, 110218. | 2.2 | 19 |
| 85 | Flow-electrode capacitive deionization enables continuous and energy-efficient brine concentration. <i>Desalination</i> , 2020, 490, 114453. | 4.0 | 37 |
| 86 | A comprehensive mathematical model of water splitting in bipolar membranes: Impact of the spatial distribution of fixed charges and catalyst at bipolar junction. <i>Journal of Membrane Science</i> , 2020, 603, 118010. | 4.1 | 62 |
| 87 | Enhancing the separation properties of plasma polymerized membranes on polydimethylsiloxane substrates by adjusting the auxiliary gas in the PECVD processes. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 445301. | 1.3 | 10 |
| 88 | Atomic layer deposition for efficient oxygen evolution reaction at Pt/Ir catalyst layers. <i>Beilstein Journal of Nanotechnology</i> , 2020, 11, 952-959. | 1.5 | 6 |
| 89 | What are the microscopic events during membrane backwashing?. <i>Journal of Membrane Science</i> , 2020, 602, 117886. | 4.1 | 21 |
| 90 | Chemistry in a spinneret - Formation of hollow fiber membranes with a cross-linked polyelectrolyte separation layer. <i>Journal of Membrane Science</i> , 2020, 612, 118325. | 4.1 | 19 |

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| 91 | Freestanding PAC/CNT microtubes remove sulfamethoxazole from water through a temperature-assisted cyclic process. <i>Journal of Hazardous Materials</i> , 2020, 392, 122133. | 6.5 | 13 |
| 92 | Hydrotropic Solutions Enable Homogeneous Fenton Treatment of Lignin. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 4229-4238. | 1.8 | 5 |
| 93 | Rational Design of Ion Exchange Membrane Material Properties Limits the Crossover of CO ₂ Reduction Products in Artificial Photosynthesis Devices. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 12030-12042. | 4.0 | 31 |
| 94 | Simultaneous rational design of ion separation membranes and processes. <i>Journal of Membrane Science</i> , 2020, 600, 117860. | 4.1 | 29 |
| 95 | On the permselectivity of cation-exchange membranes bearing an ion selective coating. <i>Journal of Membrane Science</i> , 2020, 600, 117854. | 4.1 | 36 |
| 96 | Modular modeling of electrochemical reactors: Comparison of CO ₂ -electrolyzers. <i>Computers and Chemical Engineering</i> , 2020, 139, 106890. | 2.0 | 19 |
| 97 | Assessment of Layer-By-Layer Modified Nanofiltration Membrane Stability in Phosphoric Acid. <i>Membranes</i> , 2020, 10, 61. | 1.4 | 12 |
| 98 | Unraveling the effect of charge distribution in a polyelectrolyte multilayer nanofiltration membrane on its ion transport properties. <i>Journal of Membrane Science</i> , 2020, 611, 118045. | 4.1 | 33 |
| 99 | Membrane-electrode assemblies for flow-electrode capacitive deionization. <i>Journal of Membrane Science</i> , 2020, 605, 118095. | 4.1 | 25 |
| 100 | Combining electrochemical hydrogen separation and temperature vacuum swing adsorption for the separation of N ₂ , H ₂ and CO ₂ . <i>International Journal of Hydrogen Energy</i> , 2020, 45, 9811-9820. | 3.8 | 6 |
| 101 | On the Resistances of a Slurry Electrode Vanadium Redox Flow Battery. <i>ChemElectroChem</i> , 2020, 7, 2165-2172. | 1.7 | 12 |
| 102 | A Tubular Electrochemical Reactor for Slurry Electrodes. <i>ChemElectroChem</i> , 2020, 7, 2665-2671. | 1.7 | 11 |
| 103 | Noninvasive Quantification of Cell Density in Three-Dimensional Gels by MRI. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 821-830. | 2.5 | 3 |
| 104 | Layer-by-layer membrane modification allows scandium recovery by nanofiltration. <i>Environmental Science: Water Research and Technology</i> , 2019, 5, 1683-1688. | 1.2 | 24 |
| 105 | Homogeneous Catalyst Recycling and Separation of a Multicomponent Mixture Using Organic Solvent Nanofiltration. <i>Chemical Engineering and Technology</i> , 2019, 42, 2187-2194. | 0.9 | 9 |
