

Tongwen Xu

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.

483
papers

20,737
citations

66
h-index

117
g-index

499
ext. papers

23,891
ext. citations

8.4
avg, IF

7.27
L-index

#	Paper	IF	Citations
483	Hydrogen bonding assisted OH ⁻ transport under low humidity for rapid start-up in AEMFCs. <i>Journal of Membrane Science</i> , 2022 , 647, 120303	9.6	2
482	Bipolar membrane-assisted reverse electrodialysis for high power density energy conversion via acid-base neutralization. <i>Journal of Membrane Science</i> , 2022 , 647, 120288	9.6	3
481	A green and economical method for preparing lithium hydroxide from lithium phosphate. <i>Separation and Purification Technology</i> , 2022 , 280, 119909	8.3	1
480	Novel Poly(ester amide) Membranes with Tunable Crosslinked Structures for Nanofiltration.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	2
479	Development of a High-Performance Proton Exchange Membrane: From Structural Optimization to Quantity Production. <i>Industrial & Engineering Chemistry Research</i> , 2022 , 61, 4329-4338	3.9	0
478	Ion-plus salinity gradient flow Battery. <i>Chemical Engineering Science</i> , 2022 , 253, 117580	4.4	0
477	Ion exchange membranes for acid recovery: Diffusion Dialysis (DD) or Selective Electrodialysis (SED)?. <i>Desalination</i> , 2022 , 531, 115690	10.3	3
476	Multistage-batch bipolar membrane electrodialysis for base production from high-salinity wastewater. <i>Frontiers of Chemical Science and Engineering</i> , 2022 , 16, 764-773	4.5	2
475	Host-guest interaction induced ion channels for accelerated OH ⁻ transport in anion exchange membranes. <i>Journal of Membrane Science</i> , 2022 , 655, 120580	9.6	1
474	High-performance bipolar membrane for electrochemical water electrolysis. <i>Journal of Membrane Science</i> , 2022 , 656, 120660	9.6	1
473	Acid recovery from molybdenum metallurgical wastewater via selective electrodialysis and nanofiltration. <i>Separation and Purification Technology</i> , 2022 , 295, 121318	8.3	0
472	Ion exchange membrane related processes towards carbon capture, utilization and storage: Current trends and perspectives. <i>Separation and Purification Technology</i> , 2022 , 296, 121390	8.3	2
471	Intelligent graphene oxide membranes with pH tunable channels for water treatment. <i>Chemical Engineering Journal</i> , 2021 , 133462	14.7	2
470	Cationic covalent organic framework membranes for efficient dye/salt separation. <i>Journal of Membrane Science</i> , 2021 , 644, 120118	9.6	0
469	Degradation of electrochemical active compounds in aqueous organic redox flow batteries. <i>Current Opinion in Electrochemistry</i> , 2021 , 32, 100895	7.2	2
468	3D-Zipped Interface: In Situ Covalent-Locking for High Performance of Anion Exchange Membrane Fuel Cells. <i>Advanced Science</i> , 2021 , 8, e2102637	13.6	5
467	2D Heterostructured Nanofluidic Channels for Enhanced Desalination Performance of Graphene Oxide Membranes. <i>ACS Nano</i> , 2021 , 15, 7586-7595	16.7	25

