

NAMS 2024 Poster Presentations

ID #	Paper Title	Author
8	Investigating PIM-1 and cPIM-1 applications for CCUS under real-world conditions	Sean R McIntyre
10	Exploring the separation efficiency of ultra-selective 3D CANAL hydrocarbon polymeric membranes for hydrogen-based separations after long-term aging	Jing Ying Yeo
11	Engineering SPEEK-based membranes for high-performance air dehumidification	Faheem Hassan Akhtar
13	Near-frictionless ion transport within triazine framework membranes	Chunchun Ye
15	Continuous Production Lines of Biotherapeutics: Implications on Viral Clearance	Yair Kaufman
16	Understanding the mechanism of additive-assisted isoporous membrane formation through X-ray scattering	Noah P Wamble
17	Impact of Diverse Crosslinkers on Salt Transport in Phenyl Acrylate-Based Anion Exchange Membranes for Artificial Photosynthesis	Yihung Lin
18	Ion and water dynamics in the transition from dry to wet conditions in salt-doped PEG	Nico Marioni

21	Exploiting the chirality of the cyclic diamine for developing polyamide thin film composite membrane for selective organic solvent nanofiltration	Abdul Waheed
22	Novel artificial water channel membranes with improved molecular separation properties in reverse osmosis	Maria Di Vincenzo
23	Ultra-high hydrogen/carbon dioxide selectivity in carbon hollow fiber membranes	Chen Zhang
24	Synthesis and Testing of Electrochemical Activity in a Polyether Sulfone-Based Ultrafiltration Membrane for Contaminant Removal	Utkarsh Misra
26	Membrane Optimization and Filtration Strategies Using Nanoparticles for Enhanced Efficiency in Gene Therapy Applications	Mara Leach
27	Optimizing electrospun composite-fiber patterns on nanofiltration membranes for improved biofouling resistance	Amos Taiswa
28	A Click Chemistry-Based Platform for the Selective Separation of Lanthanides from Industrial Waste	Lianna Johnson
30	Strategy to improve permeate flux for typical nanofiltration membranes by modifying the polysulfone support and their application in desalination and micropollutant removal.	Shehzada Muhammad Sajid Jillani
31	Internal 3-dimensional structure of hydrated polyamide RO membranes revealed by cryo-electron tomography (cryo-ET)	Chenhao Yao
32	Synthesis and Characterization of ZnCl2-Immobilized Molten Salt (IMS) membrane for NH3 separation	Moses T Adejumo
33	Nanofiltration of residual water from the hydrodistillation of Rosa x Damascena	Nevena Al. Lazarova-Zdravkova
36	Elucidating the role of PEGMA as a blocking group in ion exchange membranes for CO2 reduction products crossover	Antara Mazumder
37	Co-Transport of Alcohols and Carboxylate Ions in Sulfonated Ion Exchange Membranes with PEGPEA as a Blocking Group	Pravin Parasakthi Aravindhan
39	Probing ion hydration in cation-exchange membranes via x-ray absorption spectroscopy	José Carlos Díaz
41	Mixed counter-ion sorption in ion-exchange membranes: understanding the role of membrane water content	Harsh Patel
42	Removal of Dodecyl Benzenesulfonic Acid by Amine-Modified Membrane Adsorbers	Hadi Rouhi
43	Amine Functionalized Supported Ionic Liquid Membranes (SILMs) for CO2/N2 Separation	Antoine Chamoun-Farah
44	Surfactant-assisted interfacial polymerization of polyamide reverse osmosis membranes for desalination applications	Vrajkumar Shah
46	Revisiting experimental techniques and theoretical models for estimating the solubility parameter of rubbery and glassy polymer	Matthew T Webb