| 106 | Charged microgels adsorbed on porous membranes - A study of their mobility and molecular retention. <i>Journal of Membrane Science</i> , 2019, 588, 117190. | 4.1 | 12 |
| 107 | Lithography: Two-Photon Vertical-Flow Lithography for Microtube Synthesis (<i>Small</i> 33/2019). <i>Small</i> , 2019, 15, 1970177. | 5.2 | 7 |
| 108 | Multi-walled carbon nanotube-based composite materials as catalyst support for water-gas shift and hydroformylation reactions. <i>RSC Advances</i> , 2019, 9, 27732-27742. | 1.7 | 16 |

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|-----|--|------|-----------|
| 109 | Unraveling charge transport in carbon flow-electrodes: Performance prediction for desalination applications. Carbon, 2019, 145, 507-520. | 5.4 | 71 |
| 110 | Optimizing hybrid membrane-pressure swing adsorption processes for biogenic hydrogen recovery. Chemical Engineering Journal, 2019, 364, 452-461. | 6.6 | 35 |
| 111 | Chilled membranesâ€”Efficient gas permeation at sub-ambient temperatures. Journal of Membrane Science, 2019, 576, 171-181. | 4.1 | 6 |
| 112 | Improved phosphoric acid recovery from sewage sludge ash using layer-by-layer modified membranes. Journal of Membrane Science, 2019, 587, 117-162. | 4.1 | 51 |
| 113 | Twoâ€”Photon Verticalâ€”Flow Lithography for Microtube Synthesis. Small, 2019, 15, e1901356. | 5.2 | 24 |
| 114 | Shell and lumen side flow and pressure communication during permeation and filtration in a multibore polymer membrane module. Journal of Membrane Science, 2019, 584, 254-267. | 4.1 | 15 |
| 115 | Chemistry in a spinneret â€” Sinusoidal-shaped composite hollow fiber membranes. Journal of Membrane Science, 2019, 585, 115-125. | 4.1 | 22 |
| 116 | Converting two wastes to value. Nature Energy, 2019, 4, 440-441. | 19.8 | 8 |
| 117 | The electrolyte matters: Stable systems for high rate electrochemical CO ₂ reduction. Journal of CO ₂ Utilization, 2019, 32, 202-213. | 3.3 | 68 |
| 118 | Cell Encapsulation in Soft, Anisometric Poly(ethylene) Glycol Microgels Using a Novel Radicalâ€”Free Microfluidic System. Small, 2019, 15, e1900692. | 5.2 | 39 |
| 119 | Electrical swing adsorption on functionalized hollow fibers. Chemical Engineering Journal, 2019, 371, 107-117. | 6.6 | 29 |
| 120 | Preparation and characterization of crosslinked poly(vinylimidazolium) anion exchange membranes for artificial photosynthesis. Journal of Materials Chemistry A, 2019, 7, 23818-23829. | 5.2 | 21 |
| 121 | On charge percolation in slurry electrodes used in vanadium redox flow batteries. Electrochemistry Communications, 2019, 101, 104-108. | 2.3 | 34 |
| 122 | Phosphorus recovery in an acidic environment using layer-by-layer modified membranes. Journal of Membrane Science, 2019, 582, 254-263. | 4.1 | 40 |
| 123 | Lewis acidic water as a new carrier for facilitating CO ₂ transport. Journal of Materials Chemistry A, 2019, 7, 5190-5194. | 5.2 | 6 |
| 124 | High-Throughput Production of Micrometer Sized Double Emulsions and Microgel Capsules in Parallelized 3D Printed Microfluidic Devices. Polymers, 2019, 11, 1887. | 2.0 | 15 |
| 125 | Direct Observation of Deformation in Microgel Filtration. Scientific Reports, 2019, 9, 18998. | 1.6 | 20 |
| 126 | Effect of the 3D Swelling of Microgels on Their 2D Phase Behavior at the Liquidâ€”Liquid Interface. Langmuir, 2019, 35, 16780-16792. | 1.6 | 47 |

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|-----|--|-----|-----------|
| 127 | Can the variance in membrane performance influence the design of organic solvent nanofiltration processes?. <i>Journal of Membrane Science</i> , 2019, 575, 217-228. | 4.1 | 28 |
| 128 | Aqueous-Phase Temperature Swing Adsorption for Pesticide Removal. <i>Environmental Science & Technology</i> , 2019, 53, 919-927. | 4.6 | 21 |
| 129 | Aerating static mixers prevent fouling. <i>Journal of Membrane Science</i> , 2019, 570-571, 537-546. | 4.1 | 21 |