466	A Review of Nanostructured Ion-Exchange Membranes. <i>Advanced Materials Technologies</i> , 2021 , 6, 2001178	7.8	7
465	Organic electrolytes for aqueous organic flow batteries. <i>Materials Today Energy</i> , 2021 , 20, 100634	7	10
464	Biselective microporous Tröger's base membrane for effective ion separation. <i>Journal of Membrane Science</i> , 2021 , 627, 119246	9.6	6
463	Polyvinyl alcohol-based monovalent anion selective membranes with excellent permselectivity in electrodialysis. <i>Journal of Membrane Science</i> , 2021 , 620, 118889	9.6	3
462	Zwitterion membranes for selective cation separation via electrodialysis. <i>Separation and Purification Technology</i> , 2021 , 254, 117619	8.3	13
461	Highly conductive and vanadium sieving Microporous Tröger's Base Membranes for vanadium redox flow battery. <i>Journal of Membrane Science</i> , 2021 , 620, 118832	9.6	20
460	An alkaline stable anion exchange membrane for electro-desalination. <i>Desalination</i> , 2021 , 497, 114779	10.3	7
459	A sustainable valorization of neopentyl glycol salt waste containing sodium formate via bipolar membrane electrodialysis. <i>Separation and Purification Technology</i> , 2021 , 254, 117563	8.3	12
458	Designer Ferrocene Catholyte for Aqueous Organic Flow Batteries. <i>ChemSusChem</i> , 2021 , 14, 1295-1301	8.3	9
457	Self-aggregating cationic-chains enable alkaline stable ion-conducting channels for anion-exchange membrane fuel cells. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 327-337	13	34
456	Functioning Water-Insoluble Ferrocenes for Aqueous Organic Flow Battery via Host-Guest Inclusion. <i>ChemSusChem</i> , 2021 , 14, 745-752	8.3	11
455	Introducing a new generation of anion conducting membrane using swelling induced fabrication of covalent methanol barrier layer. <i>Journal of Membrane Science</i> , 2021 , 620, 118840	9.6	2
454	Ion Exchange Membrane ABC Key Material for Upgrading Process Industries. <i>Chinese Journal of Chemistry</i> , 2021 , 39, 825-837	4.9	1
453	Transport Characteristics of CJMAED Homogeneous Anion Exchange Membranes in Sodium Chloride and Sodium Sulfate Solutions. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	3
452	Shielded goethite catalyst that enables fast water dissociation in bipolar membranes. <i>Nature Communications</i> , 2021 , 12, 9	17.4	11
451	Cation-dipole interaction that creates ordered ion channels in an anion exchange membrane for fast OH ⁻ conduction. <i>AIChE Journal</i> , 2021 , 67, e17133	3.6	10
450	Poly (5-aminoindole)-modified TiO ₂ NTs nanocomposites supported palladium as an anode catalyst for enhanced electrocatalytic oxidation of methanol. <i>Electrochimica Acta</i> , 2021 , 388, 138562	6.7	2
449	Flexible Bis-piperidinium Side Chains Construct Highly Conductive and Robust Anion-Exchange Membranes. <i>ACS Applied Energy Materials</i> , 2021 , 4, 9701-9711	6.1	4