49	Three-dimensional salt and water transport model in composite membranes: effect of the internal structure.	Fernan David Martinez Jimenez
51	Dynamic ammonium retention for nutrient separation from manure digestate	Marrit van der Wal
52	Combining hydrolysis, polyelectrolyte layers and crosslinking to modify ultrafiltration membranes for the separation of nutrients from manure	Marrit van der Wal
53	Enhanced bipolar membrane water disassociation reaction with layer-by-layer assembled clay composite junctions	Nadia Boulif
54	Energy losses by ion crossover in the acid-base flow battery: effect of state of charge and current density	Nadia Boulif
55	Synthesis of Polyimide-Based Recyclable Membranes using Vapor- Assisted Phase Separation for Membrane Distillation	Toheeb O Obidara
56	Application of nanomembrane separation for isolation of natural biologically active components	Dimitar Peshev
58	Amine Modified PIM-1 for Highly Selective Olefin/Paraffin Separation	Bo Wei Cynthia Chen
61	Hydrothermally Stable Polyorganosilica Membranes Synthesized by Oxygen Plasma Treatment of Phenyl-Containing Polysiloxanes for H2 /CO2 Separation	Vinh Bui
62	Towards the Synthesis of Hydrophilic Membranes for PFAS Removal by Molecular Layer Deposition	Joelle V Scott
68	Co-Ion Specific Effect on Li Salt Sorption in Cation Exchange Membranes (CEM)	Rachel Z Huang
69	Membrane-Based Dehumidification using Fertilizer Liquid Desiccants: Experimental and Numerical Evaluation of Energy Efficiency	Sandeep Aryal
71	Influence of backbone rigidity and water content on lithium/magnesium selectivity in hydrated polymer membranes	Paul R Irving
72	Distributed Membrane-Based Water Desalination and Purification Systems: Automation, Data-Driven Operational Models, and Performance Forecasting	Yoram Cohen
73	Nanofiltration membranes with thermo- and pH-responsive behavior from lyotropic liquid crystal templating	Reza Foudazi
74	Crown Ether-Based Polyimides for Acid Gas Removal from Natural Gas	Dana Wong
75	Oxidative, catalytic oxidative and non-oxidative electro-cleaning of fouled conductive membranes	Najmul Haque Barbhuiya
76	Three-dimensional modeling of flow and mass transfer in spacer- filled channels in Reverse osmosis/Nanofiltration processes	Santiago Cespedes
78	Poly(ether ketone ketone) and poly(ether ether ketone) hollow fibers using acid resistant spinnerets for organic solvent nanofiltration applications	Lakshmeesha Upadhyaya

79	The influence of Donnan – Manning and dielectric exclusion on ion partitioning in sulfonated polysulfone	Sean M Bannon
80	Understanding the influence of external sodium chloride concentration on ion diffusion in sulfonated polymers	Sean M Bannon
81	Evaluation of air addition into methane dry reforming reaction in Pd/YSZ membrane reactor for syngas production	Omid Jazani
83	Techno-economic feasibility analysis of membrane-based purification platforms for AAV vectors production	Juan J Romero
84	Developments in the Preparation of PVDF Hollow Fiber Membranes from Alternate Solvents	Stephen JA DeWitt
86	A study of NF membrane assessment as pretreatment for lithium recovery from salt-lake brine	Juan Zhai
89	Volatile fatty acid selectivity during electrodialysis: role of solution composition on volatile fatty acid mobility and partitioning in an anion exchange membrane	Holly M Haflich
90	Effect of Pattern Size Relative to Oil Droplet Size on Oil Fouling in Nanofiltration Poster	Lauren M Ward
93	Unusual transport of phenolic compounds in polymer membranes.	Woo Jin Jang
94	Organic solvent nanofiltration and reverse osmosis performance of carboxylated PIM-1 in neat and inter-crosslinked mixed membrane configurations	Lucas Condes
97	Tightening ultramicropores of structurally engineered carbon molecular sieve membranes for precise gas separation	Zhongyun Liu
99	Driving force, heat transfer and permeate flux resistance during organic fouling in membrane distillation	Francesco Ricceri
100	UV-Crosslinked Nanocomposite Membranes for Fast and Selective Transport of Small Molecules	Jaesung Park
101	Functionalized Graphene Ultra and Nanofiltration Membranes for Groundwater Remediation	Mitil M Koli
102	Electroactive Thin-film Composite Membrane with Enhanced Anti-Organic fouling and Cleaning Properties	Rupam Nandan
104	Interfacial transport, a versatile and facile thin film preparation method for supported liquid membranes	Daan Van Havere
105	Optimization of Fouling Resistant Polyelectrolyte Coacervate Membranes via Aqueous Phase Separation	Shao-Hsiang Hung
106	Interfacially polymerized poly(epoxy ether)-POSS membranes for membrane-based carbon capture	Daan Van Havere
107	Scalable Fabrication of Antifouling Graphite-based Electrically Conductive Membranes for Water Treatment	Wei Zhang
109	Polymer blending to overcome permeability/selectivity tradeoff in polybenzimidazole for H2/CO2 separation	Narjes Esmaeili
110	Understanding Polyfluoroalkyl Substance Selectivity in Anion Exchange Membrane Systems	Sam S Thompson

