

# CITATION REPORT

List of articles citing

**Thermodynamics of hyperfiltration (reverse osmosis):  
criteria for efficient membranes**

**DOI: 10.1016/s0011-9164(00)80018-1**  
**Desalination, 1966, 1, 311-326.**

**Source:** <https://exaly.com/paper-pdf/8962869/citation-report.pdf>

**Version:** 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
855	Transport coefficients and salt rejection in unchanged hyperfiltration membranes. <i>Desalination</i> , <b>1966</b> , 1, 327-341	10.3	61
854	Hyperfiltration in charged membranes: the fixed charge model. <i>Desalination</i> , <b>1967</b> , 2, 25-39	10.3	75
853	Mass Transport of Binary Electrolytes in Membranes. Concentration Dependence for Sodium Chloride Transport in Cellulose Acetate. <b>1969</b> , 8, 36-49		20
852	Interfacial and barrier phenomena in desalination processes. <b>1969</b> , 2, 332-346		
851	The determination of the intrinsic characteristics of reverse osmosis membranes. <i>Desalination</i> , <b>1969</b> , 6, 1-12	10.3	11
850	Concentration build-up in reverse osmosis in turbulent flow. <i>Desalination</i> , <b>1969</b> , 7, 97-109	10.3	5
849	Boron rejection by cellulose acetate reverse osmosis membranes. <i>Desalination</i> , <b>1970</b> , 7, 249-258	10.3	11
848	Transport properties of polyvinylpyrrolidone-polyisocyanate interpolymer membranes. <i>Desalination</i> , <b>1970</b> , 8, 177-193	10.3	7
847	Some remarks on the Kedem-Katchalsky equations for non-electrolytes. <b>1970</b> , 32, 237-47		12
846	Stofftrennung durch Druckfiltration mit semipermeablen Membranen. <b>1970</b> , 42, 1095-1102		11
845	Solute Polarization and Cake Formation in Membrane Ultrafiltration: Causes, Consequences, and Control Techniques. <b>1970</b> , 47-97		237
844	Permeability of cellulose acetate membranes to selected solutes. <b>1971</b> , 5, 167-187		31
843	Steady-state sieving across membranes. <b>1971</b> , 172, 858-9		10
842	Water and Salt Transport in Hyperfiltration. <b>1972</b> , 17-42		2
841	Mathematical modelling of reverse osmosis and ultrafiltration processes. <i>Desalination</i> , <b>1972</b> , 11, 268-301	10.3	5
840	Hyperfiltration by dynamically formed hydrous zirconium oxide and aluminum oxide membranes. <i>Desalination</i> , <b>1972</b> , 11, 315-327	10.3	4
839	Charakterisierung synthetischer Membranen für die praktische Anwendung durch Transport- und Verteilungskoeffizienten. <b>1973</b> , 45, 1216-1222		13

838	Hyperfiltration by polyelectrolyte membranes. I. Analysis of the streaming potential. <b>1973</b> , 44, 21-36		11
837	On pore flow models for reverse osmosis desalination. <i>Desalination</i> , <b>1973</b> , 12, 343-359	10.3	14
836	A friction coefficient, series-parallel channel model for transcapillary flux of nonelectrolytes and water. <b>1973</b> , 6, 169-93		33
835	Characterization of Charged Membranes During Hyperfiltration: The Transport Numbers. <b>1973</b> , 11, 313-324		2
834	High pressure dialysis cell. <b>1974</b> , 45, 1403-7		5
833	Einstufige Meerwasser-Entsalzung durch umgekehrte Osmose. <b>1974</b> , 46, 485-485		
832	Relation between salt rejection $r$ and reflection coefficient $\sigma$ of asymmetric cellulose acetate membranes. <i>Desalination</i> , <b>1974</b> , 14, 389-393	10.3	32
831	Ionic transport through porous ion-exchange membranes in hyperfiltration and piezodialysis. <i>Desalination</i> , <b>1974</b> , 15, 109-125	10.3	5
830	Concentration polarisation in reverse osmosis flow systems under laminar conditions. Effect of surface roughness and fouling. <b>1974</b> , 29, 1651-1658		11
829	Asymmetrisch strukturierte Membranen - Herstellung und Bedeutung. <b>1975</b> , 87, 476-483		3
828	Asymmetric membranes: preparation and applications. <b>1975</b> , 14, 452-9		6
827	Water and solute transport through cellulose acetate reverse osmosis membranes. <i>Desalination</i> , <b>1975</b> , 17, 145-165	10.3	88
826	Study of the morphology and determination of the transport coefficients for reverse osmosis membranes. <i>Desalination</i> , <b>1975</b> , 16, 271-285	10.3	7
825	The hyperfiltration streaming potential as a tool in the characterization of polyelectrolyte membranes. <b>1975</b> , 51, 177-188		8
824	Osmosis and Ion Transport in Charged Porous Membranes: A Macroscopic, Mechanistic Model. <b>1976</b> , 255-265		5
823	The membrane transport matrix: Clarification of its usefulness. <b>1976</b> , 4, 115-123		0
822	Porous glass desalination membranes: phenomenological transport coefficients and fixed charge salt exclusion. <i>Desalination</i> , <b>1976</b> , 18, 43-58	10.3	6
821	A molecular friction model for transport of uncharged solutes in neutral hyperfiltration and ultrafiltration membranes containing bound water. <i>Desalination</i> , <b>1976</b> , 18, 259-281	10.3	7

820	Water and water vapor permeation and solute separation through poly(n-alkyl L-glutamate) membranes. <b>1977</b> , 13, 203-214		8
819	Determination of Transport Parameters of Synthetic Membranes by Hyperfiltration Experiments Part I: Derivation of Transport Relationship from the Linear Relations of Thermodynamics of Irreversible Processes. <b>1977</b> , 81, 269-276		70
818	Determination of Transport Parameters of Synthetic Membranes by Hyperfiltration Experiments Part II: Membrane Transport Parameters Independent of Pressure and/or Pressure Difference. <b>1977</b> , 81, 854-864		45
817	The membrane transport matrix: Relationship between concentration dependence, matrix transformation, and accuracy of flux representation. <i>Journal of Membrane Science</i> , <b>1977</b> , 2, 269-287	9.6	4
816	The mechanism of reverse osmosis separation of organic solutes using cellulose acetate membranes. <i>Desalination</i> , <b>1977</b> , 24, 17-18	10.3	2
815	Methods for determining the selectivity of reverse osmosis membranes. <i>Desalination</i> , <b>1977</b> , 24, 19-37	10.3	35
814	Polarization in unit cells. <i>Desalination</i> , <b>1977</b> , 24, 211-223	10.3	
813	A simple network thermodynamic method for series-parallel coupled flows: II. The non-linear theory, with applications to coupled solute and volume flow in a series membrane. <b>1977</b> , 69, 511-41		34
812	The osmotic flow of an electrolyte through a charged porous membrane. <b>1977</b> , 66, 107-35		10
811	Analysis of transport phenomena in cellulose diacetate membranes. II [Pressure effects on permeability characteristics in reverse osmosis. <i>Desalination</i> , <b>1978</b> , 27, 197-213	10.3	6
810	The electrical resistance of epithelia in the presence of osmotic and hydrostatic pressure gradients. <b>1978</b> , 72, 545-50		2
809	A two-coefficient water transport equation for pressure-retarded osmosis. <i>Journal of Membrane Science</i> , <b>1978</b> , 4, 351-362	9.6	83
808	Statisticalmechanical theory of membrane transport for multicomponent systems: Passive transport through open membranes. <b>1978</b> , 68, 3562-3573		80
807	Correlation between structure, water sorption and ion exchange properties in $\beta$ polysoap membranes. <i>Journal of Membrane Science</i> , <b>1978</b> , 4, 315-334	9.6	1
806	Transcapillary solute exchange. A comparison of the Kedem-Katchalsky convection-diffusion equations with the rigorous nonlinear equations for this special case. <b>1978</b> , 15, 207-20		23
805	Bile Salt Micelles as Liquid Membranes. <b>1979</b> , 4,		5
804	Der gegenwärtige Stand der Trenntechnik mit Membranen. <b>1979</b> , 81, 75-83		2
803	Hyperfiltration of nonelectrolytes: dependence of rejection on solubility parameters. <i>Desalination</i> , <b>1979</b> , 28, 117-124	10.3	4

802	Salt rejection and flux in reverse osmosis with compactible membranes. <i>Desalination</i> , <b>1979</b> , 28, 65-85	10.3	18
801	Energy-barrier models for membrane transport. <b>1979</b> , 9, 111-20		15
800	Electro-osmosis of water through liquid membranes. <b>1979</b> , 69, 280-286		12
799	Sieving properties of hemodialysis membranes. <i>Journal of Membrane Science</i> , <b>1979</b> , 5, 23-49	9.6	51
798	Osmotic properties of a modified cellulose acetate membrane: The reflection coefficient and its dependence on the volume flow history. <i>Journal of Membrane Science</i> , <b>1979</b> , 5, 149-171	9.6	12
797	Comparison of experimental and calculated permeability and rejection coefficients for hemodialysis membranes. <i>Journal of Membrane Science</i> , <b>1979</b> , 5, 173-188	9.6	65
796	Transport Through Polymer Membranes from the Liquid Phase. <b>1979</b> , 83, 342-351		11
795	Quantum model for transport through membranes. <b>1980</b> , 17, 1191-1200		3
794	Membrane filtration of NSSC-waste liquor. <i>Desalination</i> , <b>1980</b> , 32, 327-339	10.3	14
793	The influence of the porous sublayer on the salt rejection and reflection coefficient of asymmetric CA membranes. <i>Desalination</i> , <b>1980</b> , 34, 141-157	10.3	30
792	Overview of theories for water and solute transport in UF/RO membranes. <i>Desalination</i> , <b>1980</b> , 35, 21-38	10.3	46
791	A MODEL OF CAPILLARY SOLUTES AND FLUID EXCHANGE. <b>1980</b> , 4, 189-206		5
790	Dependency of permeability-surface area product upon solute concentration, and its significance in the interpretation of lymph flux data. <b>1980</b> , 20, 212-22		9
789	Anomalous osmosis and salt concentration dependence of the reflection coefficient in charged membranes. <i>Journal of Membrane Science</i> , <b>1980</b> , 6, 171-183	9.6	14
788	Changes in transcapillary protein flux by permeative and convective mechanisms as functions of increasing transcapillary water flux. <b>1981</b> , 22, 271-95		6
787	Effect of heteroporosity on membrane rejection coefficients. <i>Journal of Membrane Science</i> , <b>1981</b> , 8, 69-90	9.6	16
786	Molecular (osmotic and electro-osmotic) backwash of cellulose acetate hyperfiltration membranes. <i>Journal of Membrane Science</i> , <b>1981</b> , 8, 173-192	9.6	24
785	Osmo-power. Theory and performance of an osmo-power pilot plant. <b>1981</b> , 8, 103-128		40

784	Hollow fine fiber vs. flat sheet membranes - a comparison of structures and performance. <i>Desalination</i> , <b>1981</b> , 38, 361-372	10.3	7
783	REVIEW OF REVERSE OSMOSIS MEMBRANES AND TRANSPORT MODELS. <b>1981</b> , 12, 279-363		244
782	Solute Preferential Sorption in Reverse Osmosis. <b>1981</b> , 293-314		3
781	System analysis of vascular membrane water and protein transport: general method and application to canine hindquarters. <b>1982</b> , 23, 31-55		3
780	Liquid membrane phenomena in haloperidol action. <b>1982</b> , 71, 526-9		18
779	On the nature of free and bound water in water permeation of cellulose acetate membranes in reverse osmosis. <i>Desalination</i> , <b>1982</b> , 42, 57-61	10.3	5
778	Transient diffusion through a membrane with a selective skin. <b>1982</b> , 86, 119-134		4
777	Liquid-membrane phenomena in imipramine action. <b>1982</b> , 87, 56-61		16
776	Liquid membrane phenomena in diazepam action. <b>1983</b> , 93, 72-77		14
775	Liquid membrane phenomenon in reserpine action. <b>1983</b> , 72, 599-601		19
774	Thermodynamics of ternary systems in reverse osmosis. <i>Desalination</i> , <b>1983</b> , 48, 105-119	10.3	11
773	Thermodynamic analysis. <i>Desalination</i> , <b>1983</b> , 44, 3-16	10.3	5
772	Transport through charged ultrafiltration membranes. <i>Desalination</i> , <b>1983</b> , 46, 407-416	10.3	7
771	Liquid membrane phenomena in chlorpromazine action. <b>1983</b> , 17, 187-92		17
770	Positive and negative ion retention curves of mixed electrolytes in reverse osmosis with a cellulose acetate membrane. An analysis on the basis of the generalized Nernst-Planck equation. <b>1983</b> , 96, 121-134		43
769	Liquid membrane phenomena in local anaesthetics. <b>1983</b> , 94, 456-462		15
768	Liquid membrane phenomenon in antihistamines. <b>1983</b> , 17, 263-272		11
767	Molecular weight spectra of ultrafilter rejection. II. Measurements on highly rejecting filters. <i>Journal of Membrane Science</i> , <b>1983</b> , 15, 245-257	9.6	3