448	Fast Bulky Anion Conduction Enabled by Free Shuttling Phosphonium Cations. <i>Research</i> , 2021 , 2021, 9762709	7.8	3
447	Anion exchange membranes with fast ion transport channels driven by cation-dipole interactions for alkaline fuel cells. <i>Journal of Membrane Science</i> , 2021 , 634, 119404	9.6	13
446	Eu-based analytes for high-voltage and long-lifetime aqueous flow batteries. <i>Journal of Energy Chemistry</i> , 2021 , 60, 368-375	12	1
445	Efficient Ion Sieving in Covalent Organic Framework Membranes with Sub-2-Nanometer Channels. <i>Advanced Materials</i> , 2021 , 33, e2104404	24	17
444	Spray-deposited thin-film composite MOFs membranes for dyes removal. <i>Journal of Membrane Science</i> , 2021 , 635, 119475	9.6	8
443	Production of lithium hydroxide by electrodialysis with bipolar membranes. <i>Separation and Purification Technology</i> , 2021 , 274, 119026	8.3	6
442	Exploring H-bonding interaction to enhance proton permeability of an acid-selective membrane. <i>Journal of Membrane Science</i> , 2021 , 637, 119650	9.6	5
441	In-situ grown polyaniline catalytic interfacial layer improves water dissociation in bipolar membranes. <i>Separation and Purification Technology</i> , 2021 , 275, 119167	8.3	3
440	Soluble polymeric metal-organic frameworks toward crystalline membranes for efficient cation separation. <i>Journal of Membrane Science</i> , 2021 , 639, 119757	9.6	0
439	Coupling room-temperature phosphorescence carbon dots onto active layer for highly efficient photodynamic antibacterial chemotherapy and enhanced membrane properties. <i>Journal of Membrane Science</i> , 2021 , 639, 119754	9.6	2
438	Physical and chemical synergistic strategy: A facile approach to fabricate monovalent ion permselective membranes. <i>Chemical Engineering Science</i> , 2021 , 245, 116873	4.4	5
437	Electrodialytic concentration of landfill leachate effluent: Lab- and pilot-scale test, and assessment. <i>Separation and Purification Technology</i> , 2021 , 276, 119311	8.3	5
436	Enhancing side chain swing ability by novel all-carbon twisted backbone for high performance anion exchange membrane at relatively low IEC level 2021 , 1, 100007		2
435	Beneficial Use of a Coordination Complex As the Junction Catalyst in a Bipolar Membrane. <i>ACS Applied Energy Materials</i> , 2020 , 3, 5765-5773	6.1	13
434	In-situ crosslinked AEMs with self-assembled nanostructure for acid recovery. <i>Separation and Purification Technology</i> , 2020 , 247, 116927	8.3	10
433	PVA-Based Mixed Matrix Membranes Comprising ZSM-5 for Cations Separation. <i>Membranes</i> , 2020 , 10,	3.8	10
432	Screening Viologen Derivatives for Neutral Aqueous Organic Redox Flow Batteries. <i>ChemSusChem</i> , 2020 , 13, 2245-2249	8.3	31
431	Sulfonated Microporous Polymer Membranes with Fast and Selective Ion Transport for Electrochemical Energy Conversion and Storage. <i>Angewandte Chemie</i> , 2020 , 132, 9651-9660	3.6	12

430	Sulfonated Microporous Polymer Membranes with Fast and Selective Ion Transport for Electrochemical Energy Conversion and Storage. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 9564-9573	16.4	58
429	Ammonia capture from wastewater with a high ammonia nitrogen concentration by water splitting and hollow fiber extraction. <i>Chemical Engineering Science</i> , 2020 , 227, 115934	4.4	14
428	In-Situ Combination of Bipolar Membrane Electrodialysis with Monovalent Selective Anion-Exchange Membrane for the Valorization of Mixed Salts into Relatively High-Purity Monoprotic and Diprotic Acids. <i>Membranes</i> , 2020 , 10,	3.8	5
427	Engineering Leaf-Like UiO-66-SOH Membranes for Selective Transport of Cations. <i>Nano-Micro Letters</i> , 2020 , 12, 51	19.5	22
426	Ultrathin lamellar MoS ₂ membranes for organic solvent nanofiltration. <i>Journal of Membrane Science</i> , 2020 , 602, 117963	9.6	23
425	A solvent-assisted ligand exchange approach enables metal-organic frameworks with diverse and complex architectures. <i>Nature Communications</i> , 2020 , 11, 927	17.4	44
424	Purification of Methylsulfonylmethane from Mixtures Containing Salt by Conventional Electrodialysis. <i>Membranes</i> , 2020 , 10,	3.8	6
423	A novel mixed matrix membrane framework for ultrafast cation sieving. <i>Chemical Communications</i> , 2020 , 56, 6543-6546	5.8	2
422	Transforming salty whey into cleaning chemicals using electrodialysis with bipolar membranes. <i>Desalination</i> , 2020 , 492, 114598	10.3	14
421	Covalent bonding-triggered pore-filled membranes for alkaline fuel cells. <i>Journal of Membrane Science</i> , 2020 , 597, 117776	9.6	3
420	Ti-exchanged UiO-66-NH ₂ containing polyamide membranes with remarkable cation permselectivity. <i>Journal of Membrane Science</i> , 2020 , 615, 118608	9.6	20
419	Hydrophilic Microporous Polymer Membranes: Synthesis and Applications. <i>ChemPlusChem</i> , 2020 , 85, 1893-1904	2.8	8
418	Anion permselective membranes with chemically-bound carboxylic polymer layer for fast anion separation. <i>Journal of Membrane Science</i> , 2020 , 614, 118553	9.6	10
417	Bipolar membrane electrodialysis for cleaner production of N-methylated glycine derivative amino acids. <i>AIChE Journal</i> , 2020 , 66, e17023	3.6	8
416	Facile synthesis of poly(arylene ether ketone)s with pendent oxyhexyltrimethylammonium groups for Robust anion exchange membranes. <i>Polymer</i> , 2020 , 210, 123035	3.9	4
415	A Novel Anion Exchange Membrane for Bisulfite Anion Separation by Grafting a Quaternized Moiety through BPPO via Thermal-Induced Phase Separation. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	2
414	Transport and Electrochemical Characteristics of CJMCED Homogeneous Cation Exchange Membranes in Sodium Chloride, Calcium Chloride, and Sodium Sulfate Solutions. <i>Membranes</i> , 2020 , 10,	3.8	2
413	Preparation of click-driven cross-linked anion exchange membranes with low water uptake. <i>Particuology</i> , 2020 , 48, 65-73	2.8	6