115	Surface Modification of Nanofiltration Membranes for Selective Nutrient Recovery	Km Prottoy Shariar Piash
116	Omniphobic Interfacial Heating Membranes with Robust Antiwetting Performance and Superior Thermal Efficiency in Membrane Distillation	Guangyu Zhu
117	Towards the Synthesis of Mixed Matrix Membranes Using Vapor Phase Infiltration	Seancarlos Gonzalez
119	Scalable Fabrication of Graphite-based Antifouling Electrically Conductive Membranes for Water Treatment	Wei Zhang
120	Metal-organic frameworks/polymer mixed matrix membranes for CO2 separation in Li-air batteries	Constantin Puscalau
121	Developments in Diffusive, Scale-able, and Flexible Graphene Membrane Electrodes	Caleb Song
122	Charged biosponge polymers for capturing toxic chemotherapy drugs to minimize chemotherapy	Hee Jeung Oh
123	Thermomechanical Bonding Between Polypropylene and Polyethersulfone Membranes	Rajan Jain
125	Acoustic microstreaming bubble-trapping-structures with chemically pinned bubble oscillations for continuous membrane fouling mitigation	Kieran R Fung
126	Improving Blowout Pressure in Supported Ionic Liquid Membranes for Light Paraffin Fractionation	Justin J Rosenthal
127	Using Isoporous Supports to Improve Supported Ionic Liquid Membrane Performance for Light Paraffin Fractionation	Justin J Rosenthal
128	Random Poly(1,3-dioxolane)-based Terpolymers for CO2 Separations	Justin J Rosenthal
129	High Recovery Desalination of High Mineral Scaling Source Water via Integrated RO-NF Concentrator, Concentrate Desupersaturation and Second Stage RO-NF Desalting.	Yoram Cohen
130	An all-polyamide organic solvent nanofiltration membrane	Kamalesh K Sirkar
131	High-Throughput Experimentation for High-Pressure Reverse- Osmosis Membranes	Hongchen Wang
132	Preparation of lithium-ion selective mixed matrix membrane for lithium recovery from real brine solution via diffusion dialysis process	Sandip Pal
133	Technoeconomic Evaluation of Wellhead Membrane-Based Distributed Water Desalination and Purification Systems	Yoram Cohen
134	Evaluation of Commercial Nanofiltration and Reverse Osmosis Membrane Filtration to Remove PFASs: Effects of Transmembrane Pressures, Water Matrices such as Surfactants, and Ion Valency and Temperatures	Guangyu Zhu
135	Copolymer blending for hydrophilization of gutter layers in thin film composite gas separation membranes	Arjun DeJesus

136	Development of Machine Learning Models of Intermittent Operation of Multiple RO Systems based on Transfer AdaBoost and Adaptive Broad Learning Techniques	Yoram Cohen
137	Thin Cation Exchange Membranes with Superior Ion Transport using Thiol-ene click polymerization	Claudio Adrian Ruiz Torres
138	Performance of a low-pressure pilot-scale off-grid nanofiltration system	Katelynn M Carroll
139	Enhanced CO2 Separation Using Polymeric Membranes with Encapsulated Ionic Liquid	Eyad Qasem
140	Fabrication of polymer brush grafted anti-biofouling ultra- filtration membrane using atom transfer radical polymerization	Kritika Jashrapuria
141	Taxonomic Method for Characterization of Microbial Community in Full-Scale Reverse Osmosis Facilitates	Ruizhe Xu
142	Sulfonic group Functionalized Graphene Oxide Thin-Film Composite Nanofiltration Membranes for Improved Pharmaceuticals Removal: Effect of pH and simulated wastewater matrix	Rashmi Ranjan
143	Carbon Membranes derived from UV-irradiated Polyimides with Enhanced Separation Performance and Aging Resistance	Jaesung Park
144	Preparation of CO2-Selective Polydimethylsiloxane Mixed Matrix Membranes	Josef Schneider
146	Molecular Engineering of Free volume in Membranes for Stationary Energy Storage	Toby Wong
148	An alternative application of 2D carbon-based membranes for efficient air separation and H2 purification from gas mixtures	Dániel Gardenö
150	Tannic acid-coated hollow fiber for dehydration: From material to membrane and module	Lakshmeesha Upadhyaya
151 153	Valorization of clove oil waste residue by membrane filtration CO2 selective membranes for decarbonising maritime industry	Chavdar Petrov Chilev Marius Sandru
154	Exploring the energy of molecular partition into polyamide membranes using quartz crystal microbalance	oren ben porat
155	Effect of polymer molecular weight on the long-term process stability of crosslinked polybenzimidazole (PBI) membranes	Adam Oxley
157	Thin Film Composite Ion Exchange Membranes by Electrospray	Yasmin Teixeira Bimbatti
160	Catalytic nanoparticle functionalized commercial membranes for hydrogenation of PFAAs	Subrajit Bosu
161	A Fractal Analysis Based Metrology to Quantify Porous Structure of Membranes	Riccardo Lovison
162	Targeted Separation Scheme of Polyurethane Depolymerization Products	Taysha B Telenar
163	Scale-up of perfluoro(butenyl vinyl ether) (PBVE) and perfluoro(2,2-dimethyl-1,3-dioxole) (PDD) copolymers for the separation of R-410A	Abby N Harders