766	Structure and function of membranes. <i>Journal of Membrane Science</i> , <b>1983</b> , 16, 7-20	9.6	3
765	Concentration profiles retention flux curves for composite membranes in reverse osmosis. <i>Journal of Membrane Science</i> , <b>1983</b> , 14, 211-227	9.6	11
764	Osmometry with doublelayer membranes. <i>Journal of Membrane Science</i> , <b>1983</b> , 14, 229-248	9.6	3
763	Membrane Methods in Water and Wastewater Treatment: An Overview. <b>1984</b> , 1-19		2
762	Acute local effects of angiotensin II on the intestinal vasculature. <b>1984</b> , 6, 13-9		29
761	Glucose and glycerol compared as osmotic agents for peritoneal dialysis. <b>1984</b> , 25, 20-5		36
760	Precise measurement of membrane constants of cellulose acetate membranes by direct osmosis tests. <i>Desalination</i> , <b>1984</b> , 49, 367-378	10.3	5
759	Liquid membrane phenomenon in diuretics. <b>1984</b> , 73, 1579-81		9
758	Photoosmosis through liquid membrane bilayers: Studies on chloroplast extract, haemoglobin, protoporphyrin, and cyanocobalamin. <b>1984</b> , 99, 71-79		13
757	An experimental study of the complete-mixing model for radial flow hollow fiber reverse osmosis systems. <i>Desalination</i> , <b>1984</b> , 49, 57-88	10.3	21
756	Mechanisms of Transport through Reverse Osmosis Membranes. <b>1984</b> , 19, 357-373		32
755	On the mechanism of separation of ethanol/water mixtures by pervaporation I. Calculations of concentration profiles. <i>Journal of Membrane Science</i> , <b>1984</b> , 17, 289-307	9.6	255
754	The Application of Generalized Nernst-Planck Equations to the Description of Ion Retention in the Hyperfiltration of Mixed Electrolyte Solutions through a Neutral Membrane. <b>1984</b> , 88, 724-732		7
753	New formulation of water and macromolecular flux which corrects for non-ideality: theory and derivation, predictions, and experimental results. <b>1985</b> , 112, 369-401		13
752	The liquid-membrane phenomenon in steroidal drugs. <b>1985</b> , 14, 1-10		10
751	Analysis of Transport in a Pressure-Driven Membrane Separation Process. <b>1985</b> , 113-123		
750	The influence of membrane heterogeneity on the solute retention. <i>Desalination</i> , <b>1985</b> , 52, 235-247	10.3	3
749	Liquid membrane phenomenon in antiepileptic drugs. <b>1985</b> , 24, 297-305		9

748	An automated data collection system for membrane transport experiments. <i>Journal of Membrane Science</i> , <b>1985</b> , 22, 77-109	9.6	7
747	Methods of investigation the influence of pressure on the ultrafiltration of polyvinylpyrrolidone. <b>1986</b> , 28, 1725-1730		2
746	Liquid membrane phenomenon in vitamin E: studies on $\alpha$ -tocopherol. <b>1986</b> , 32, 39-45		5
745	Liquid membrane phenomena in antiarrhythmic action. <b>1986</b> , 28, 145-149		4
744	Explicit expressions for permeate flux and concentration in hyperfiltration. <b>1986</b> , 41, 1913-1917		4
743	Rejection spectra of reverse osmosis membranes degraded by hydrolysis or chlorine attack. <i>Desalination</i> , <b>1986</b> , 60, 93-110	10.3	11
742	Effect of concentration on the rejection coefficients of rigid macromolecules in track-etch membranes. <b>1986</b> , 113, 132-142		43
741	Chapter 1.4 Measurement techniques of transport through membranes. <i>Desalination</i> , <b>1986</b> , 59, 105-198	10.3	83
740	Mass transfer in the membrane concentration polarization layer under turbulent cross flow. <i>Journal of Membrane Science</i> , <b>1987</b> , 30, 153-170	9.6	316
739	A hydrodynamic study of the retention of polyethylene glycols by cellulose acetate membranes in the absence and presence of proteins. <i>Journal of Membrane Science</i> , <b>1987</b> , 30, 259-272	9.6	15
738	Liquid membrane phenomena in prostaglandins: Studies on prostaglandin E1 and prostaglandin F <sub>2</sub> $\beta$ . <b>1987</b> , 117, 375-383		4
737	Design of reverse osmosis process. <i>Desalination</i> , <b>1987</b> , 63, 119-133	10.3	4
736	Photo-osmosis through liquid membrane bilayers generated by bacteriorhodopsin. <b>1988</b> , 31, 511-5		10
735	Mass transfer in the membrane concentration polarization layer under turbulent cross flow. <i>Journal of Membrane Science</i> , <b>1988</b> , 37, 145-163	9.6	43
734	Application of the stefan-maxwell equations to the pressure-driven membrane separation of dilute multicomponent solutions of nonelectrolytes. <i>Journal of Membrane Science</i> , <b>1988</b> , 37, 233-249	9.6	14
733	A Stefan-Maxwell Analysis of Protein Transport in Porous Membranes. <b>1988</b> , 23, 1799-1811		18
732	Simultaneous Action of Hydrostatic and Osmotic Pressure Gradients on Cellophane Membranes. <b>1988</b> , 13,		3
731	Liquid membrane phenomenon in the action of barbiturates. <b>1989</b> , 35, 17-25		3



730	Reverse osmosis in charged membranes: Analytical predictions from the space-charge model. <b>1989</b> , 132, 413-424		32
729	Simplified analysis of transport in reverse osmosis (RO) hollow fibers (HF) membranes. <i>Desalination</i> , <b>1989</b> , 75, 97-116	10.3	3
728	Intermediate reverse osmosis ultrafiltration (RO UF) membranes for concentration and desalting of low molecular weight organic solutes. <i>Desalination</i> , <b>1989</b> , 71, 233-245	10.3	97
727	Application of network thermodynamics to the computer modelling of nonstationary diffusion through heterogeneous membranes. <i>Journal of Membrane Science</i> , <b>1989</b> , 42, 1-12	9.6	14
726	Linear relationships between rejection and flux in pressure-driven membrane separation processes. <i>Journal of Membrane Science</i> , <b>1989</b> , 43, 307-311	9.6	1
725	Transport Models for Ion-Exchange Membranes. <b>1989</b> , 1-67		10
724	ULTRAFILTRATION FLUX AND REJECTION CHARACTERISTICS OF BLACK LIQUOR AND POLYETHYLENE GLYCOL. <b>1989</b> , 75, 39-56		16
723	The role of coupling in pervaporation. <i>Journal of Membrane Science</i> , <b>1989</b> , 47, 277-284	9.6	49
722	Permeation mechanism for a thermo-sensitive composite membrane composed of porous glass and N-isopropylacrylamide.. <b>1990</b> , 23, 447-452		14
721	Effective charge density and pore structure of charged ultrafiltration membranes.. <b>1990</b> , 23, 604-610		39
720	Performance of RO membranes in correlation with membrane structure, transport mechanisms of matter and module design (fouling). State of the art. <i>Desalination</i> , <b>1990</b> , 77, 35-54	10.3	21
719	Flux decline in ultrafiltration processes. <i>Desalination</i> , <b>1990</b> , 77, 101-133	10.3	85
718	Module and process design for vapor permeation. <i>Desalination</i> , <b>1990</b> , 77, 295-322	10.3	20
717	Fundamental principles of ultrafiltration. <b>1990</b> , 27, 67-81		28
716	Reverse Osmotic Separation of Sodium Chloride and Cobalt (II) Chloride through Membranes Prepared from Schiff Bases of Polyallylamine. <b>1990</b> , 25, 45-62		3
715	Concentration-dependent solute activity coefficients and solute transport in pressure-driven membrane separation processes. <i>Journal of Membrane Science</i> , <b>1990</b> , 48, 127-140	9.6	1
714	A Simplified intrinsic rejection coefficient model for capillary hollow fibers. <i>Journal of Membrane Science</i> , <b>1990</b> , 49, 241-252	9.6	
713	Separation of aqueous solutions of nonionic organic solutes by ultrafiltration. <i>Journal of Membrane Science</i> , <b>1990</b> , 48, 1-23	9.6	13

712	The effect of previous convective flux on the nonstationary diffusion through membranes. Network simulation. <i>Journal of Membrane Science</i> , <b>1990</b> , 48, 67-77	9.6	13
711	Statistical-mechanical theory of membrane transport. <i>Journal of Membrane Science</i> , <b>1990</b> , 51, 1-81	9.6	143
710	Separation of ternary salt/acid aqueous solutions using hollow fiber reverse osmosis. <i>Journal of Membrane Science</i> , <b>1990</b> , 54, 175-189	9.6	14
709	Nanofiltration – A New Membrane Processing Application for Demineralization in the Dairy Industry. <b>1991</b> , 24, 200-202		2
708	Transport analysis of reverse osmosis of organic aqueous solutions.. <b>1991</b> , 24, 364-371		10
707	Calculation of ion rejection by extended Nernst-Planck equation with charged reverse osmosis membranes for single and mixed electrolyte solutions.. <b>1991</b> , 24, 511-517		155
706	Prediction of intrinsic pore properties of ultrafiltration membrane by solute rejection curves: Effects of operating conditions on pore properties.. <b>1991</b> , 24, 1-7		61
705	Comparison of transport of alkali halides and nitrates across asymmetric cellulose acetate and polyamide, composite poly(etherurea), and cation exchange membranes. <i>Desalination</i> , <b>1991</b> , 83, 261-270 <sup>10.3</sup>		5
704	Characterization of composite membranes by their non-equilibrium thermodynamic transport parameters. <i>Desalination</i> , <b>1991</b> , 80, 275-292	10.3	4
703	Several engineering equations in the design of reverse osmosis plants. <i>Desalination</i> , <b>1991</b> , 80, 15-30	10.3	5
702	Characterization of Ultrafiltration Membranes. <b>1991</b> , 23, 389-397		3
701	Transport Phenomena in Membrane Separation Processes. <b>1992</b> , 25, 469-480		7
700	Separation of alcohol aqueous solutions by reverse osmosis and pervaporation using a poly(1-trimethylsilyl-1-propyne)membrane.. <b>1992</b> , 25, 580-585		14
699	Theory. <b>1992</b> , 167-185		4
698	Glomerular Filtration. <b>1992</b> , 545-638		5
697	High-Recovery Low-Pressure Reverse Osmosis. <b>1992</b> ,		1
696	Generalization of the Spiegler-Kedem-Katchalsky frictional model equations of the transmembrane transport for multicomponent non-electrolyte solutions. <b>1992</b> , 44, 139-42		5
695	Coupling-constant description of coupled flow and diffusion. <i>Journal of Membrane Science</i> , <b>1992</b> , 74, 253-261	9.6	3

694	Diffusional phenomena in membrane separation processes. <i>Journal of Membrane Science</i> , <b>1992</b> , 73, 103-118	9.6	51
693	Dextran transport through asymmetric ultrafiltration membranes: Comparison with hydrodynamic models. <i>Journal of Membrane Science</i> , <b>1992</b> , 68, 21-41	9.6	74
692	Determination of some transport coefficients for the skin and porous layer of a composite membrane. <i>Journal of Membrane Science</i> , <b>1992</b> , 69, 29-42	9.6	30
691	Flux decline behaviour with low molecular weight solutes during ultrafiltration in an unstirred batch cell. <i>Journal of Membrane Science</i> , <b>1992</b> , 72, 149-161	9.6	31
690	Effect of membrane structure and protein concentration on the osmotic reflection coefficient. <i>Journal of Membrane Science</i> , <b>1992</b> , 72, 277-292	9.6	10
689	Design and analysis of reverse osmosis systems using three parameter models for transport across the membrane. <i>Desalination</i> , <b>1992</b> , 85, 283-296	10.3	6
688	Characterisation of nanofiltration membranes for the separation of aqueous dye-salt solutions. <i>Desalination</i> , <b>1992</b> , 89, 89-107	10.3	87
687	Separation of electrolyte solutions by reverse osmosis. <b>1993</b> , 43, 145-67		29
686	Analysis of steric hindrance reduction in pulsed protein ultrafiltration. <i>Journal of Membrane Science</i> , <b>1993</b> , 85, 39-58	9.6	12
685	Transport equation for a membrane based on a frictional model. <i>Journal of Membrane Science</i> , <b>1993</b> , 84, 79-91	9.6	8
684	Phenomenological theory of reverse osmosis in macroscopically homogeneous membranes and its specification for the capillary space-charge model. <i>Journal of Membrane Science</i> , <b>1993</b> , 79, 133-158	9.6	23
683	Diffusive flows in ultrafiltration and their effect on membrane retention properties. <i>Journal of Membrane Science</i> , <b>1993</b> , 80, 73-83	9.6	5
682	Transport of Na <sub>2</sub> SO <sub>4</sub> and MgSO <sub>4</sub> solutions through a composite membrane. <i>Journal of Membrane Science</i> , <b>1993</b> , 80, 275-283	9.6	13
681	Study of protein transmission through ultrafiltration membranes. <i>Journal of Membrane Science</i> , <b>1993</b> , 85, 111-128	9.6	34
680	Characterization of the reverse osmosis membranes CA 80 and CA 95 by transport coefficients. <i>Desalination</i> , <b>1993</b> , 91, 293-306	10.3	
679	New trends of membrane separation technology. <b>1993</b> , 70-71, 397-406		
678	Non-equilibrium thermodynamic analysis of the transport properties of formed-in-place zirconium (IV) hydroxide-polyacrylate membranes in lactose-water solutions. <i>Desalination</i> , <b>1994</b> , 95, 121-137	10.3	11
677	Effect of solution pH and ionic strength on the separation of albumin from immunoglobulins (IgG) by selective filtration. <b>1994</b> , 43, 960-8		188