412	Electro-nanofiltration membranes with positively charged polyamide layer for cations separation. <i>Journal of Membrane Science</i> , 2020 , 594, 117453	9.6	30
411	Improving fuel cell performance of an anion exchange membrane by terminal pending bis-cations on a flexible side chain. <i>Journal of Membrane Science</i> , 2020 , 595, 117483	9.6	34
410	Self-organized nanostructured anion exchange membranes for acid recovery. <i>Chemical Engineering Journal</i> , 2020 , 382, 122838	14.7	27
409	Novel electro dialysis membranes with hydrophobic alkyl spacers and zwitterion structure enable high monovalent/divalent cation selectivity. <i>Chemical Engineering Journal</i> , 2020 , 383, 123171	14.7	26
408	Design of an alternative approach for synergistic removal of multiple contaminants: Water splitting coagulation. <i>Chemical Engineering Journal</i> , 2020 , 380, 122531	14.7	8
407	Endowing g-C3N4 Membranes with Superior Permeability and Stability by Using Acid Spacers. <i>Angewandte Chemie</i> , 2019 , 131, 16615-16620	3.6	7
406	Ionomer Cross-Linking Immobilization of Catalyst Nanoparticles for High Performance Alkaline Membrane Fuel Cells. <i>Chemistry of Materials</i> , 2019 , 31, 7812-7820	9.6	34
405	Electro-Driven in Situ Construction of Functional Layer Using Amphoteric Molecule: The Role of Tryptophan in Ion Sieving. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 36626-36637	9.5	12
404	Hydrophobic Side Chains Impart Anion Exchange Membranes with High Monovalent/Divalent Anion Selectivity in Electrodialysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 4429-4442	8.3	37
403	Zwitterion structure membrane provides high monovalent/divalent cation electro dialysis selectivity: Investigating the effect of functional groups and operating parameters. <i>Journal of Membrane Science</i> , 2019 , 588, 117211	9.6	21
402	Comb-shaped anion exchange membrane with densely grafted short chains or loosely grafted long chains?. <i>Journal of Membrane Science</i> , 2019 , 585, 150-156	9.6	26
401	A Long-Lifetime All-Organic Aqueous Flow Battery Utilizing TMAP-TEMPO Radical. <i>CheM</i> , 2019 , 5, 1861-1870	18.70	94
400	Highly Cation Permselective Metal-Organic Framework Membranes with Leaf-Like Morphology. <i>ChemSusChem</i> , 2019 , 12, 2593-2597	8.3	27
399	Self-solidification ionic liquids as heterogeneous catalysts for biodiesel production. <i>Green Chemistry</i> , 2019 , 21, 3182-3189	10	21
398	Angioplasty mimetic stented ion transport channels construct durable high-performance membranes. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 10030-10040	13	10
397	Fouling deposition as an effective approach for preparing monovalent selective membranes. <i>Journal of Membrane Science</i> , 2019 , 580, 327-335	9.6	18
396	110th Anniversary: Unleashing the Full Potential of Quinones for High Performance Aqueous Organic Flow Battery. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 3994-3999	3.9	13
395	Self-healing anion exchange membrane for pH 7 redox flow batteries. <i>Chemical Engineering Science</i> , 2019 , 201, 167-174	4.4	14