164	Thin Film Composite Membranes from Polymers of Intrinsic Microporosity for CO2 Separation	Sunshine Iguodala
166	Development of Resilient Cellulosic Membrane for Sustainable Recovery of Hydrophobic Deep Eutectic Solvent in Liquid-Liquid Extraction of Fermentation Products	Odianosen I Ewah
167	Effect of solution ions on the charge and selectivity of nanofiltration membranes	Liat Birnhack
176	Hydrophobic polyamide nanofilms provide rapid transport for crude oil separation	Zhiwei Jiang
177	Supported liquid membrane contactor for efficient cesium extraction using crown either ionic liquid	Ranil Wickramasinghe
178	Direct Membrane Osmometry for Rapid Osmotic Pressure Measurements at High Molality	Mi Zhang
179	Designing Spiral Wound Modules for Counter-current Fluid Contacting	Hamed Rahnema
180	Green Solvents for Upcycling Waste PVC into Ultrafiltration Membranes for Water Treatment	ATTA UR RAZZAQ
181	Polymer evolution and fabrication of PVDF membranes for contaminant removal from water	Rachel Kaplan
182	Protocol for purification of circular RNA from a self-splicing reaction by ultrafiltration	Scott Husson
183	Polyamide Thin-film Composite Membranes for Gas Separations	Salman Ahmadipouya
184	Real-Time Induced Magnetic Vibrations for Enhanced Fouling Mitigation	Jasneet K Pala
185	Upcycled PVC Support Layer from Waste PVC Pipe for Thin Film Composite Nanofiltration Membranes	ATTA UR RAZZAQ
186	Visualization of Electrospray Technique for Membrane Manufacturing	Usama Javed J Sheikh
187	MORPHOLOGY AND CHEMISTRY CONTROL OF THIN FILM COMPOSITE MEMBRANES VIA ELECTROSPRAY 3D PRINTING	Mert Can Hacifazlioglu
188	Scaled Manufacturing of Supported Loose-NF Membranes with Eco-Friendly Solvents for Water Treatment Applications	David Lu
189	Patterned anion exchange membrane for improved performance of glucose fuel cells	Thomas A DosSantos DiSorbo
190	Innovation Opportunities for Membrane Spiral Design and Construction in Dairy Processing	Bing Liu
191	Mixed binary alkali halide salt transport in PEGDA	Aubrey Quigley
192	Influence of pH, Ionic Strength, and Operational Parameters on Capture Mechanisms in Nanoparticle Filtration	Lauren Tice
193	Catalytic Membrane Reactor Enabled by H2-Selective Carbon Molecular Sieve Membrane for Blue Hydrogen Production	Kai Chen
194	Ion-ion Separations in Biomimetic Water Channels	Tyler J Duncan