676	Linear approximations for the description of solute flux through permselective membranes. <i>Journal of Membrane Science</i> , <b>1994</b> , 95, 179-184	9.6	9
675	Determination of pore size and pore size distribution. <i>Journal of Membrane Science</i> , <b>1994</b> , 96, 91-130	9.6	110
674	Determination of pore size and pore size distribution. <i>Journal of Membrane Science</i> , <b>1994</b> , 96, 131-165	9.6	213
673	Modelling of protein transmission through ultrafiltration membranes. <i>Journal of Membrane Science</i> , <b>1994</b> , 97, 83-90	9.6	15
672	Bulk-Phase Criteria for Negative Ion Rejection in Nanofiltration of Multicomponent Salt Solutions. <b>1994</b> , 29, 1165-1182		22
671	Characterization of hollow-fiber membranes.. <b>1994</b> , 27, 321-328		
670	Transport of organic electrolytes with electrostatic and steric-hindrance effects through nanofiltration membranes.. <b>1995</b> , 28, 372-380		54
669	Evaluation of pore structure and electrical properties of nanofiltration membranes.. <b>1995</b> , 28, 186-192		156
668	Osmosis and reverse osmosis in fine-porous charged diaphragms and membranes. <b>1995</b> , 60, 1-93		78
667	Non-equilibrium thermodynamic analysis of the transport properties of formed-in-place Zr(IV) hydrous oxide-PAA membranes: II NaCl-water solutions. <i>Desalination</i> , <b>1995</b> , 101, 31-38	10.3	18
666	Analysis of reverse osmosis membrane behaviors in a long-term verification test. <i>Desalination</i> , <b>1995</b> , 100, 77-84	10.3	22
665	Modelling of nanofiltration applied to the recovery of salt from waste brine at a sugar decolourisation plant. <i>Journal of Membrane Science</i> , <b>1995</b> , 102, 163-175	9.6	40
664	Electrolyte transport through nanofiltration membranes by the space-charge model and the comparison with Teorell-Meyer-Sievers model. <i>Journal of Membrane Science</i> , <b>1995</b> , 103, 117-133	9.6	191
663	Mass transfer in cross-flow ultrafiltration for technical preparation of proteopol BP-S enzymes. <b>1995</b> , 30, 361-366		1
662	Theoretical description of mass transport in medical membrane devices. <b>1995</b> , 19, 420-7		34
661	Chapter 4 Reverse osmosis. <b>1995</b> , 2, 113-142		4
660	Chapter 12 Transport and fouling phenomena in liquid phase separation with inorganic and hybrid membranes. <b>1996</b> , 569-618		16
659	Estimation and Influence of Long Range Solute. Membrane Interactions in Ultrafiltration. <b>1996</b> , 35, 3108-3121		47

658	Retention of ions in nanofiltration at various ionic strength. <i>Desalination</i> , <b>1996</b> , 104, 37-46	10.3	42
657	Pore structure of gel chitosan membranes. III. Pressuredriven mass transport measurements. <b>1996</b> , 4, 55-63		7
656	Influence of surface interaction on transfer during colloid ultrafiltration. <i>Journal of Membrane Science</i> , <b>1996</b> , 115, 49-63	9.6	82
655	MULTICOMPONENT TRANSPORT OF ELECTROLYTES THROUGH CELLULOSE ACETATE MEMBRANES. <b>1996</b> , 152-153, 53-74		1
654	Transport in Membranes. <b>1996</b> , 210-279		14
653	Artificial Kidney Engineering. Dialysis Membrane and Dialyzer for Blood Purification.. <b>1997</b> , 30, 587-599		15
652	Performance of stabilized zirconia nanofilters under dynamic conditions. <i>Separation and Purification Technology</i> , <b>1997</b> , 12, 243-253	8.3	19
651	A Frictional Interpretation of the Phenomenological Coefficients of Membrane Permeability for Multicomponent Non-ionic Solutions. <b>1997</b> , 23, 239-50		4
650	Salt filtration on gamma alumina nanofiltration membranes fired at two different temperatures. <i>Journal of Membrane Science</i> , <b>1997</b> , 135, 1-8	9.6	46
649	The electrostatic and steric-hindrance model for the transport of charged solutes through nanofiltration membranes. <i>Journal of Membrane Science</i> , <b>1997</b> , 135, 19-32	9.6	266
648	Analysis of proteins transmission in vortex flow ultrafilter for mass transfer coefficient. <i>Journal of Membrane Science</i> , <b>1997</b> , 136, 141-151	9.6	9
647	Estimation of mass transfer coefficient using a combined nonlinear membrane transport and film theory model. <i>Desalination</i> , <b>1997</b> , 109, 39-49	10.3	123
646	Non-equilibrium thermodynamics analysis of the transport properties of formed-in-place Zr(IV) hydroxide-polyacrylate membranes: III. Ternary lactose-NaCl-water solutions. <i>Desalination</i> , <b>1997</b> , 113, 1-6	10.3	6
645	Dye-salt separations by nanofiltration using weak acid polyelectrolyte membranes. <i>Desalination</i> , <b>1997</b> , 114, 129-137	10.3	45
644	Nanofiltration of combined salt and sugar solutions: coupling between retentions. <i>Desalination</i> , <b>1998</b> , 120, 211-220	10.3	60
643	Modelling reverse osmosis by irreversible thermodynamics. <i>Separation and Purification Technology</i> , <b>1998</b> , 13, 117-128	8.3	28
642	Diafiltration by nanofiltration: Prediction and optimization. <b>1998</b> , 44, 1799-1812		167
641	Application of Pitzer's electrolyte solution theory to frictional model of charged nanofiltration membrane. <b>1998</b> , 308, 177-182		2

640	Electrokinetic parameters of ion transport across isolated pepper cuticular membranes. <i>Journal of Membrane Science</i> , <b>1998</b> , 139, 147-154	9.6	21
639	Performance of partially permeable microfiltration membranes under low fouling conditions. <i>Journal of Membrane Science</i> , <b>1998</b> , 147, 265-278	9.6	37
638	Chemistry for the Protection of the Environment 3. <b>1998</b> ,		2
637	Thin Film Composite Polyamide Membrane Parameters Estimation for Phenol-Water System by Reverse Osmosis. <b>1998</b> , 33, 2541-2557		19
636	REVIEW OF DYNAMIC MEMBRANES. <b>1999</b> , 15, 1-40		9
635	Flux enhancement during Dean vortex tubular membrane nanofiltration: 13. Effects of concentration and solute type1This paper is part 13. Previous papers of the series can be found in [715, 29]. Paper 7 has been submitted while papers 11 and 12 are in the review process.1. <i>Journal of Membrane Science</i> , <b>1999</b> , 153, 259-269	9.6	31
634	Sodium cyanide separation and parameter estimation for reverse osmosis thin film composite polyamide membrane. <i>Journal of Membrane Science</i> , <b>1999</b> , 154, 89-103	9.6	46
633	Effect of boundary layers on reverse osmosis through a horizontal membrane. <i>Journal of Membrane Science</i> , <b>1999</b> , 159, 177-184	9.6	16
632	Theory of pressure-driven transport of neutral solutes and ions in porous ceramic nanofiltration membranes. <i>Journal of Membrane Science</i> , <b>1999</b> , 160, 141-170	9.6	53
631	Ion transport modelling through nanofiltration membranes. <i>Journal of Membrane Science</i> , <b>1999</b> , 160, 187-200	9.6	59
630	Calculation of osmotic pressure difference across membranes in hyperfiltration. <i>Desalination</i> , <b>1999</b> , 121, 131-137	10.3	9
629	Influence of operating conditions on the retention of copper and cadmium in aqueous solutions by nanofiltration: experimental results and modelling. <i>Separation and Purification Technology</i> , <b>1999</b> , 15, 181-187	8.3	74
628	The glomerular barrier fits a two-pore-and-fiber-matrix model: derivation and physiologic test. <b>1999</b> , 57, 227-43		9
627	Modélisation du transport des solutés neutres à travers des membranes de nanofiltration. <b>2000</b> , 13, 405-419		3
626	Temperature effect on transport performance by inorganic nanofiltration membranes. <b>2000</b> , 46, 565-574		106
625	Estimation of transport parameters of RO membranes for seawater desalination. <b>2000</b> , 46, 1967-1973		42
624	Diffusional characteristics of sodium chloride in symmetrical cellulose acetate membranes measured by an unsteady-state dialysis method. <i>Desalination</i> , <b>2000</b> , 127, 225-249	10.3	12
623	Determination of pore size and pore size distribution on the surface of hollow-fiber filtration membranes: a review of methods. <i>Desalination</i> , <b>2000</b> , 129, 107-123	10.3	94

622	Predicting salt rejections at nanofiltration membranes using artificial neural networks. <i>Desalination</i> , <b>2000</b> , 129, 147-162	10.3	63
621	Simple technique for measuring the concentration polarization level in a reverse osmosis system. <i>Desalination</i> , <b>2000</b> , 131, 117-127	10.3	147
620	Dielectric exclusion of ions from membranes. <b>2000</b> , 85, 193-230		233
619	Determination of the porosity to thickness ratio $Ak/\delta$ for UF and MF membranes by diffusion experiments. <i>Journal of Membrane Science</i> , <b>2000</b> , 172, 125-133	9.6	12
618	Modified Kedem-Katchalsky equations and their applications. <i>Journal of Membrane Science</i> , <b>2000</b> , 174, 43-53	9.6	31
617	Transport of $MgSO_4$ , $MgCl_2$ , and $Na_2SO_4$ across an amphoteric nanofiltration membrane. <i>Journal of Membrane Science</i> , <b>2000</b> , 179, 137-154	9.6	87
616	Ultrafiltration and reverse osmosis of small non-charged molecules: a comparison study of rejection in a stirred and an unstirred batch cell. <i>Journal of Membrane Science</i> , <b>2000</b> , 164, 141-155	9.6	22
615	Asymptotic behaviour in the pressure-driven separations of ions of different mobilities in charged porous membranes. <i>Journal of Membrane Science</i> , <b>2000</b> , 167, 163-185	9.6	16
614	Copper transfer modeling through a nanofiltration membrane in the case of ternary aqueous solution. <i>Desalination</i> , <b>2000</b> , 127, 135-143	10.3	22
613	Membrane Transport Generated by the Osmotic and Hydrostatic Pressure. Correlation Relation for Parameters $L(p)$ , $\sigma$ and $\omega$ <b>2000</b> , 26, 307-20		10
612	Analysis of Linear Macromolecule Transport through Aluminum Anodic Oxide Membranes by Pore Model. <b>2000</b> , 33, 141-151		7
611	A Comparison of Models to Describe the Maximal Retention of Organic Molecules in Nanofiltration. <b>2000</b> , 35, 169-182		90
610	Role of Charge (Donnan) Exclusion in Removal of Arsenic from Water by a Negatively Charged Porous Nanofiltration Membrane. <b>2001</b> , 18, 105-113		195
609	Application of nanofiltration and reverse osmosis membranes to the salty and polluted surface water. <b>2001</b> , 36, 1321-33		13
608	Nanofiltration de solutions de nitrate d'ammonium. Etude des paramètres influents. <b>2001</b> , 14, 511-523		3
607	Concentration of 6-aminopenicillanic acid from penicillin bioconversion solution and its mother liquor by nanofiltration membrane. <b>2001</b> , 6, 200-204		18
606	Interaction effects in multicomponent separation by reverse osmosis. <i>Journal of Membrane Science</i> , <b>2001</b> , 183, 15-27	9.6	20
605	Boron reduction performance of reverse osmosis seawater desalination process. <i>Journal of Membrane Science</i> , <b>2001</b> , 183, 259-267	9.6	72

604	Behavior of a reverse osmosis plant adopting a brine conversion two-stage process and its computer simulation. <i>Journal of Membrane Science</i> , <b>2001</b> , 183, 249-257	9.6	33
603	A mechanistic model of transport processes in porous membranes generated by osmotic and hydrostatic pressure. <i>Journal of Membrane Science</i> , <b>2001</b> , 191, 61-69	9.6	25
602	Study of the structure of asymmetric cellulose acetate membranes for reverse osmosis using electron spin resonance (ESR) method. <b>2001</b> , 42, 6479-6484		22
601	A PREDICTIVE MODEL FOR ULTRAFILTRATION: COMBINATION OF OSMOTIC PRESSURE MODEL AND IRREVERSIBLE THERMODYNAMICS. <b>2001</b> , 36, 2659-2676		4
600	Evaluation of Feed Concentration Effects on Salt/Ion Transport through RO/NF Membranes with the Nernst-Planck-Donnan Model. <b>2002</b> , 19, 429-439		20
599	Numerical modelling of chemical osmosis and ultrafiltration across clay membranes. <b>2002</b> , 47, 647-653		7
598	Controlled Permeability and Ion Exclusion in Microporous Membranes Functionalized with Poly(l-glutamic acid). <b>2002</b> , 18, 5946-5952		36
597	Application of the charge regulation model to transport of ions through hydrophilic membranes: one-dimensional transport model for narrow pores (nanofiltration). <b>2002</b> , 251, 131-42		36
596	Correlation between transport parameters of ion-exchange membranes. <i>Journal of Membrane Science</i> , <b>2002</b> , 195, 89-102	9.6	65
595	Effect of organic ion on the separation of salts by nanofiltration membranes. <i>Journal of Membrane Science</i> , <b>2002</b> , 195, 247-263	9.6	59
594	Nanofiltration of l-phenylalanine and l-aspartic acid aqueous solutions. <i>Journal of Membrane Science</i> , <b>2002</b> , 196, 59-67	9.6	67
593	Transport properties in the nanofiltration of NaNO <sub>3</sub> water solutions with a weak acid polyelectrolyte membrane. <i>Journal of Membrane Science</i> , <b>2002</b> , 198, 145-148	9.6	1
592	Rejection of single salts versus transmembrane volume flow in RO/NF: thermodynamic properties, model of constant coefficients, and its modification. <i>Journal of Membrane Science</i> , <b>2002</b> , 198, 285-297	9.6	46
591	Sieving variations due to the choice in pore size distribution model. <i>Journal of Membrane Science</i> , <b>2002</b> , 209, 1-17	9.6	17
590	Simulation model for optimisation of two-stage membrane filtration plants minimising the specific costs of power consumption. <i>Journal of Membrane Science</i> , <b>2002</b> , 202, 217-232	9.6	10
589	The possibility of separating saccharides from a NaCl solution by using nanofiltration in diafiltration mode. <i>Journal of Membrane Science</i> , <b>2002</b> , 204, 271-281	9.6	132
588	Modelling of ammonium fumarate recovery from model solutions by nanofiltration and reverse osmosis. <i>Journal of Membrane Science</i> , <b>2002</b> , 209, 405-420	9.6	16
587	Transport of large molecules through membranes with narrow pores. <i>Journal of Membrane Science</i> , <b>2002</b> , 210, 227-243	9.6	39