394	Non-covalent cross-linking to boost the stability and permeability of graphene-oxide-based membranes. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 8085-8091	13	34
393	Evaluation of the ideal selectivity and the performance of electrodialysis by using TFC ion exchange membranes. <i>Journal of Membrane Science</i> , 2019 , 582, 236-245	9.6	25
392	Biomimetic Nanocones that Enable High Ion Permselectivity. <i>Angewandte Chemie</i> , 2019 , 131, 12776-12784	9.6	10
391	Biomimetic Nanocones that Enable High Ion Permselectivity. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 12646-12654	16.4	23
390	In-situ crosslinked SPPO/PVA composite membranes for alkali recovery via diffusion dialysis. <i>Journal of Membrane Science</i> , 2019 , 590, 117267	9.6	16
389	Water-Dissociation-Assisted Electrolysis for Hydrogen Production in a Salinity Power Cell. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 13023-13030	8.3	10
388	Endowing g-C N Membranes with Superior Permeability and Stability by Using Acid Spacers. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 16463-16468	16.4	48
387	SPPO-based cation exchange membranes with a positively charged layer for cation fractionation. <i>Desalination</i> , 2019 , 472, 114145	10.3	12
386	Polymer Electrolytes for LIBs Based on Perfluorinated Sulfocationic Nepem-117 Membrane and Aprotic Solvents. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 10217-10223	3.4	7
385	Towards the gemini cation anion exchange membranes by nucleophilic substitution reaction. <i>Science China Materials</i> , 2019 , 62, 973-981	7.1	17
384	Cation exchange membrane integrated with cationic and anionic layers for selective ion separation via electrodialysis. <i>Desalination</i> , 2019 , 458, 25-33	10.3	25
383	Guiding the self-assembly of hyperbranched anion exchange membranes utilized in alkaline fuel cells. <i>Journal of Membrane Science</i> , 2019 , 573, 595-601	9.6	26
382	Electrodialysis-Based Separation Technologies in the Food Industry 2019 , 349-381		2
381	Anion-immobilized polymer electrolyte achieved by cationic metal-organic framework filler for dendrite-free solid-state batteries. <i>Energy Storage Materials</i> , 2019 , 18, 59-67	19.4	135
380	Multistage-batch electrodialysis to concentrate high-salinity solutions: Process optimisation, water transport, and energy consumption. <i>Journal of Membrane Science</i> , 2019 , 570-571, 245-257	9.6	42
379	High Performance Ion Exchange Membranes Prepared via Direct Polyacylation of Racemic and (S)-1,1'-Binaphthyl-Based Cationic/Anionic Monomers. <i>Macromolecular Materials and Engineering</i> , 2019 , 304, 1800547	3.9	1
378	Hyperbranched Polystyrene Copolymer Makes Superior Anion Exchange Membrane. <i>ACS Applied Polymer Materials</i> , 2019 , 1, 76-82	4.3	21
377	Mathematical modelling and experimental investigation of CO ₂ absorber recovery using an electro-acidification method. <i>Chemical Engineering Journal</i> , 2019 , 360, 654-664	14.7	10