195	Role of salt additives in tuning the structure of β -cyclodextrin- based membranes	Jinting Hu
196	Incorporation of Gutter Layers in Reverse Osmosis and Nanofiltration Thin Film Composite Membranes	Martina Jagielski
197	Structure-property relationships in intercalated graphene oxide nanofiltration membranes for enhanced separation of salts and organics from aqueous streams	Muskan Sonker
198	Reverse Osmosis Desalination Membrane Performance Restoration with Periodic Permeate Flushing	Yoram Cohen
199	Tuning ionic selectivity in nanoporous graphene membranes using atomic layer deposition and polyelectrolyte assembly	Simar K Mattewal
201	Scalable Fabrication of Highly Permselective Contorted Polyamide Membranes with Increased Free Volume for Water Desalination	Parisa Taheri
202	Strengthening Isoporous Polymer Membranes through Chain Entanglements	Adam N Mann
203	Computer vision-based measurement of pure- and mixed-gas swelling in polymer membranes exhibiting configurational free volume	Michele Galizia
204	Impact of feedwater composition on the removal of short, ultrashort, and neutral PFAS in nanofiltration	Yukai Tomsovic
205	Sulfonated Polyamide Thin Film Composite Membranes for Electrodialysis	Deniz Ipekci
207	Ionic liquid membrane for selective removal of nanoplastics from water: Investigating the interfacial interactions between polystyrene nanoplastics and dissolved organic matters	Ashish Srivastava
208	Maximizing the Wetting Resistance of Fluorine-free Omniphobic Membranes for Hypersaline Wastewater Desalination	Yinchuan Yang
209	Designing the fluorinated superfine-activated carbon adsorptive membrane for selective removal of long- and short-chain PFAS	Medha Kasula
212	Gas Permeation and Separation Characteristics of Microporous TpHz COF Membranes Synthesized by Substrate-Assisted Interfacial Polymerization	Jose E Lopez-Cazares
214	Greener TEAMs: Tethered Electrolyte Active-Layer Membranes Produced by Surface-Initiated Free Radical Polymerization	Elnur Jabiyev
215	IgG-BSA Separation and Purification by Internally Staged Ultrafiltration	Kamalesh K Sirkar
216	Performance and Environmental Evaluation of Biochar-based Membranes Synthesized from Various Petroleum- and Bio-derived Solvents	Abelline K Fionah
217	Thin Film Nanocomposite Membranes Embedded with ZIF-67 for Desalination and Boron Removal	Suer Kurklu Kocaoglu

219	Elucidating the Structure-Property-Performance Relationship of Incorporating Waste Polymethyl Methacrylate in Polyvinylidene Fluoride Membrane Fabrication	Joseph T Danner
220	Long-term Operation of Pilot-scale Membrane Bioreactor – Membrane Distillation for Potable Water Reuse	Luke Presson
222	In-Situ Synthesis of ZIF-L MOF on UF Membranes for Efficient Microplastics and Dyes Removal	Himangshu Mondal
225	Capturing Trends in Selectivity during Li/Mg Separation: An Analytical Model for Mixed Salt Transport Across Charged Membranes	Rui Chen
226	Antimicrobial nanocellulose-modified microfiltration membranes for pathogen removal and fouling control.	Ji Qin
228	Could tuning the interlayer spacing of MXene helps to generate stable membranes for oil/water emulsion separation?	Hassan Younas
229	Unlocking the power of a gutter layer: A new frontier in dye- desalination using amine-crosslinked nanoporous graphene oxide (aHGO) platform.	Ameya Tandel
231	Development of a high-performance 30nm NIPS PTFE membrane	Karl Ashkar
233	Designing membranes using bottlebrush poly(1,3-dioxolane) acetate for CO2 capture	Fathy Attia
234	The influence of additives on polystyrene membranes created by temperature-induced phase separation	Sulaiman Dhameri
235	XpressKleen 1 nm expanded PTFE membrane for harsh chemical filtration	Zhefei Li
238	Enabling high-selectivity carbon molecular sieve hollow fiber membranes via precursor selective layer engineering	Brian Leonard
241	Lithium Selective Artificial Ion Channels for Lithium Separation	Harekrushna Behera
242	Humid CO2 sorption in moisture swing materials for direct air capture	Horacio Lopez Marques
243	Using high-throughput membrane characterization to elucidate how nuanced changes in membrane chemistry affects solute transport	Laurianne Lair
245	Real-Time, Non-Destructive Monitoring of Supported Liquid Membranes for Biochemical Recovery Using Electrochemical Impedance Spectroscopy	Jongho Lee
247	Polymer membrane morphologies as explored by laser scanning confocal microscopy (LSCM) during thermally induced phase separation (TIPS)	Charaf Eddine Merzougui
248	2,3-Butanediol Separations using Membrane Assisted Liquid- Liquid Extraction (MALLE)	Shailesh Singh Dangwal
250	Simultaneous Deposition of Modified Bilayer Membranes using a Roll-to-Roll Manufacturing Process	Minwoo Jung