586	Reactive dye removal in dye/salt mixtures by nanofiltration membranes containing vinylsulphone dyes: effects of feed concentration and cross flow velocity. <i>Desalination</i> , <b>2002</b> , 143, 243-253	10.3	193
585	Experimental investigation on separation performance of nanofiltration membranes for inorganic electrolyte solutions. <i>Desalination</i> , <b>2002</b> , 145, 115-122	10.3	65
584	Efficient design and optimisation of two-stage NF processes by simplified process simulation. <i>Desalination</i> , <b>2002</b> , 145, 207-215	10.3	9
583	Transport of perchlorate (ClO <sub>4</sub> ) through NF and UF membranes. <i>Desalination</i> , <b>2002</b> , 147, 11-17	10.3	44
582	Modelling the performance of membrane nanofiltration—critical assessment and model development. <b>2002</b> , 57, 1121-1137		480
581	Influence of Ionic Composition on Nitrate Retention by Nanofiltration. <b>2003</b> , 81, 1199-1205		4
580	Effects of operating conditions on the salt rejection of nanofiltration membranes in reactive dye/salt mixtures. <i>Separation and Purification Technology</i> , <b>2003</b> , 33, 283-294	8.3	74
579	A review of pressure-driven membrane processes in wastewater treatment and drinking water production. <b>2003</b> , 22, 46-56		587
578	Retention of a wide variety of organic pollutants by different nanofiltration/reverse osmosis membranes: controlling parameters of process. <i>Journal of Membrane Science</i> , <b>2003</b> , 225, 91-103	9.6	183
577	Dynamic modeling of mass transfer through a nanofiltration membrane using calcium salt in drinking water. <i>Desalination</i> , <b>2003</b> , 152, 275-280	10.3	8
576	Influence of dyes, salts and auxiliary chemicals on the nanofiltration of reactive dye baths: experimental observations and model verification. <i>Desalination</i> , <b>2003</b> , 154, 79-88	10.3	40
575	Concentration polarization in spiral-wound nanofiltration membrane elements. <i>Desalination</i> , <b>2003</b> , 154, 89-99	10.3	7
574	Studies of halide ions mass transfer in nanofiltration—application to selective defluorination of brackish drinking water. <i>Desalination</i> , <b>2003</b> , 157, 127-134	10.3	36
573	Mechanistic equations for membrane substance transport and their identity with Kedem-Katchalsky equations. <b>2003</b> , 103, 117-27		25
572	A phenomenological mass transfer approach in nanofiltration of halide ions for a selective defluorination of brackish drinking water. <i>Journal of Membrane Science</i> , <b>2003</b> , 219, 103-112	9.6	55
571	Temperature effects on sieving characteristics of thin-film composite nanofiltration membranes: pore size distributions and transport parameters. <i>Journal of Membrane Science</i> , <b>2003</b> , 223, 69-87	9.6	139
570	Computer-aided simulation and design of nanofiltration processes. <b>2003</b> , 984, 142-58		1
569	Nanofiltration modeling: the role of dielectric exclusion in membrane characterization. <b>2003</b> , 58, 3303-3326		239

568	Preparation of NO <sub>x</sub> modified PMMA/EGDM composite membrane for the recovery of chromium (VI). <b>2003</b> , 39, 2383-2391		35
567	Comparative evaluation of the results for the synthetic and actual reactive dye bath effluent treatment by nanofiltration membranes. <b>2003</b> , 38, 2209-18		6
566	Studies in the linear regime. <b>2003</b> , 18, 50-169		
565	Reuse of reactive dyehouse wastewater by nanofiltration: process water quality and economical implications. <i>Separation and Purification Technology</i> , <b>2004</b> , 36, 77-85	8.3	72
564	Improvement of a method for the characterization of ultrafiltration membranes by measurements of tracers retention. <i>Journal of Membrane Science</i> , <b>2004</b> , 238, 177-190	9.6	53
563	Nanofiltration thin-film-composite polyesteramide membranes based on bulky diols. <i>Desalination</i> , <b>2004</b> , 161, 25-32	10.3	15
562	Model equations for interactions of hydrated species in transmembrane transport. <i>Desalination</i> , <b>2004</b> , 163, 177-192	10.3	3
561	Transport across liquid membranes containing vitamin A (retinol acetate). <b>2004</b> , 271, 416-8		4
560	Separation of dilute electrolytes in poly(amino acid) functionalized microporous membranes: model evaluation and experimental results. <i>Journal of Membrane Science</i> , <b>2004</b> , 239, 65-79	9.6	20
559	Analysis of modified surface force pore flow model with concentration polarization and comparison with Spiegler-Edem model in reverse osmosis systems. <i>Journal of Membrane Science</i> , <b>2004</b> , 232, 45-62	9.6	38
558	Mathematical modeling of nanofiltration membranes with mixed electrolyte solutions. <i>Journal of Membrane Science</i> , <b>2004</b> , 235, 1-13	9.6	67
557	The role of imperfections in the solute transfer in nanofiltration. <i>Journal of Membrane Science</i> , <b>2004</b> , 239, 9-15	9.6	11
556	Modelling the performance of membrane nanofiltration—Application to an industrially relevant separation. <i>Journal of Membrane Science</i> , <b>2004</b> , 242, 211-220	9.6	60
555	Analysis of parameters affecting boron permeation through reverse osmosis membranes. <i>Journal of Membrane Science</i> , <b>2004</b> , 243, 79-87	9.6	98
554	Treatment of the tannery effluents from a plant near Algiers by nanofiltration (NF): experimental results and modeling. <i>Desalination</i> , <b>2004</b> , 165, 155-160	10.3	14
553	Effect of cross flow velocity, feed concentration, and pressure on the salt rejection of nanofiltration membranes in reactive dye having two sodium salts and NaCl mixtures: model application. <b>2004</b> , 39, 1055-68		9
552	NANOFILTRATION AND REVERSE OSMOSIS MEMBRANES: THEORY AND APPLICATION IN SEPARATION OF ELECTROLYTES. <b>2004</b> , 20,		48
551	Factors affecting the rejection of organic solutes during NF/RO treatment—a literature review. <b>2004</b> , 38, 2795-809		737

550	The liquid membrane hypothesis of drug action. <b>2005</b> , 21, 47-58		
549	Liquid membranes as biomimetic system. <b>2005</b> , 59-123		
548	Role of liquid membranes in drug action [Experimental studies. <b>2005</b> , 21, 124-218		1
547	Removal of salts and dyes by low ZnAl <sub>2</sub> O <sub>4</sub> ·TiO <sub>2</sub> ultrafiltration membrane deposited on support made from raw clay. <i>Separation and Purification Technology</i> , <b>2005</b> , 47, 36-42	8.3	64
546	The characterization of flat composite nanofiltration membranes and their applications in the separation of Cephalexin. <i>Journal of Membrane Science</i> , <b>2005</b> , 247, 37-50	9.6	135
545	Optimal strategy to model the electro-dialytic recovery of a strong electrolyte. <i>Journal of Membrane Science</i> , <b>2005</b> , 260, 90-111	9.6	89
544	Influence of surface charge and solution pH on the performance characteristics of a nanofiltration membrane. <b>2005</b> , 6, 246-250		28
543	Modelling the performance of membrane nanofiltration [recovery of a high-value product from a process waste stream. <b>2005</b> , 60, 1953-1964		43
542	Simulation of ultrafiltration process and application to pilot tests. <i>Desalination</i> , <b>2005</b> , 171, 1-11	10.3	8
541	Separation performance of a nanofiltration membrane influenced by species and concentration of ions. <i>Desalination</i> , <b>2005</b> , 175, 219-225	10.3	130
540	Application of various membranes to remove NOM typically occurring in Korea with respect to DBP, AOC and transport parameters. <i>Desalination</i> , <b>2005</b> , 178, 161-169	10.3	21
539	Effect of pH and conductivity on hindered diffusion of perchlorate ions during transport through negatively charged nanofiltration and ultrafiltration membranes. <i>Desalination</i> , <b>2005</b> , 177, 217-227	10.3	16
538	Nanofiltration of highly concentrated salt solutions up to seawater salinity. <i>Desalination</i> , <b>2005</b> , 184, 315-326	10.3	112
537	Characterization of chemically modified zeolite/clay composite membranes using separation of trivalent cations. <i>Separation and Purification Technology</i> , <b>2005</b> , 41, 83-89	8.3	17
536	Mathematical modeling and simulation of the multiple solutes system for nanofiltration process. <i>Journal of Membrane Science</i> , <b>2005</b> , 253, 103-115	9.6	44
535	Nanofiltration of Magnesium Chloride, Sodium Carbonate, and Calcium Sulphate in Salt Solutions. <b>2005</b> , 40, 3299-3321		22
534	Diffusive and convective transport through hollow fiber membranes for liver cell culture. <b>2005</b> , 117, 309-21		45
533	Nanofiltration theory: good co-ion exclusion approximation for single salts. <b>2005</b> , 109, 5525-40		34

532	Influence of Cross-Linking and Process Parameters on the Separation Performance of Poly(dimethylsiloxane) Nanofiltration Membranes. <b>2005</b> , 44, 3238-3248		41
531	Chapter 2 Water Defluoridation Processes: A Review. Application: Nanofiltration (NF) for Future Large-Scale Pilot Plants. <b>2006</b> , 2, 49-80		11
530	Assessing the Accuracy of Wall Concentration Estimation Based on Averaged Permeate Velocity in Spacer-Filled Reverse Osmosis (RO) Membrane Systems. <b>2006</b> , 45, 8134-8144		3
529	Thermodynamic factors in partitioning and rejection of organic compounds by polyamide composite membranes. <i>Environmental Science &amp; Technology</i> , <b>2006</b> , 40, 7023-8	10.3	40
528	Flux decline in nanofiltration due to adsorption of dissolved organic compounds: model prediction of time dependency. <b>2006</b> , 110, 2957-62		44
527	Effect of Ion Sizes on Separation Characteristics of Nanofiltration Membrane Systems. <b>2006</b> , 19, 1-18		9
526	Membrane Concentration of Liquid Foods. <b>2006</b> , 553-599		
525	Nicht-wässrige Nanofiltration. <b>2006</b> , 497-513		1
524	Hemodialysis and Hemofiltration. <b>2006</b> ,		1
523	Frictional interpretation of thermodynamic transport parameters for porous nanofiltration membranes. <b>2006</b> , 55, 571-587		4
522	Cellular contributions to glomerular size-selectivity. <b>2006</b> , 69, 1295-7		17
521	Investigation of reverse osmosis on the basis of the Kedem-Katchalsky equations and mechanistic transport equations. <i>Desalination</i> , <b>2006</b> , 190, 267-276	10.3	6
520	Determination of the parameters of the Spiegler-Kedem-Katchalsky model for nanofiltration of single electrolyte solutions. <i>Desalination</i> , <b>2006</b> , 198, 335-345	10.3	26
519	Trans-membrane pressure in nanofiltration. <i>Journal of Membrane Science</i> , <b>2006</b> , 286, 69-76	9.6	5
518	Mathematical modeling of fluid and solute transport in hemodialysis and peritoneal dialysis. <i>Journal of Membrane Science</i> , <b>2006</b> , 274, 24-37	9.6	54
517	Theoretical analysis of the performance of composite membrane consisting of the catalytic and nanofiltration layers. <i>Journal of Membrane Science</i> , <b>2006</b> , 280, 65-72	9.6	2
516	Modelling of solute transport in non-aqueous nanofiltration. <i>Journal of Membrane Science</i> , <b>2006</b> , 281, 139-148	9.6	68
515	A mechanistic study on boron rejection by sea water reverse osmosis membranes. <i>Journal of Membrane Science</i> , <b>2006</b> , 286, 269-278	9.6	134

514	Modeling the separation performance of nanofiltration membranes for the mixed salts solution. <i>Journal of Membrane Science</i> , <b>2006</b> , 280, 734-743	9.6	29
513	Sodium chloride rejection by a UF ceramic membrane in relation to its surface electrical properties. <i>Separation and Purification Technology</i> , <b>2006</b> , 49, 122-129	8.3	15
512	A numerical study on concentration polarization and system performance of spiral wound RO membrane modules. <i>Journal of Membrane Science</i> , <b>2006</b> , 271, 38-46	9.6	80
511	Modeling of concentration polarization layer evolution and breakthrough concentrations in dead-end hyperfiltration. <i>Journal of Membrane Science</i> , <b>2006</b> , 285, 376-384	9.6	3
510	Reverse osmosis of nonaqueous solutions through porous silica-zirconia membranes. <b>2006</b> , 52, 522-531		36
509	Desalting of Aqueous Extract of <i>Acanthus ebracteatus</i> Vahl. by Nanofiltration. <b>2006</b> , 41, 455-470		4
508	Performance of Nanofiltration Membranes in the Treatment of Synthetic and Real Seawater. <b>2007</b> , 42, 493-515		22
507	Ion Rejection in Single and Binary Mixed Electrolyte Systems by Nanofiltration: Effect of Feed Concentration. <b>2007</b> , 42, 3071-3084		6
506	Dynamic Modeling of a Simple Reverse Osmosis Desalination Plant for Advanced Control Purposes. <b>2007</b> ,		16
505	Transfer of Monovalent Salts through Nanofiltration Membranes: A Model Combining Transport through Pores and the Polarization Layer. <b>2007</b> , 46, 6752-6761		22
504	Modeling, Simulation, and Experimental Validation for Aqueous Solutions Flowing in Nanofiltration Membrane Channel. <b>2007</b> , 46, 1316-1325		13
503	Prediction of Charge Density for Desal-HL Nanofiltration Membrane from Simulation and Experiment using Different Ion Radii. <b>2007</b> , 42, 43-57		7
502	Effect of temperature on the transport of water and neutral solutes across nanofiltration membranes. <b>2007</b> , 23, 2937-52		60
501	Steric and electrostatic interactions govern nanofiltration of amino acids. <b>2007</b> , 98, 451-61		13
500	Modeling nanofiltration with Nernst-Planck approach and polarization layer. <b>2007</b> , 53, 1952-1969		55
499	Rejection and modelling of sulphate and potassium salts by nanofiltration membranes: neural network and Spiegler-Kedem model. <i>Desalination</i> , <b>2007</b> , 206, 42-60	10.3	93
498	A theoretical approach on membrane characterization: the deduction of fine structural details of asymmetric nanofiltration membranes. <i>Desalination</i> , <b>2007</b> , 206, 107-126	10.3	17
497	Reverse osmosis integrity monitoring. <i>Desalination</i> , <b>2007</b> , 214, 138-149	10.3	32