| 130 | Carbon nanotube silica composite hollow fibers impregnated with polyethylenimine for CO ₂ capture. <i>Chemical Engineering Journal</i> , 2019, 359, 476-484. | 6.6 | 40 |
| 131 | Beyond the catalyst: How electrode and reactor design determine the product spectrum during electrochemical CO ₂ reduction. <i>Chemical Engineering Journal</i> , 2019, 364, 89-101. | 6.6 | 160 |
| 132 | Influence of flow alterations on bacteria retention during microfiltration. <i>Journal of Membrane Science</i> , 2019, 575, 147-159. | 4.1 | 7 |
| 133 | 2D Patterned Ion-Exchange Membranes Induce Electroconvection. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801309. | 1.9 | 40 |
| 134 | Indirect 3D Printed Electrode Mixers. <i>ChemElectroChem</i> , 2019, 6, 378-382. | 1.7 | 20 |
| 135 | Methanol production via direct carbon dioxide hydrogenation using hydrogen from photocatalytic water splitting: Process development and techno-economic analysis. <i>Journal of Cleaner Production</i> , 2019, 208, 1446-1458. | 4.6 | 58 |
| 136 | Carboxylic Acids Production via Electrochemical Depolymerization of Lignin. <i>ChemElectroChem</i> , 2019, 6, 1434-1442. | 1.7 | 38 |
| 137 | Electrochemical Membrane Reactor Modeling for Lignin Depolymerization. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 2091-2099. | 3.2 | 9 |
| 138 | Rational design of ion separation membranes. <i>Journal of Membrane Science</i> , 2019, 569, 209-219. | 4.1 | 46 |
| 139 | Fouling minimization at membranes having a 3D surface topology with microgels as soft model colloids. <i>Journal of Membrane Science</i> , 2019, 569, 7-16. | 4.1 | 28 |
| 140 | Chemistry in a spinneret – Composite hollow fiber membranes in a single step process. <i>Journal of Membrane Science</i> , 2018, 554, 48-58. | 4.1 | 27 |
| 141 | 3D MRI velocimetry of non-transparent 3D-printed staggered herringbone mixers. <i>Chemical Engineering Journal</i> , 2018, 343, 54-60. | 6.6 | 24 |
| 142 | 3D-printed conductive static mixers enable all-vanadium redox flow battery using slurry electrodes. <i>Journal of Power Sources</i> , 2018, 379, 228-233. | 4.0 | 44 |
| 143 | What are the microscopic events of colloidal membrane fouling?. <i>Journal of Membrane Science</i> , 2018, 553, 90-98. | 4.1 | 45 |
| 144 | Corrosion of metal electrodes in deep eutectic solvents. <i>Electrochemistry Communications</i> , 2018, 90, 101-105. | 2.3 | 32 |

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|-----|--|-----|-----------|
| 145 | 3D nanofabrication inside rapid prototyped microfluidic channels showcased by wet-spinning of single micrometre fibres. <i>Lab on A Chip</i> , 2018, 18, 1341-1348. | 3.1 | 55 |
| 146 | Continuous hyperpolarization with parahydrogen in a membrane reactor. <i>Journal of Magnetic Resonance</i> , 2018, 291, 8-13. | 1.2 | 39 |
| 147 | Tuning the ion selectivity of porous poly(2,5-benzimidazole) membranes by phase separation for all vanadium redox flow batteries. <i>Journal of Membrane Science</i> , 2018, 556, 164-177. | 4.1 | 34 |
| 148 | Closing the cycle: Phosphorus removal and recovery from diluted effluents using acid resistive membranes. <i>Chemical Engineering Journal</i> , 2018, 346, 640-648. | 6.6 | 47 |
| 149 | Fouling mitigation in tubular membranes by 3D-printed turbulence promoters. <i>Journal of Membrane Science</i> , 2018, 554, 156-163. | 4.1 | 68 |
| 150 | Flow and filtration imaging of single use sterile membrane filters. <i>Journal of Membrane Science</i> , 2018, 552, 274-285. | 4.1 | 15 |
| 151 | Unravelling Electrochemical Lignin Depolymerization. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 7565-7573. | 3.2 | 29 |
| 152 | Monolayer microgel composite membranes with tunable permeability. <i>Journal of Membrane Science</i> , 2018, 555, 473-482. | 4.1 | 33 |
| 153 | Selectivity of ion exchange membranes: A review. <i>Journal of Membrane Science</i> , 2018, 555, 429-454. | 4.1 | 722 |
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