251	Modeling Hybrid Systems for Industrial Carbon Capture	Carol Jerotich
252	Low-cost and scalable automated flat-sheet membrane casting: an open-source, advanced manufacturing approach	Charles-François de Lannoy
255	Separation of siloxane from silicone fluid mixture using polymeric membrane	Hammed A Balogun
256	Evidence for solution-diffusion in pressure-induced transport of solvent through dense polymer membranes	Kevin Reimund
257	CFD modeling of high-flux plate-and-frame membrane modules for industrial carbon capture	Grigorios Panagakos
259	High-throughput permeability cell for mixed solute experiments	Aubrey Quigley
260	Dimensional analysis for scaling-up membrane modules	Grigorios Panagakos
261	20,000 GPU CO2 Permeance Gutter Layer for Thin Film Composite Gas Separation Membranes	Michael J McGrath
263	Optimizing Carbon Capture Plants with Hollow Fiber Membrane Technology: Integration of CFD Rigorous Models through Trust- Region Methods	Grigorios Panagakos
263	Optimizing Carbon Capture Plants with Hollow Fiber Membrane Technology: Integration of CFD Rigorous Models through Trust- Region Methods	Grigorios Panagakos
264	Demonstration of a Real-Time Maximum Power Point Tracker for Salt Gradient Osmotic Power Systems	saber khanmohammadi
266	Removal of PFOS in the Presence of Humic Acid Using Activated Carbon-Functionalized Adsorptive Thin-film Nanocomposite Membranes	Isabella Le
267	Enhancing the performance of green solvent synthesized ABS membranes using co-solvents	Sulaiman Dhameri
268	Supported Liquid Membrane Stabilization with an Ultra-Thin Charged Film for Lithium-Ion Battery Recycling	Jiahao Zhu
269	Tunable Conductivity-Permselectivity and Ion Separation Performance of Sol-Gel Ion Selective Membranes for Environmental Applications	Yuxuan Huang
271	A Membrane Contactor Enabling Energy-Efficient CO2 Capture from Point Sources with Physical Solvent	Nicholas Gregorich
273	Intensification of organic compounds crystallization using membrane technology	Sara Chergaoui
276	Zr-based MOF-NF-Membrane for Selective Removal of Selenium from Produced water	Sweta A Modak
277	Anti- swelling Characteristics Enhanced via Self-Cross-Linking in MXene-Interlaced Graphene Oxide Membranes	Saurabh Kr Tiwary
278	Membrane-Based CO2 Removal From Desalination Plants	Marina Hildebrandt
280	Advanced functionalized polyether ether ketone/polysulfone membranes with 2D nanomaterials for enhanced water treatment performance	Muhammad Usman Yousaf

281	Performance of Commercial Bipolar Membranes for Ocean Alkalinity Enhancement Application	Bassel A. Abdelkader
283	Mechanisms of Flux Decline in Crossflow Ultrafiltration of Whey Protein: Comparing Different Models to Experimental Data	Burcu Ozdemir
284	Electrifying membrane distillations: Localized Joule heating of laser-induced graphene membranes	Md Hasib Al Mahbub
286	Development of Ultra-thin PDMS Membranes via Polyamide & Thiol-ene Interfacial Polymerization for CO2/N2 Separations	Dean F Stipanic
287	Development of a modular device for evaluating hollow fiber membrane permeance	Timothy Warner
288	Do we need an alternative to polyvinylidene fluoride-based membranes and where will it come from?	Minhao Xiao
289	From surface wetting to internal wetting: understanding wetting front progression in membrane distillation	Shounak G Joshi
290	Catalytic Membranes Based on rGO for Micropollutant Treatment Enabled by Peracetic Acid	Erda Deng
291	Understanding the dopant effects on the selective transport of cations in conductive polymers	Meng Shen
293	Elucidation of the Effect of Hydrophobic/Hydrophilic Domains in Polyamide Thin-Film Composite Reverse Osmosis Membranes	Mohammad Mehdi Pour
294	Chemistry-structure-performance relationships of polyamide membranes for lithium recovery	Rebecca Lee
296	Polymers of intrinsic microporosity-based membranes: Promising materials for membrane distillation	Mahmoud Abdulhamid
297	CO2/C2H2 Transport in SSZ-13 Zeolite Crystals and Membranes, and the Implication on Zeolite Membrane Microstructure	Shaowei Yang
299	Membrane heterogeneity alters our interpretation of effective energy barriers to transport	Nathanael S Schwindt
301	Freezing desalination using serpentine pipe: How freezing time and washing technique improve salt rejection and production rate	Albert Kim
302	Pall Filtration is Enabling the Energy Transition	Amanda Kite
303	Assessing stability and toxicity of the polymeric membranes fabricated with petroleum- and bio-derived solvents.	Lucca Madeo Cortarelli
304	CO2 stripping from rich amines solutions using catalytic- membrane hybrid system	Muhammad Waseem
307	Adjustable microstructure design of a polyphthalonitrile precursor and the derived novel carbon molecular sieve membrane for gas separation	Chun-Po Hu
310	Development of a high-performance ionene-polyimide membrane and study of their properties	Alain Tundidor
313	Enhancing Electrodialysis with Thiol-ene Polymer Network-Based Anion-Exchange Membranes	Sara Abu-Obaid