496	Removal of small trihalomethane precursors from aqueous solution by nanofiltration. <b>2007</b> , 146, 20-9		87
495	Separation of Cr(VI) by zeolite/clay composite membranes modified by reaction with NOx. <i>Separation and Purification Technology</i> , <b>2007</b> , 52, 423-429	8.3	22
494	Diffusive permeabilities and reverse osmosis rejection coefficients for four cellulosic membranes. <b>2007</b> , 28, 209-223		4
493	Neural Networks Simulation of the Filtration of Sodium Chloride and Magnesium Chloride Solutions Using Nanofiltration Membranes. <b>2007</b> , 85, 417-430		38
492	Modeling of the separation performance of nanofiltration membranes and its role in the applications of nanofiltration technology in product separation processes. <b>2007</b> , 1, 208-215		5
491	The removal of reactive dye printing compounds using nanofiltration. <b>2007</b> , 74, 512-518		92
490	Spiral Wound Reverse Osmosis Modules Decomposition into Elementary Units by Analyzing Stimulus Response Experiments: Characterization of the Solute Transfer across the Membrane. <b>2008</b> , 81, 998-1010		
489	Synthesis of charged ultrafiltration poly(styrene- co-divinyl benzene) composite membrane. <b>2008</b> , 110, 210-227		2
488	Synthesis and modeling of composite poly (styrene-co-acrylonitrile) membrane for the separation of chromic acid. <i>Journal of Membrane Science</i> , <b>2008</b> , 307, 37-52	9.6	24
487	Investigation of amphoteric polybenzimidazole (PBI) nanofiltration hollow fiber membrane for both cation and anions removal. <i>Journal of Membrane Science</i> , <b>2008</b> , 310, 557-566	9.6	54
486	Modelling of the pore structure variation with pH for pore-filled pH-sensitive poly(vinylidene fluoride)/poly(acrylic acid) membranes. <i>Journal of Membrane Science</i> , <b>2008</b> , 321, 162-171	9.6	15
485	Application of nanofiltration for the rejection of nickel ions from aqueous solutions and estimation of membrane transport parameters. <b>2008</b> , 160, 70-7		98
484	Multi-objective optimization of RO desalination plants. <i>Desalination</i> , <b>2008</b> , 222, 96-118	10.3	150
483	Equation of rejection curve for membranes with high charge density. <i>Desalination</i> , <b>2008</b> , 233, 267-276	10.3	3
482	Studies on polymeric nanofiltration-based water softening and the effect of anion properties on the softening process. <b>2008</b> , 44, 2244-2252		15
481	Negative rejection of ions in pressure-driven membrane processes. <b>2008</b> , 139, 150-73		54
480	Preparation and characterization of nanofiltration membranes by coating polyethersulfone hollow fibers with sulfonated poly(ether ether ketone) (SPEEK). <i>Journal of Membrane Science</i> , <b>2008</b> , 307, 62-72	9.6	104
479	Novel approach combining physico-chemical characterizations and mass transfer modelling of nanofiltration and low pressure reverse osmosis membranes for brackish water desalination intensification. <i>Desalination</i> , <b>2008</b> , 221, 174-191	10.3	98

478	Nanofiltration Process Efficiency in Water Desalination. <b>2008</b> , 37, 302-324		59
477	Solvent resistant nanofiltration: separating on a molecular level. <b>2008</b> , 37, 365-405		820
476	Evaluation of Hemodialyzers and Dialysis Membranes. <b>2008</b> , 1, 21-35		16
475	MASS TRANSFER MODELS. <b>2008</b> , 1, 36-40		
474	Properties of the glomerular barrier and mechanisms of proteinuria. <b>2008</b> , 88, 451-87		594
473	Synthesis and Modeling of Charged Ultrafiltration Membranes of Poly(styrene-co-divinyl benzene) for the Separation of Chromium(VI). <b>2008</b> , 47, 4236-4250		4
472	Prediction of Nanofiltration Performance by Using Membrane Transport Models for the Separation of Nickel Salts from Aqueous Solutions. <i>Chemical Product and Process Modeling</i> , <b>2008</b> , 3,	1.1	
471	Influence of Membrane Behavior on Contaminant Transport through Geosynthetic Clay Liners. <b>2008</b> ,		2
470	Model Analysis of Separation Performance of Commercial Nanofiltration Membranes Improved by Tannic Acid. <b>2009</b> , 42, 95-106		4
469	Nanotechnology-Based Membranes for Water Purification. <b>2009</b> , 47-58		16
468	An experimental and modeling study of nanofiltration processes for mixed electrolyte solutions. <b>2009</b> , 7, 25-34		4
467	Influence of operating conditions on the retention of nickel in water by nanofiltration. <b>2009</b> , 9, 28-35		4
466	Removal of N-Nitrosamines and Their Precursors by Nanofiltration and Reverse Osmosis Membranes. <b>2009</b> , 135, 788-795		52
465	Separation of dyes using composite carbon membranes. <b>2009</b> , 55, 1712-1722		5
464	Theoretical studies on structural and electrical properties of PES/SPEEK blend nanofiltration membrane. <b>2009</b> , 55, 2081-2093		25
463	Influence of membrane, solute and solution properties on the retention of phenolic compounds in aqueous solution by nanofiltration membranes. <i>Separation and Purification Technology</i> , <b>2009</b> , 66, 194-201	8.3	110
462	Modeling of the retention of atrazine and dimethoate with nanofiltration. <i>Chemical Engineering Journal</i> , <b>2009</b> , 147, 280-286	14.7	11
461	Preparation of nanoporous composite carbon membrane for separation of rhodamine B dye. <i>Journal of Membrane Science</i> , <b>2009</b> , 329, 2-10	9.6	82

460	Coupled 3-D hydrodynamics and mass transfer analysis of mineral scaling-induced flux decline in a laboratory plate-and-frame reverse osmosis membrane module. <i>Journal of Membrane Science</i> , <b>2009</b> , 339, 39-48	9.6	37
459	Rejection of salt mixtures from high saline by nanofiltration membranes. <b>2009</b> , 26, 799-805		33
458	Modeling of batch and semi-batch membrane filtration processes. <i>Journal of Membrane Science</i> , <b>2009</b> , 327, 164-173	9.6	30
457	Modeling of amino acid nanofiltration by irreversible thermodynamics. <i>Journal of Membrane Science</i> , <b>2009</b> , 332, 38-49	9.6	21
456	Relating the pore size distribution of ultrafiltration membranes to dextran rejection. <i>Journal of Membrane Science</i> , <b>2009</b> , 340, 1-8	9.6	48
455	Determination of concentration-dependent transport coefficients in nanofiltration: Experimental evaluation of coefficients. <i>Journal of Membrane Science</i> , <b>2009</b> , 326, 197-204	9.6	34
454	Influence of the polyacrylamide structure on the reverse osmosis performance, surface properties and chlorine stability of the thin-film composite polyamide membranes. <i>Journal of Membrane Science</i> , <b>2009</b> , 326, 205-214	9.6	108
453	Synthesis of novel silica-polyamide nanocomposite membrane with enhanced properties. <i>Journal of Membrane Science</i> , <b>2009</b> , 328, 257-267	9.6	300
452	Modeling permeation of volatile organic molecules through reverse osmosis spiral-wound membranes. <i>Journal of Membrane Science</i> , <b>2009</b> , 330, 40-50	9.6	22
451	Theoretical studies on the morphological and electrical properties of blended PES/SPEEK nanofiltration membranes using different sulfonation degree of SPEEK. <i>Journal of Membrane Science</i> , <b>2009</b> , 334, 30-42	9.6	62
450	Fabrication and characterization of Al <sub>2</sub> O <sub>3</sub> /polyamide composite ultrafiltration membrane for the separation of electrolytes from its aqueous solution. <i>Journal of Membrane Science</i> , <b>2009</b> , 340, 181-191	9.6	32
449	Evaluation of the steric, electric, and dielectric exclusion model on the basis of salt rejection rate and membrane potential measurements. <b>2009</b> , 331, 148-55		35
448	Separation of acetic acid from xylose by nanofiltration. <i>Separation and Purification Technology</i> , <b>2009</b> , 67, 95-102	8.3	79
447	Relation between salt rejection and electrokinetic properties on Shirasu porous glass (SPG) membranes with nano-order uniform pores. <i>Separation and Purification Technology</i> , <b>2009</b> , 69, 87-96	8.3	13
446	Transport of salt mixtures through nanofiltration membranes: Numerical identification of electric and dielectric contributions. <i>Separation and Purification Technology</i> , <b>2009</b> , 69, 225-233	8.3	53
445	Membrane technology for purification of enzymatically produced oligosaccharides: Molecular and operational features affecting performance. <i>Separation and Purification Technology</i> , <b>2009</b> , 70, 1-11	8.3	149
444	Relevance of hindrance factors and hydrodynamic pressure gradient in the modelization of the transport of neutral solutes across nanofiltration membranes. <i>Chemical Engineering Journal</i> , <b>2009</b> , 149, 78-86	14.7	20
443	Separation of binary heavy metals from aqueous solutions by nanofiltration and characterization of the membrane using Spiegler-Kedem model. <i>Chemical Engineering Journal</i> , <b>2009</b> , 150, 181-187	14.7	101



442	Theoretical calculation of reflection coefficients of single salt solutions through charged porous membranes. <i>Desalination</i> , <b>2009</b> , 236, 306-315	10.3	2
441	Characterization and applications of nanofiltration membranes: State of the art. <i>Desalination</i> , <b>2009</b> , 236, 316-326	10.3	46
440	Organo-macromolecular transport relationships for argillaceous membranes at ultra-high hydraulic gradients. <i>Desalination</i> , <b>2009</b> , 239, 175-190	10.3	
439	Theoretical analysis of steady states for ester hydrolysis in an enzymatic membrane reactor with product retention. <i>Desalination</i> , <b>2009</b> , 246, 545-555	10.3	2
438	Separation of dimethyl phenol using a spiral-wound RO membrane [Experimental and parameter estimation studies. <i>Desalination</i> , <b>2009</b> , 243, 170-181	10.3	13
437	Mass transfer of bacterial by-products (BBP) during nanofiltration: characterizations, transport, and sherwood relationships. <i>Desalination</i> , <b>2009</b> , 247, 623-635	10.3	2
436	Rejection behavior of nickel ions from synthetic wastewater containing Na <sub>2</sub> SO <sub>4</sub> , NiSO <sub>4</sub> , MgCl <sub>2</sub> and CaCl <sub>2</sub> salts by nanofiltration and characterization of the membrane. <i>Desalination</i> , <b>2009</b> , 247, 610-622	10.3	28
435	Theoretical analysis of inhibition effect on steady states of enzymatic membrane reactor with substrate and product retention for reaction producing weak acid. <i>Desalination</i> , <b>2009</b> , 249, 1190-1198	10.3	4
434	Effect of SPEEK content on the morphological and electrical properties of PES/SPEEK blend nanofiltration membranes. <i>Desalination</i> , <b>2009</b> , 249, 996-1005	10.3	47
433	Ion-exchange membrane materials: Properties, modification, and practical application. <b>2009</b> , 4, 137-159		83
432	Modeling the permeate transient response to perturbations from steady state in a nanofiltration process. <b>2009</b> , 1, 7-16		5
431	Influence of solute-membrane affinity on rejection of uncharged organic solutes by nanofiltration membranes. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 2400-6	10.3	124
430	Solute coupled diffusion in osmotically driven membrane processes. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 6769-75	10.3	362
429	A new theoretical approach to estimate the specific energy consumption of reverse osmosis and other pressure-driven liquid-phase membrane processes. <b>2009</b> , 3, 111-119		18
428	Evaluation and characterisation of TFC-PA Nanofiltration membrane for the rejection of cadmium from aqueous solutions. <b>2010</b> , 2, 15		2
427	Comparing the Phenomenological and Hydrodynamic Modeling Approaches for Describing the Rejection of Emerging Nonionic Organic Contaminants by a Nanofiltration Membrane. <b>2010</b> , 397-420		1
426	The effect of organic membrane fouling on the properties and rejection characteristics of nanofiltration membranes. <i>Separation and Purification Technology</i> , <b>2010</b> , 74, 44-54	8.3	84
425	Impacts of membrane properties on reactive dye removal from dye/salt mixtures by asymmetric cellulose acetate and composite polyamide nanofiltration membranes. <i>Journal of Membrane Science</i> , <b>2010</b> , 350, 83-91	9.6	171