- 376 Augmenting acid recovery from different systems by novel Q-DAN anion exchange membranes via diffusion dialysis. *Separation and Purification Technology*, **2018**, 201, 336-345 8.3 24
- 375 Tetrazole tethered polymers for alkaline anion exchange membranes. *Frontiers of Chemical Science and Engineering*, **2018**, 12, 306-310 4.5 9
- 374 Anion exchange membranes with branched ionic clusters for fuel cells. *Journal of Materials Chemistry A*, **2018**, 6, 5993-5998 13 53
- 373 Dual hydrophobic grafted chains facilitating quaternary ammonium aggregations of hydroxide conducting polymers: a theoretical and experimental investigation. *Journal of Materials Chemistry A*, **2018**, 6, 5714-5723 13 24
- 372 Asymmetric porous monovalent cation perm-selective membranes with an ultrathin polyamide selective layer for cations separation. *Journal of Membrane Science*, **2018**, 557, 49-57 9.6 32
- 371 Waste Conversion and Resource Recovery from Wastewater by Ion Exchange Membranes: State-of-the-Art and Perspective. *Industrial & Engineering Chemistry Research*, **2018**, 57, 6025-6039 3.9 49
- 370 Anion exchange membranes with clusters of alkyl ammonium group for mitigating water swelling but not ionic conductivity. *Journal of Membrane Science*, **2018**, 550, 101-109 9.6 40
- 369 Complexation Electrodialysis as a general method to simultaneously treat wastewaters with metal and organic matter. *Chemical Engineering Journal*, **2018**, 348, 952-959 14.7 31
- 368 Achieving high anion conductivity by densely grafting of ionic strings. *Journal of Membrane Science*, **2018**, 559, 35-41 9.6 29
- 367 Anion exchange membrane crosslinked in the easiest way stands out for fuel cells. *Journal of Power Sources*, **2018**, 390, 234-241 8.9 57
- 366 Recyclable cross-linked anion exchange membrane for alkaline fuel cell application. *Journal of Power Sources*, **2018**, 375, 404-411 8.9 35
- 365 Perylene-based sulfonated aliphatic polyimides for fuel cell applications: Performance enhancement by stacking of polymer chains. *Journal of Membrane Science*, **2018**, 547, 43-50 9.6 28
- 364 A novel strategy to construct highly conductive and stabilized anionic channels by fluorocarbon grafted polymers. *Journal of Membrane Science*, **2018**, 549, 631-637 9.6 31
- 363 Electrodialytic concentrating lithium salt from primary resource. *Desalination*, **2018**, 425, 30-36 10.3 32
- 362 Removal of heat stable salts (HSS) from spent alkanolamine wastewater using electrodialysis. *Journal of Industrial and Engineering Chemistry*, **2018**, 57, 356-362 6.3 26
- 361 Highly conductive and stabilized side-chain-type anion exchange membranes: ideal alternatives for alkaline fuel cell applications. *Journal of Materials Chemistry A*, **2018**, 6, 17101-17110 13 43
- 360 Ammonia capture by water splitting and hollow fiber extraction. *Chemical Engineering Science*, **2018**, 192, 211-217 4.4 13
- 359 Ion exchange membranes from poly(2,6-dimethyl-1,4-phenylene oxide) and related applications. *Science China Chemistry*, **2018**, 61, 1062-1087 7.9 12