314	Fabrication of Polysulfone/Sulfonated-polyether-ether-ketone Membranes for Removal of Organic Contaminants from Water	Nerissa Kiprotich
315	Low-concentration carbon dioxide capture using MEEP-based membranes	Birendra Adhikari
316	Carbon Dioxide Selective Membranes Formed from Mechanically Stabilized Phosphazene Polymer	Christopher Orme
317	Computational insights from the polymer/MOF interface in Mixed-Matrix Membranes	Moein Hajian Zaker Damghan
318	Experimental and Modeling Results for the Rejection of Ultrashort Per-and Polyfluoroalkyl Substances	Aron Griffin
319	Compaction of high-pressure water treatment membranes: real- time quantification and support layer contribution	Weijian Ding
320	"Synthesis and Characterization of Semi-Rigid Poly(imide)s containing biphenyl and Tröger's base units for Gas Permeation Applications"	María Victoria Velázquez
321	Simplified Synthesis Methods for Membrane-Protein Nanosheets and Biomimetic Membranes	Ronald J Vogler
322	Salt Transport in Low-Salt-Rejection RO Membranes using the Solution-Friction Model	Rayan Alghanayem
324	What Can We Learn from Ultrasonic Testing During Vapor Sorption?	Gennady Gor
327	Electrospun Fibrous Membranes for Bioreactor Harvesting of Viral Vectors	Xianghong Qian
328	"Synthesis, characterization and gas transport properties of a new 6FDA based semi-rigid poly(imide) containing 9,9'-spirobi[fluorene] units"	Yennier Cruz Bermúdez
329	Permeation number - A dimensionless group for membrane gas separation design	Giuseppe Barbieri
330	The Effects of Pressure and Process Interruption on The Location of Virus Particles Captured during Virus Filtration	Xianghong Qian
332	Innovating Membranes for Carbon Capture: From Material Synthesis to Process Prototype	Yang Han
333	Enhancing Water Evaporation in Membrane Processes Using Hydrogel Coatings	Omar Laris
334	Advancing sustainable membrane fabrication by investigating the effect of biodegradable and non-biodegradable solvents on polylactic acid (PLA) membranes.	Ebuka Ogbuoji
335	Via Separations: Membrane Separations for Industrial Decarbonization	Stephen Frayne
336	Synthesis, characterization and study of the gas transport properties of a new semi-rigid poly(imide) for its application in gas separation membranes	Ary Rodríguez

337	Fabrication of asymmetric nanofiltration membranes prepared from sulfonated poly(arylene ether sulfone) for monovalent- divalent ion separation	Nurshaun Sreedhar
339	Opportunities for fouling mitigation in pressure-driven distillation using direct ozonation	Hannah Cairney
340	The Effect of Crosslinker Concentration on Competitive Release Kinetics and Physical Characteristics of Thermo-Responsive, Lignin-Based Soft Composites	Missoury Wolff
343	Hydrogen- and acetylene-stable silver ion facilitated transport membranes: the effect of salt content on fractional free volume and gas permeability	Matthew N Davenport
344	NEW CLASS OF IMIDAZOLIUM-BASED IONENES FOR GAS SEPARATION MEMBRANES	Sudhir Ravula
348	Insights into methods of determining selectivity of porous ultrafiltration membranes	Suzana Ivandic