424	Phenomenological analysis of transport of mono- and divalent ions in nanofiltration. <i>Journal of Membrane Science</i> , <b>2010</b> , 360, 389-396	9.6	49
423	Polyamide-imide nanofiltration hollow fiber membranes with elongation-induced nano-pore evolution. <b>2010</b> , 56, 1481-1494		68
422	Modeling the electric transport of sulfuric and phosphoric acids through anion-exchange membranes. <i>Separation and Purification Technology</i> , <b>2010</b> , 73, 219-229	8.3	12
421	Boron removal by reverse osmosis membranes in seawater desalination applications. <i>Separation and Purification Technology</i> , <b>2010</b> , 75, 87-101	8.3	187
420	SANS study to probe nanoparticle dispersion in nanocomposite membranes of aromatic polyamide and functionalized silica nanoparticles. <b>2010</b> , 351, 304-14		38
419	Treatment of landfill leachates by nanofiltration. <b>2010</b> , 91, 1209-17		45
418	Coupled model of extended Nernst-Planck equation and film theory in nanofiltration for xylo-oligosaccharide syrup. <b>2010</b> , 100, 302-309		21
417	Separation of Cd and Ni from multicomponent aqueous solutions by nanofiltration and characterization of membrane using IT model. <b>2010</b> , 180, 309-15		52
416	Polyelectrolyte multilayer films as backflushable nanofiltration membranes with tunable hydrophilicity and surface charge. <i>Journal of Membrane Science</i> , <b>2010</b> , 349, 268-278	9.6	71
415	Transport, structural, and interfacial properties of poly(vinyl alcohol)/poly sulfone composite nanofiltration membranes. <i>Journal of Membrane Science</i> , <b>2010</b> , 353, 169-176	9.6	66
414	Effect of molecular shape on rejection of uncharged organic compounds by nanofiltration membranes and on calculated pore radii. <i>Journal of Membrane Science</i> , <b>2010</b> , 358, 101-113	9.6	49
413	Mass transport and membrane separations: Universal description in terms of physicochemical potential and Einstein's mobility. <b>2010</b> , 65, 1474-1489		15
412	Nanofiltration of single and mixed salt solutions: Analysis of results using principal component analysis (PCA). <b>2010</b> , 88, 1569-1579		7
411	Inorganic fouling of pressure-driven membrane processes [A critical review]. <i>Desalination</i> , <b>2010</b> , 250, 236-248	10.3	307
410	Membrane transport theory and the interactions between electrolytes and non-electrolytes. <i>Desalination</i> , <b>2010</b> , 252, 17-26	10.3	8
409	Surface properties of ceramic ultrafiltration TiO <sub>2</sub> membranes: Effects of surface equilibria on salt retention. <i>Desalination</i> , <b>2010</b> , 255, 1-8	10.3	39
408	Steady states of an enzymatic membrane reactor with product retention for a system of non-cooperating enzymes [model predictions]. <i>Desalination</i> , <b>2010</b> , 261, 80-88	10.3	2
407	Influence of transport properties of membrane for yield of a reaction producing weak acid in an enzymatic membrane reactor. <i>Desalination</i> , <b>2010</b> , 262, 260-266	10.3	

406	Spiral Wound Reverse Osmosis Membranes for the Recovery of Phenol Compounds-Experimental and Parameter Estimation Studies. <b>2010</b> , 3, 31-36		11
405	Modeling and Simulation of a Cellulose-Acetate Blend Ultrafiltration Membrane using Bovine Serum Albumin Solution. <b>2010</b> , 59, 588-606		1
404	Modeling of solute transport in multi-component solution for reverse osmosis membranes. <b>2010</b> , 15, 20-28		4
403	Analysis of ion transport in nanofiltration using phenomenological coefficients and structural characteristics. <b>2010</b> , 114, 3510-7		57
402	Effect of Cyclic Changes in Temperature and Pressure on Permeation Properties of Composite Polyamide Seawater Reverse Osmosis Membranes. <b>2010</b> , 46, 14-26		8
401	Transport Phenomena in Nanofiltration Membranes. <b>2010</b> , 67-89		2
400	Fundamentals in Reverse Osmosis. <b>2010</b> , 1-22		5
399	Pressure-driven ionic transport through nanochannels with inhomogenous charge distributions. <b>2010</b> , 26, 1214-20		27
398	Review of seawater natural organic matter fouling and reverse osmosis transport modeling for seawater reverse osmosis desalination. <b>2010</b> , 15, 92-107		14
397	Negative Rejection of NaCl in Ultrafiltration of Aqueous Solution of NaCl and KCl Using Sodalite Octahydrate Zeolite Layer Charged Ultrafiltration Membrane. <b>2010</b> , 49, 6539-6546		9
396	Modeling the Rejection Performance of Hollow Fiber Nanofiltration Membranes Modified by Negatively Charged-Modifying Macromolecule. <b>2010</b> ,		
395	Identification, Modelling, and Control of Continuous Reverse Osmosis Desalination System: A Review. <b>2011</b> , 46, 551-560		28
394	Kinetic Modeling and Adequacy of Dialysis. <b>2011</b> ,		3
393	Models to Predict Organic Contaminant Removal by RO and NF Membranes. <b>2011</b> , 3, 40-44		0
392	Techniques for characterization of polyamide thin film composite membranes. <i>Desalination</i> , <b>2011</b> , 282, 78-86	10.3	41
391	Review on modelling and control of desalination system using reverse osmosis. <b>2011</b> , 10, 139-150		11
390	Ion transport in the polyamide layer of RO membranes: Composite membranes and free-standing films. <i>Journal of Membrane Science</i> , <b>2011</b> , 367, 119-126	9.6	42
389	Electrodialytic desalting of model concentrated NaCl brines as such or enriched with a non-electrolyte osmotic component. <i>Journal of Membrane Science</i> , <b>2011</b> , 367, 220-232	9.6	33

388	Kinetic behaviour of sodium and boron in brackish water membranes. <i>Journal of Membrane Science</i> , <b>2011</b> , 368, 86-94	9.6	19
387	Micropollutant sorption to membrane polymers: a review of mechanisms for estrogens. <b>2011</b> , 164, 100-17		181
386	Rejection of dairy salts by a nanofiltration membrane. <i>Separation and Purification Technology</i> , <b>2011</b> , 79, 92-102	8.3	22
385	Integration of Ultrafiltration Unit Operations in Biotechnology Process Design. <b>2011</b> , 34, 673-687		24
384	A transport model considering charge adsorption inside pores to describe salts rejection by nanofiltration membranes. <b>2011</b> , 66, 2823-2832		57
383	Amino acid rejection behaviour as a function of concentration. <b>2011</b> , 164, 118-25		4
382	Experimental investigation on arsenic removal with a nanofiltration pilot plant from naturally contaminated groundwater. <i>Desalination</i> , <b>2011</b> , 274, 1-6	10.3	53
381	Salts retention by nanofiltration membranes: Physicochemical and hydrodynamic approaches and modeling. <i>Desalination</i> , <b>2011</b> , 277, 106-112	10.3	29
380	Pervaporation of methyl ethyl ketone and water mixture: Determination of concentration profile. <i>Desalination</i> , <b>2011</b> , 277, 178-186	10.3	13
379	Solution-diffusion-film model for the description of pressure-driven trans-membrane transfer of electrolyte mixtures: One dominant salt and trace ions. <i>Journal of Membrane Science</i> , <b>2011</b> , 368, 192-201	9.6	73
378	Assessment of dielectric contribution in the modeling of multi-ionic transport through nanofiltration membranes. <i>Journal of Membrane Science</i> , <b>2011</b> , 378, 214-223	9.6	33
377	Pore radius estimation based on organic solute molecular shape and effects of pressure on pore radius for a reverse osmosis membrane. <i>Journal of Membrane Science</i> , <b>2011</b> , 369, 290-298	9.6	47
376	Sublayer structure and reflection coefficient and their effects on concentration polarization and membrane performance in FO processes. <i>Journal of Membrane Science</i> , <b>2011</b> , 376, 214-224	9.6	108
375	Study on polyamide thin-film composite nanofiltration membrane by interfacial polymerization of polyvinylamine (PVAm) and isophthaloyl chloride (IPC). <i>Journal of Membrane Science</i> , <b>2011</b> , 379, 164-173	9.6	78
374	Network modeling for studying the effect of support structure on internal concentration polarization during forward osmosis: Model development and theoretical analysis with FEM. <i>Journal of Membrane Science</i> , <b>2011</b> , 379, 307-321	9.6	70
373	Two-fluid model for the simultaneous flow of colloids and fluids in porous media. <b>2011</b> , 355, 389-95		41
372	Study on BaSiO <sub>3</sub> Solid-Solid Reaction through Irreversible Thermodynamics. <b>2011</b> , 391-392, 1396-1399		
371	Arsenic Removal by Membrane Processes: Modeling and Applications. <b>2012</b> , 348-381		1

370	The Values of Membrane Science and Technology: Introduction and Overview. <b>2012</b> , 1-40			1
369	Over-limiting currents and deionization "shocks" in current-induced polarization: local-equilibrium analysis. <b>2012</b> , 183-184, 68-81			39
368	Separation and estimation of nanofiltration membrane transport parameters for cerium and neodymium. <b>2012</b> , 31, 500-506			13
367	Ion Transfer in and Through Charged Membranes: Structure, Properties, and Theory. <b>2012</b> , 267-335			19
366	Membrane Technology and Environmental Applications. <b>2012</b> ,			17
365	Operating Energy Consumption Analysis of RO Desalting System: Effect of Membrane Process and Energy Recovery Device (ERD) Performance Variables. <b>2012</b> , 51, 14135-14144			18
364	Thermodynamic and energy efficiency analysis of power generation from natural salinity gradients by pressure retarded osmosis. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 5230-9	10.3		250
363	Preparation and performance of novel thermally stable polyamide/PPENK composite nanofiltration membranes. <b>2012</b> , 258, 9047-9053			46
362	Acid stable thin-film composite membrane for nanofiltration prepared from naphthalene-1,3,6-trisulfonylchloride (NTSC) and piperazine (PIP). <i>Journal of Membrane Science</i> , <b>2012</b> , 415-416, 122-131	9.6		62
361	TRANSPORT MODEL FOR NANOFILTRATION AND REVERSE OSMOSIS SYSTEM BASED ON IRREVERSIBLE THERMODYNAMIC. <b>2012</b> , 79-106			
360	Pore-Filled Membranes as Responsive Release Devices. <b>2012</b> , 187-210			
359	Nanofiltration Process Efficiency in Liquid Dyes Desalination. <b>2012</b> ,			1
358	Treatment of Textile Wastewater by Nanofiltration Membranes: A Neural Network Approach. <b>2012</b> , 02,			
357	Optimal design of reverse osmosis-based water treatment systems. <b>2012</b> , 58, 2758-2769			17
356	Modelling of the separation performance and electrokinetic properties of nanofiltration membranes. <b>2012</b> , 31, 111-130			26
355	How to use a multi-ionic transport model to fully predict rejection of mineral salts by nanofiltration membranes. <i>Chemical Engineering Journal</i> , <b>2012</b> , 189-190, 24-31	14.7		44
354	Modelling the swelling and osmotic properties of clay soils. Part I: The phenomenological approach. <b>2012</b> , 51, 32-50			34
353	Thin-film composite membrane formed by interfacial polymerization of polyvinylamine (PVAm) and trimesoyl chloride (TMC) for nanofiltration. <i>Desalination</i> , <b>2012</b> , 288, 98-107	10.3		67

352	Statistical modelling of the interplay between solute shape and rejection in porous membranes. <i>Separation and Purification Technology</i> , <b>2012</b> , 89, 261-269	8.3	7
351	Mechanisms of antibiotic removal by nanofiltration membranes: Model development and application. <i>Journal of Membrane Science</i> , <b>2012</b> , 389, 234-244	9.6	44
350	Effects of feed solution characteristics on the rejection of N-nitrosamines by reverse osmosis membranes. <i>Journal of Membrane Science</i> , <b>2012</b> , 409-410, 66-74	9.6	60
349	An application of the Sano-Nakayama membrane transport model in hollow fiber reverse osmosis desalination systems. <i>Desalination</i> , <b>2013</b> , 311, 95-102	10.3	8
348	Convective transport of boron through a brackish water reverse osmosis membrane. <i>Journal of Membrane Science</i> , <b>2013</b> , 445, 160-169	9.6	30
347	Application of quantitative structure-property relationships (QSPRs) to predict the rejection of organic solutes by nanofiltration. <i>Separation and Purification Technology</i> , <b>2013</b> , 118, 627-638	8.3	17
346	Solution-Diffusion Processes. <b>2013</b> , 1		5
345	Mechanistic Modeling of Transport in Nanofiltration. <b>2013</b> , 1		1
344	Nanofiltration. <b>2013</b> , 1		4
343	Separation of three divalent cations (Cu <sup>2+</sup> , Co <sup>2+</sup> and Ni <sup>2+</sup> ) by NF membranes from pH3 to 5. <i>Desalination</i> , <b>2013</b> , 328, 51-57	10.3	17
342	Solution-Diffusion-Electro-Migration model and its uses for analysis of nanofiltration, pressure-retarded osmosis and forward osmosis in multi-ionic solutions. <i>Journal of Membrane Science</i> , <b>2013</b> , 447, 463-476	9.6	55
341	An explicit solution of the mathematical model for osmotic desalination process. <b>2013</b> , 30, 1691-1699		13
340	Separation performance of multi-components solution by membrane technology in continual diafiltration mode. <i>Desalination</i> , <b>2013</b> , 322, 113-120	10.3	16
339	Optimal SWRO desalination network synthesis using multiple water quality parameters. <i>Journal of Membrane Science</i> , <b>2013</b> , 444, 493-512	9.6	18
338	Recovery of Na <sub>4</sub> EDTA from aqueous solutions using nanofiltration. <i>Separation and Purification Technology</i> , <b>2013</b> , 118, 144-150	8.3	8
337	Effect of pressure on the swelling and fluxes of dense PDMS membranes in nanofiltration: An experimental study. <i>Journal of Membrane Science</i> , <b>2013</b> , 435, 110-119	9.6	41
336	Perfluorinated ion-exchange membranes. <b>2013</b> , 55, 674-698		49
335	N-nitrosamine rejection by nanofiltration and reverse osmosis membranes: The importance of membrane characteristics. <i>Desalination</i> , <b>2013</b> , 316, 67-75	10.3	52