358	Monovalent cations permselective membranes with zwitterionic side chains. <i>Journal of Membrane Science</i> , 2018 , 563, 320-325	9.6	32
357	Thermally triggered polyrotaxane translational motion helps proton transfer. <i>Nature Communications</i> , 2018 , 9, 2297	17.4	15
356	Role of ionomer in membrane electrode assembly for proton exchange membrane fuel cells. <i>Scientia Sinica Chimica</i> , 2018 , 48, 1040-1057	1.6	3
355	High performance anion exchange membrane with proton transport pathways for diffusion dialysis. <i>Separation and Purification Technology</i> , 2018 , 193, 11-20	8.3	35
354	A benzyltetramethylimidazolium-based membrane with exceptional alkaline stability in fuel cells: role of its structure in alkaline stability. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 527-534	13	80
353	A low-pressure GO nanofiltration membrane crosslinked via ethylenediamine. <i>Journal of Membrane Science</i> , 2018 , 548, 363-371	9.6	47
352	Beneficial use of rotatable-spacer side-chains in alkaline anion exchange membranes for fuel cells. <i>Energy and Environmental Science</i> , 2018 , 11, 3472-3479	35.4	119
351	Investigation of key process parameters in acid recovery for diffusion dialysis using novel (MDMH-QPPO) anion exchange membranes. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018 , 93, 405-413	5.3	14
350	Selectrodialysis with bipolar membrane for the reclamation of concentrated brine from RO plant. <i>Desalination</i> , 2018 , 442, 8-15	10.3	45
349	Batch Preparation of High Basicity Polyferric Sulfate by Hydroxide Substitution from Bipolar Membrane Electrodialysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 2292-2301	8.3	17
348	Nanofibrous composite membranes (NFCMs) for mono/divalent cations separation. <i>Journal of Membrane Science</i> , 2017 , 528, 243-250	9.6	38
347	Iron encapsulated in 3D N-doped carbon nanotube/porous carbon hybrid from waste biomass for enhanced oxidative activity. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 7679-7692	5.1	21
346	Development of novel PVA-QUDAP based anion exchange membranes for diffusion dialysis and theoretical analysis therein. <i>Separation and Purification Technology</i> , 2017 , 178, 269-278	8.3	28
345	A hierarchically structured PtCo nanoflakes@nanotube as an electrocatalyst for methanol oxidation. <i>Inorganic Chemistry Frontiers</i> , 2017 , 4, 845-849	6.8	5
344	Fabrication of cation exchange membrane from polyvinyl alcohol using lignin sulfonic acid: Applications in diffusion dialysis process for alkali recovery. <i>Separation Science and Technology</i> , 2017 , 52, 1106-1113	2.5	8
343	Preparation and performance evaluation of novel alkaline stable anion exchange membranes. <i>Journal of Power Sources</i> , 2017 , 355, 171-180	8.9	43
342	Crosslinked PVA-based hybrid membranes containing di-sulfonic acid groups for alkali recovery. <i>Separation and Purification Technology</i> , 2017 , 184, 1-11	8.3	11
341	Hierarchically structured porous anion exchange membranes containing zwitterionic pores for ion separation. <i>Journal of Membrane Science</i> , 2017 , 537, 32-41	9.6	21

- 340 Advanced charged porous membranes with ultrahigh selectivity and permeability for acid recovery. *Journal of Membrane Science*, **2017**, 536, 11-18 9.6 27
- 339 Integrating Diffusion Dialysis with Membrane Electrolysis for Recovering Sodium Hydroxide from Alkaline Sodium Metavanadate Solution. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 5382-5393 8.3 9
- 338 Click mediated high-performance anion exchange membranes with improved water uptake. *Journal of Materials Chemistry A*, **2017**, 5, 1022-1027 13 35
- 337 Preparation and characterization of click-driven N-vinylcarbazole-based anion exchange membranes with improved water uptake for fuel cells. *RSC Advances*, **2017**, 7, 29794-29805 3.7 14
- 336 Preparation of porous diffusion dialysis membranes by functionalization of polysulfone for acid recovery. *Journal of Membrane Science*, **2017**, 524, 557-564 9.6 38
- 335 Modeling of Potassium Sulfate Production from Potassium Chloride by Electrodialytic Ion Substitution. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 9076-9085 8.3 6
- 334 Storable hydrogen production by Reverse Electro-Electrodialysis (REED). *Journal of Membrane Science*, **2017**, 544, 397-405 9.6 24
- 333 Simultaneous CO₂ capture and amino acid production using bipolar membrane electrodialysis (BMED). *Journal of Membrane Science*, **2017**, 542, 264-271 9.6 18
- 332 Novel synthetic route to prepare doubly quaternized anion exchange membranes for diffusion dialysis application. *Separation and Purification Technology*, **2017**, 189, 204-212 8.3 14
- 331 A general route to the synthesis of layer-by-layer structured metal organic framework/graphene oxide hybrid films for high-performance supercapacitor electrodes. *Journal of Materials Chemistry A*, **2017**, 5, 16865-16872 13 36
- 330 Monovalent cation perm-selective membranes (MCPMs): New developments and perspectives. *Chinese Journal of Chemical Engineering*, **2017**, 25, 1606-1615 3.2 53
- 329 Preparation of bipolar membranes by electrospinning. *Materials Chemistry and Physics*, **2017**, 186, 484-491 14 29
- 328 Preparation of high-flux ultrafiltration membranes by blending strongly charged polymer. *Journal of Applied Polymer Science*, **2017**, 134, 2.9 4
- 327 A power free electrodialysis (PFED) for desalination. *Desalination*, **2017**, 404, 138-146 10.3 50
- 326 Double cross-linking PVA-SiO₂ hybrid membranes for alkali recovery. *Separation and Purification Technology*, **2017**, 174, 203-211 8.3 20
- 325 Ion exchange membranes: New developments and applications. *Journal of Membrane Science*, **2017**, 522, 267-291 9.6 455
- 324 Preparation of anion exchange membranes from BPPO and dimethylethanolamine for electrodialysis. *Desalination*, **2017**, 402, 10-18 10.3 60
- 323 Improved acid recovery performance by novel Poly(DMAEM-co-EMPS) anion exchange membrane via diffusion dialysis. *Journal of Membrane Science*, **2017**, 525, 163-174 9.6 32