334	Preparation, Characterization, and Performance of Sulfated Chitosan/Polyacrylonitrile Composite Nanofiltration Membranes. <b>2013</b> , 34, 389-399		9
333	A Novel Composite Nanofiltration Membrane Prepared by Interfacial Polymerization of 2,2'-Bis(1-Hydroxyl-1-trifluoromethyl-2,2,2-trifluoroethyl)-4,4'-methylenedianiline and Trimesoyl Chloride. <b>2013</b> , 48, 554-563		8
332	A novel hybrid process of reverse electrodialysis and reverse osmosis for low energy seawater desalination and brine management. <b>2013</b> , 104, 592-602		128
331	Understanding membrane parameters of a forward osmosis membrane based on nonequilibrium thermodynamics. <i>Journal of Membrane Science</i> , <b>2013</b> , 437, 72-81	9.6	20
330	Thin-film composite nanofiltration membranes with improved acid stability prepared from naphthalene-1,3,6-trisulfonylchloride (NTSC) and trimesoyl chloride (TMC). <i>Desalination</i> , <b>2013</b> , 315, 164-172	10.3	33
329	Permeation of organic solutes in water-ethanol mixtures with nanofiltration membranes. <i>Desalination</i> , <b>2013</b> , 315, 83-90	10.3	10
328	Boron removal with UTC-series reverse osmosis filtration. <b>2013</b> , 44, 317-321		5
327	Nanofiltration. <b>2013</b> , 233-258		6
326	Analysis of lead(II) retention from single salt and binary aqueous solutions by a polyamide nanofiltration membrane: Experimental results and modelling. <i>Journal of Membrane Science</i> , <b>2013</b> , 436, 132-144	9.6	59
325	Prediction of single salt rejection by NF membranes: An experimental methodology to assess physical parameters from membrane and streaming potentials. <i>Desalination</i> , <b>2013</b> , 315, 37-45	10.3	22
324	Application of the Spiegler-Kedem-Kachalsky model to the removal of 4-chlorophenol by different nanofiltration membranes. <i>Desalination</i> , <b>2013</b> , 315, 70-75	10.3	32
323	Cellulose acetate hollow fiber nanofiltration membrane with improved permselectivity prepared through hydrolysis followed by carboxymethylation. <i>Journal of Membrane Science</i> , <b>2013</b> , 434, 44-54	9.6	37
322	Systematic investigation on the influence of solutes on the separation behavior of a PDMS membrane in organic solvent nanofiltration. <i>Journal of Membrane Science</i> , <b>2013</b> , 429, 295-303	9.6	61
321	Separation behavior of NF membrane for dye/salt mixtures. <b>2013</b> , 51, 3721-3727		6
320	Osmosis in porous media: A review of recent studies. <b>2013</b> , 170, 299-317		33
319	Modeling the effect of charge density in the active layers of reverse osmosis and nanofiltration membranes on the rejection of arsenic(III) and potassium iodide. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 420-8	10.3	37
318	Organic Solvent Nanofiltration. <b>2013</b> , 1		1
317	Comparison of nonhomogeneous and homogeneous mass transfer in reverse osmosis membrane processes. <b>2013</b> , 51, 6444-6458		3

316	The osmotic pressure model applied to ultrafiltration and diafiltration. 223-252		
315	. <b>2014</b> ,		27
314	Influence of operating conditions on the retention of phenol in water by reverse osmosis SG membrane characterized using Speigler-Kedem model. <b>2014</b> , 52, 1792-1803		4
313	Nanofiltration Theory and Application. <b>2014</b> , 205-253		4
312	Produced water treatment technologies. <b>2014</b> , 9, 157-177		305
311	Membrane behavior of bentonite-amended compacted clay. <b>2014</b> , 54, 329-344		54
310	Modeling weak acids' reactive transport in reverse osmosis processes: A general framework and case studies for SWRO. <i>Desalination</i> , <b>2014</b> , 343, 147-153	10.3	4
309	Influence of solute concentration and dipole moment on the retention of uncharged molecules with nanofiltration. <i>Desalination</i> , <b>2014</b> , 344, 116-122	10.3	17
308	A critical review of transport through osmotic membranes. <i>Journal of Membrane Science</i> , <b>2014</b> , 454, 516-537	9.6	211
307	Enhancing the permselectivity of thin-film composite poly(vinyl alcohol) (PVA) nanofiltration membrane by incorporating poly(sodium-p-styrene-sulfonate) (PSSNa). <i>Journal of Membrane Science</i> , <b>2014</b> , 463, 173-182	9.6	62
306	Effects of water chemistry on structure and performance of polyamide composite membranes. <i>Journal of Membrane Science</i> , <b>2014</b> , 452, 415-425	9.6	34
305	Preparation and characterization of sulfated carboxymethyl cellulose nanofiltration membranes with improved water permeability. <i>Desalination</i> , <b>2014</b> , 338, 74-83	10.3	30
304	Hybrid organosilica membranes and processes: Status and outlook. <i>Separation and Purification Technology</i> , <b>2014</b> , 121, 2-12	8.3	64
303	Potenziale und Herausforderungen in der Implementierung der organophilen Nanofiltration in der Spezialchemie. <b>2014</b> , 86, 594-601		
302	Quantifying the potential of ultra-permeable membranes for water desalination. <b>2014</b> , 7, 1134-1141		227
301	Molecular separation with organic solvent nanofiltration: a critical review. <b>2014</b> , 114, 10735-806		935
300	Energy and thermodynamic analysis of power generation using a natural salinity gradient based pressure retarded osmosis process. <i>Desalination</i> , <b>2014</b> , 350, 86-94	10.3	37
299	Solution-diffusion with defects model for pressure-assisted forward osmosis. <i>Journal of Membrane Science</i> , <b>2014</b> , 470, 323-333	9.6	35



298	Nanotechnology-Based Membranes for Water Purification. <b>2014</b> , 133-154		10
297	Desalination of dye solution utilizing PVA/PVDF hollow fiber composite membrane modified with TiO <sub>2</sub> nanoparticles. <i>Journal of Membrane Science</i> , <b>2014</b> , 471, 118-129	9.6	90
296	Effectiveness-mass transfer units (EMTU) model of a reverse osmosis membrane mass exchanger. <i>Journal of Membrane Science</i> , <b>2014</b> , 458, 189-198	9.6	31
295	Rejection of disinfection by-products by RO and NF membranes: Influence of solute properties and operational parameters. <i>Journal of Membrane Science</i> , <b>2014</b> , 467, 195-205	9.6	81
294	Transport of arsenic in some affected soils of Indian subtropics. <b>2014</b> , 52, 822		3
293	Demineralization of dairy streams and dairy mineral recovery using nanofiltration. <b>2015</b> , 112-138		0
292	Preparation and characterization of a composite nanofiltration membrane from cyclen and trimesoyl chloride prepared by interfacial polymerization. <b>2015</b> , 132, n/a-n/a		10
291	. <b>2015</b> ,		9
290	Application of Coupled Solution-Diffusion Model in Organic Solvent Nanofiltration: Positive and Negative Rejection of Solutes. <b>2015</b> , 150527095459001		
289	Rejection prediction of isopropylantipyrine and antipyrine by nanofiltration membranes based on the Spiegler-Kedem-Batchalsky model. <i>Desalination</i> , <b>2015</b> , 362, 11-17	10.3	8
288	Concentration polarization model of spiral-wound membrane modules with application to batch-mode RO desalination of brackish water. <i>Desalination</i> , <b>2015</b> , 368, 36-47	10.3	25
287	Study on the thin film composite poly(piperazine-amide) nanofiltration membranes made of different polymeric substrates: Effect of operating conditions. <b>2015</b> , 32, 753-760		17
286	Numerical Modeling of Concentration Polarization in Spacer-filled Channel with Permeation across Reverse Osmosis Membrane. <b>2015</b> , 54, 1665-1674		22
285	Theoretical performance of nanofiltration membranes for wastewater treatment. <b>2015</b> , 13, 37-47		18
284	Basic Principles of Simulating Boron Removal in Reverse Osmosis Processes. <b>2015</b> , 285-296		
283	Separation efficiency and stability of thin-film composite nanofiltration membranes in long-term filtration of copper sulphate and sulphuric acid mixture. <b>2015</b> , 53, 1822-1833		4
282	A novel type of polyelectrolyte complex/MWCNT hybrid nanofiltration membranes for water softening. <i>Journal of Membrane Science</i> , <b>2015</b> , 492, 412-421	9.6	80
281	Preparation of a positively charged nanofiltration membrane based on hydrophilic/hydrophobic transformation of a poly(ionic liquid). <b>2015</b> , 3, 12367-12376		36

280	Investigation of cobalt(II) retention from aqueous solutions by a polyamide nanofiltration membrane. <i>Journal of Membrane Science</i> , <b>2015</b> , 490, 46-56	9.6	38
279	Preparation and characterization of TiO <sub>2</sub> -sulfonated polymer embedded polyetherimide membranes for effective desalination application. <i>Desalination</i> , <b>2015</b> , 365, 355-364	10.3	37
278	Predicting Permeate Fluxes and Rejection Rates in Reverse Osmosis and Tight-Nanofiltration Processes. <b>2015</b> , 38, 585-594		7
277	Probing the internal structure of reverse osmosis membranes by positron annihilation spectroscopy: Gaining more insight into the transport of water and small solutes. <i>Journal of Membrane Science</i> , <b>2015</b> , 486, 106-118	9.6	89
276	Integration of nanofiltration and reverse osmosis for metal separation and sulfuric acid recovery from gold mining effluent. <i>Separation and Purification Technology</i> , <b>2015</b> , 154, 11-21	8.3	84
275	Multiscale Simulation Method for Flow and Mass-Transfer Characteristics in a Reverse Osmosis Membrane Module. <b>2015</b> , 54, 11413-11419		2
274	Predictive membrane transport models for Organic Solvent Nanofiltration: How complex do we need to be?. <i>Journal of Membrane Science</i> , <b>2015</b> , 476, 530-553	9.6	50
273	Transport properties of oleuropein through nanofiltration membranes. <b>2015</b> , 94, 342-353		10
272	Process intensification with selected membrane processes. <b>2015</b> , 87, 16-25		48
271	Preparation and water desalination properties of POSS-polyamide nanocomposite reverse osmosis membranes. <i>Journal of Membrane Science</i> , <b>2015</b> , 473, 157-164	9.6	98
270	Bibliography. <b>2016</b> , 257-268		
269	Oil and Gas Production Wastewater: Soil Contamination and Pollution Prevention. <b>2016</b> , 2016, 1-24		71
268	Long-term performance decline in a brackish water reverse osmosis desalination plant. Predictive model for the water permeability coefficient. <i>Desalination</i> , <b>2016</b> , 397, 101-107	10.3	27
267	Fabrication of positively charged nanofiltration membrane via the layer-by-layer assembly of graphene oxide and polyethylenimine for desalination. <b>2016</b> , 387, 521-528		143
266	Molecular dynamic simulations of pressure-driven water transport through polyamide nanofiltration membranes at different membrane densities. <b>2016</b> , 6, 63586-63596		13
265	Implementation of radial basic function networks for the prediction of RO membrane performances by using a complex transport model. <b>2016</b> , 57, 20307-20317		2
264	Solvent-membrane-solute interactions in organic solvent nanofiltration (OSN) for Grignard functionalised ceramic membranes: Explanation via Spiegler-Kedem theory. <i>Journal of Membrane Science</i> , <b>2016</b> , 513, 177-185	9.6	22
263	Nanofiltration performance of SiO <sub>2</sub> -ZrO <sub>2</sub> membranes in aqueous solutions at high temperatures. <i>Separation and Purification Technology</i> , <b>2016</b> , 168, 238-247	8.3	16

262	Modeling of a forward osmosis and a pressure-retarded osmosis spiral wound module using the Spiegler-Kedem model and experimental validation. <i>Separation and Purification Technology</i> , <b>2016</b> , 164, 182-197	8.3	38
261	Selective separation of chloride and sulfate by nanofiltration for high saline wastewater recycling. <i>Separation and Purification Technology</i> , <b>2016</b> , 166, 135-141	8.3	49
260	Modified Kedem-Katchalsky equations for osmosis through nano-pore. <i>Desalination</i> , <b>2016</b> , 399, 47-52	10.3	4
259	Removal of anilinic compounds using the NF-97 membrane: Application of the solution-diffusion and SKK models. <b>2016</b> , 51, 2429-2439		4
258	When plasmonics meets membrane technology. <b>2016</b> , 28, 363003		53
257	Structures of Bordered Pits Potentially Contributing to Isolation of a Refilled Vessel from Negative Xylem Pressure in Stems of <i>Morus australis</i> Poir.: Testing of the Pit Membrane Osmosis and Pit Valve Hypotheses. <b>2017</b> , 58, 354-364		4
256	Investigating the mechanism of nanofiltration separation of glucosamine hydrochloride and N-acetyl glucosamine. <b>2016</b> , 3,		3
255	Polymeric membranes for produced water treatment: an overview of fouling behavior and its control. <b>2016</b> , 32,		12
254	Modeling seawater reverse osmosis system under degradation conditions of membrane performance: assessment of isobaric energy recovery devices and feed pressure control benefits. <b>2016</b> , 57, 20210-20218		4
253	Rejection modeling of ceramic membranes in organic solvent nanofiltration. <i>Journal of Membrane Science</i> , <b>2016</b> , 510, 191-200	9.6	20
252	Using the Spiegler-Kedem model to predict solute rejection in the treatment of industrial UHT condensates by reverse osmosis. <b>2016</b> , 57, 24176-24186		3
251	Prediction of single salt rejection in nanofiltration membranes by independent measurements. <i>Desalination</i> , <b>2016</b> , 382, 1-12	10.3	15
250	Interpreting rejection in SRNF across grafted ceramic membranes through the Spiegler-Kedem model. <i>Journal of Membrane Science</i> , <b>2017</b> , 525, 359-367	9.6	9
249	Nanofiltration for textile dye-water treatment: Experimental and parameter estimation studies using a spiral wound module and validation of the Spiegler-Kedem-based model. <b>2017</b> , 52, 1216-1224		9
248	Concentration-polarization in nanofiltration of low concentration Cr(VI) aqueous solutions. Effect of operative conditions on retention. <b>2017</b> , 150, 243-252		7
247	Ultrafiltration. <b>2017</b> , 325-358		
246	Fundamentals of Membrane Transport Phenomena. <b>2017</b> , 147-180		
245	Reverse Osmosis. <b>2017</b> , 259-295		