322	Improving the water dissociation efficiency in a bipolar membrane with amino-functionalized MIL-101. <i>Journal of Membrane Science</i> , 2017 , 524, 370-376	9.6	33
321	Silane Cross-Linked Sulfonated Poly(Ether Ketone/Ether Benzimidazole)s for Fuel Cell Applications. <i>Polymers</i> , 2017 , 9,	4.5	8
320	Hybrid membranes from sulphonated poly (2, 6-dimethyl-1, 4-phenylene oxide) and sulphonated nano silica for alkali recovery. <i>Journal of Membrane Science</i> , 2016 , 498, 201-207	9.6	10
319	Second interfacial polymerization on polyamide surface using aliphatic diamine with improved performance of TFC FO membranes. <i>Journal of Membrane Science</i> , 2016 , 498, 30-38	9.6	61
318	Electrodialysis with nanofiltration membrane (EDNF) for high-efficiency cations fractionation. <i>Journal of Membrane Science</i> , 2016 , 498, 192-200	9.6	83
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10	A new inorganic/organic negatively charged membrane: membrane preparation and characterizations. <i>Journal of Membrane Science</i> , 2003 , 224, 117-125	9.6	64
9	A new insight into the adsorption of bovine serum albumin onto porous polyethylene membrane by zeta potential measurements, FTIR analyses, and AFM observations. <i>Journal of Colloid and Interface Science</i> , 2003 , 262, 342-50	9.3	60
8	PEG-catalytic water splitting in the interface of a bipolar membrane. <i>Journal of Colloid and Interface Science</i> , 2003 , 263, 386-90	9.3	53
7	Development of bipolar membrane-based processes. <i>Desalination</i> , 2001 , 140, 247-258	10.3	69
6	Water dissociation phenomena in a bipolar membrane. <i>Science in China Series B: Chemistry</i> , 1999 , 42, 589-598		10
5	Organic Electrolytes for pH-Neutral Aqueous Organic Redox Flow Batteries. <i>Advanced Functional Materials</i> , 2108777	15.6	4
4	Bipolar membrane electrodialysis for clean production of L-10-camphorsulfonic acid: From laboratory to industrialization. <i>AIChE Journal</i> , e17490	3.6	2
3	Nuclear Magnetic Resonance Techniques in the Analysis of Pamam Dendrimer-Based Drug Delivery Systems 439-461		
2	Ion-Distillation For isolating lithium from lake brine. <i>AIChE Journal</i> ,	3.6	0
1	Current Challenges and Perspectives of Polymer Electrolyte Membranes. <i>Macromolecules</i> ,	5.5	8