244	Improved separation and antifouling properties of thin-film composite nanofiltration membrane by the incorporation of cGO. <b>2017</b> , 407, 260-275		45
243	Scope and limitations of the irreversible thermodynamics and the solution diffusion models for the separation of binary and multi-component systems in reverse osmosis process. <b>2017</b> , 100, 48-79		22
242	Experimental evaluation and semi-empirical modeling of a small-capacity reverse osmosis desalination unit. <b>2017</b> , 122, 243-253		6
241	Multiscale Model for Electrokinetic Transport in Networks of Pores, Part I: Model Derivation. <b>2017</b> , 33, 6205-6219		27
240	Osmotic and diffusio-osmotic flow generation at high solute concentration. II. Molecular dynamics simulations. <b>2017</b> , 146, 194702		26
239	Performance characterization and steady-state modelling of spinning basket membrane module. <b>2017</b> , 52, 2173-2189		2
238	Modeling and optimal operation of batch closed-loop diafiltration processes. <b>2017</b> , 122, 198-210		4
237	Development and permeation properties of SiO <sub>2</sub> -ZrO <sub>2</sub> nanofiltration membranes with a MWCO of . <i>Journal of Membrane Science</i> , <b>2017</b> , 535, 331-341	9.6	13
236	Performances of nanofiltration and low pressure reverse osmosis membranes for desalination: characterization and modelling. <b>2017</b> , 186, 012039		0
235	Removal of phenol from wastewater using spiral-wound reverse osmosis process: Model development based on experiment and simulation. <b>2017</b> , 18, 20-28		17
234	A perspective on reverse osmosis water desalination: Quest for sustainability. <b>2017</b> , 63, 1771-1784		55
233	"Breakthrough" osmosis and unusually high power densities in Pressure-Retarded Osmosis in non-ideally semi-permeable supported membranes. <b>2017</b> , 7, 45168		13
232	Effect of temperature, pH and composition on nanofiltration of mono/disaccharides: Experiments and modeling assessment. <i>Journal of Membrane Science</i> , <b>2017</b> , 533, 57-74	9.6	19
231	Simultaneous rejection of fluoride and Cr(VI) from synthetic fluoride-Cr(VI) binary water system by polyamide flat sheet reverse osmosis membrane and prediction of membrane performance by CFSK and CFSD models. <b>2017</b> , 234, 194-200		26
230	Treatment of Oily Wastewater. <b>2017</b> , 185-267		5
229	Membranes for Kraft black liquor concentration and chemical recovery: Current progress, challenges, and opportunities. <b>2017</b> , 52, 1070-1094		25
228	Energy-efficient seawater desalination and wastewater treatment using osmotically driven membrane processes. <i>Desalination</i> , <b>2017</b> , 413, 86-100	10.3	34
227	Developing nanofiltration membrane based on microporous poly(tetrafluoroethylene) substrates by bi-stretching process. <i>Journal of Membrane Science</i> , <b>2017</b> , 524, 612-622	9.6	18

226	Removal of uranium from ammonium nitrate solution by nanofiltration. <b>2017</b> , 105, 1015-1019		4
225	Colloid-interface interactions initiate osmotic flow dynamics. <b>2017</b> , 533, 147-158		9
224	TFC polyamide NF membrane: characterization, application and evaluation of MTPs and MTC for simultaneous removal of hexavalent chromium and fluoride. <b>2017</b> , 17, 129-136		5
223	A predictive model for spiral wound reverse osmosis membrane modules: The effect of winding geometry and accurate geometric details. <b>2017</b> , 96, 248-265		18
222	Wastewater treatment by spiral wound reverse osmosis: Development and validation of a two dimensional process model. <b>2017</b> , 140, 1429-1443		17
221	Simultaneous rejection of chromium(VI) and fluoride [Cr(VI) and F] by nanofiltration: Membranes characterizations and estimations of membrane transport parameters by CFSK model. <b>2017</b> , 5, 45-53		18
220	Trace ions rejection tuning in NF by selecting solution composition: Ion permeances estimation. <i>Chemical Engineering Journal</i> , <b>2017</b> , 308, 126-134	14.7	21
219	Kinetics and energetics trade-off in reverse osmosis desalination with different configurations. <i>Desalination</i> , <b>2017</b> , 401, 42-52	10.3	47
218	2.4 Fundamentals in Reverse Osmosis. <b>2017</b> , 79-94		
217	Non-equilibrium Thermodynamic Model of a Highly Permeable Forward Osmosis Membrane. <b>2017</b> , 50, 618-631		4
216	Membrane processes. <b>2017</b> , 2,		
215	Membrane Thermodynamics for Osmotic Phenomena. <b>2017</b> ,		
214	Forward Osmosis Membranes under Null-Pressure Condition: Do Hydraulic and Osmotic Pressures Have Identical Nature?. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 3556-3566	10.3	20
213	Laboratory assessment of semi-permeable properties of a natural sodium bentonite. <b>2018</b> , 55, 1611-1631		18
212	Membrane-based purification of optically pure D-lactic acid from fermentation broth to poly(D-lactide) polymer. <i>Journal of Membrane Science</i> , <b>2018</b> , 551, 180-190	9.6	16
211	Reduction of Pb(II) in water to safe levels by a small tubular membrane nanofiltration plant. <b>2018</b> , 20, 329-343		4
210	Mass transport modeling of natural organic matter (NOM) and salt during Nanofiltration of inorganic colloid-NOM mixtures. <i>Desalination</i> , <b>2018</b> , 429, 60-69	10.3	5
209	Preparation and characterization of a novel thermally stable thin film composite nanofiltration membrane with poly (m-phenyleneisophthalamide) (PMIA) substrate. <i>Journal of Membrane Science</i> , <b>2018</b> , 550, 36-44	9.6	41

208	Revisiting the recent applications of nanofiltration in food processing industries: Progress and prognosis. <b>2018</b> , 73, 12-24		55
207	Experimental and theoretical study of nanofiltration of weak electrolytes: SO <sub>4</sub> <sup>2-</sup> /HSO <sub>4</sub> <sup>-</sup> /H <sup>+</sup> system. <i>Journal of Membrane Science</i> , <b>2018</b> , 550, 389-398	9.6	13
206	Simulation and sensitivity analysis of spiral wound reverse osmosis process for the removal of dimethylphenol from wastewater using 2-D dynamic model. <b>2018</b> , 193, 140-157		5
205	Mass transfer coefficient of tubular ultrafiltration membranes under high-flux conditions. <b>2018</b> , 64, 1778-1782		5
204	Simulation and optimisation of spiral-wound reverse osmosis process for the removal of N-nitrosamine from wastewater. <b>2018</b> , 133, 168-182		10
203	Progress in transport theory and characterization method of Reverse Osmosis (RO) membrane in past fifty years. <i>Desalination</i> , <b>2018</b> , 434, 2-11	10.3	22
202	Polyamide-crosslinked graphene oxide membrane for forward osmosis. <i>Journal of Membrane Science</i> , <b>2018</b> , 545, 11-18	9.6	100
201	On negative rejection of uncharged organic solutes in forward osmosis. <i>Journal of Membrane Science</i> , <b>2018</b> , 548, 22-31	9.6	6
200	Optimum operating condition of a hollow fiber reverse osmosis desalination system. <b>2018</b> , 5, 1463898		
199	Molecular Simulation and Analysis of Sorption Process toward Theoretical Prediction for Liquid Permeation through Membranes. <b>2018</b> , 122, 12211-12218		5
198	Assessment and Modeling of Nanofiltration of Acid Mine Drainage. <b>2018</b> , 57, 14727-14739		11
197	Implementation of Spiegler-Kedem and Steric Hindrance Pore Models for Analyzing Nanofiltration Membrane Performance for Smart Water Production. <i>Membranes</i> , <b>2018</b> , 8,	3.8	8
196	Experimental investigation on the performance of a small reverse osmosis unit. <b>2018</b> , 40, 1		3
195	Membrane Distillation, Forward Osmosis, and Pressure-Retarded Osmosis Through Polymer Membranes. <b>2018</b> , 323-346		1
194	Insights into the rejection of barium and strontium by nanofiltration membrane from experimental and modeling analysis. <i>Journal of Membrane Science</i> , <b>2018</b> , 564, 742-752	9.6	18
193	Analysis of surrogate bacterial cell transport to nanofiltration membranes: Effect of salt concentration and hydrodynamics. <i>Separation and Purification Technology</i> , <b>2018</b> , 207, 498-505	8.3	1
192	Treatment of coastal well water using ultrafiltration-nanofiltration-reverse osmosis to produce isotonic solutions and drinking water: Fouling behavior and energy efficiency. <b>2018</b> , 200, 1053-1064		19
191	Microfiltration, ultrafiltration, nanofiltration, reverse osmosis, and forward osmosis. <b>2018</b> , 25-70		17

190	An overview of process systems engineering approaches for process intensification: State of the art. <b>2018</b> , 133, 160-210		158
189	Salt rejection behavior of carbon nanotube-polyamide nanocomposite reverse osmosis membranes in several salt solutions. <i>Desalination</i> , <b>2018</b> , 443, 165-171	10.3	23
188	Construction of MoS <sub>2</sub> composite membranes on ceramic hollow fibers for efficient water desalination. <i>Journal of Membrane Science</i> , <b>2019</b> , 592, 117369	9.6	16
187	Theory of Ion and Water Transport in Electron-Conducting Membrane Pores with pH-Dependent Chemical Charge. <b>2019</b> , 12,		11
186	Energy Savings in Desalination Technologies: Reducing Entropy Generation by Transport Processes. <b>2019</b> , 141,		6
185	On the application of the Spiegler-Kedem model to forward osmosis. <b>2019</b> , 1,		2
184	Predictive modeling of a commercial spiral wound seawater reverse osmosis module. <b>2019</b> , 148, 440-450		5
183	Nanofiltration of Succinic Acid in Strong Alkaline Conditions. <i>Membranes</i> , <b>2019</b> , 9,	3.8	3
182	Practical aspects of batch RO design for energy-efficient seawater desalination. <i>Desalination</i> , <b>2019</b> , 470, 114097	10.3	21
181	A Mathematical Modeling of the Reverse Osmosis Concentration Process of a Glucose Solution. <b>2019</b> , 7, 271		9
180	Theory of tracer diffusion in concentrated hard-sphere suspensions. <b>2019</b> , 870, 1105-1126		3
179	Nanofiltration Theory and Application. <b>2019</b> , 163-207		
178	Theoretical and Experimental Investigations of Double Emulsion Preparation by Ultrasonication. <b>2019</b> , 58, 8220-8230		11
177	Modelling nanofiltration of electrolyte solutions. <b>2019</b> , 268, 39-63		40
176	Reverse osmosis desalination: A state-of-the-art review. <i>Desalination</i> , <b>2019</b> , 459, 59-104	10.3	410
175	Advances in the sustainable technologies for water conservation in textile industries. <b>2019</b> , 175-194		6
174	Hydrothermal stability and permeation properties of TiO <sub>2</sub> -ZrO <sub>2</sub> (5/5) nanofiltration membranes at high temperatures. <i>Separation and Purification Technology</i> , <b>2019</b> , 212, 1001-1012	8.3	11
173	The Impact of Thermoplasmonics in Membrane Technology. <b>2019</b> , 55-80		1

172	From "Black Box" to a Real Description of Overall Mass Transport through Membrane and Boundary Layers. <i>Membranes</i> , <b>2019</b> , 9,	3.8	1
171	Flow-induced shift of the Donnan equilibrium for ultra-sensitive mass transport measurement through a single nanochannel. <b>2019</b> , 151, 244503		1
170	Filtration of Uncharged Solutes: An Assessment of Steric Effect by Transport and Adsorption Modelling. <b>2019</b> , 11, 2173		4
169	. <b>2019</b> ,		11
168	On the understanding and feasibility of "Breakthrough" Osmosis. <b>2019</b> , 9, 16464		6
167	Energy Efficiency of Desalination: Fundamental Insights from Intuitive Interpretation. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 76-84	10.3	68
166	Phenomenological prediction of desalination brines nanofiltration through the indirect determination of zeta potential. <i>Separation and Purification Technology</i> , <b>2019</b> , 210, 746-753	8.3	14
165	Materials and Engineering Design of Interfacial Polymerized Thin Film Composite Nanofiltration Membrane for Industrial Applications. <b>2019</b> , 47-83		4
164	Modelling of Ion Transport in Electromembrane Systems: Impacts of Membrane Bulk and Surface Heterogeneity. <b>2019</b> , 9, 25		25
163	Rejection of pharmaceutical compounds from surface water by nanofiltration and reverse osmosis. <i>Separation and Purification Technology</i> , <b>2019</b> , 212, 171-179	8.3	53
162	Consolidated vs new advanced treatment methods for the removal of contaminants of emerging concern from urban wastewater. <b>2019</b> , 655, 986-1008		319
161	Dynamic simulation of the reverse osmosis process for seawater using LabVIEW and an analysis of the process performance. <b>2019</b> , 121, 294-305		11
160	Reverse Osmosis. <b>2019</b> , 497-503		3
159	Modeling of the variations of permeate flux, concentration polarization, and solute rejection in nanofiltration system. <b>2019</b> , 65, 1076-1087		11
158	Electric field assisted ion adsorption with nanoporous SWCNT electrodes. <b>2019</b> , 25, 1035-1041		2
157	Ultrafiltration of non-spherical molecules. <i>Journal of Membrane Science</i> , <b>2019</b> , 570-571, 322-332	9.6	8
156	IntroductionDo RO Membranes Have Pores?. <b>2019</b> , 1-24		
155	RO Membrane Transport. <b>2019</b> , 91-116		



154	Numerical model-based analysis of energy-efficient reverse osmosis (EERO) process: Performance simulation and optimization. <i>Desalination</i> , <b>2019</b> , 453, 10-21	10.3	11
153	Computational framework for modeling membrane processes without process and solution property simplifications. <i>Journal of Membrane Science</i> , <b>2019</b> , 573, 682-693	9.6	16
152	Cross-linked thin poly(vinyl alcohol) membrane supported on polysulfone in tea polyphenol separation. <b>2019</b> , 54, 343-359		1
151	Application of neural networks in membrane separation. <b>2020</b> , 36, 265-310		16
150	Second ISSMGE R. Kerry Rowe Lecture: On the intrinsic, state, and fabric parameters of active clays for contaminant control. <b>2020</b> , 57, 311-336		9
149	Removal of model dyes on charged UF membranes: Experiment and simulation. <b>2020</b> , 240, 124940		17
148	Direct preparation of dialysate from tap water via osmotic dilution. <i>Journal of Membrane Science</i> , <b>2020</b> , 598, 117659	9.6	5
147	A review on thermally stable membranes for water treatment: Material, fabrication, and application. <i>Separation and Purification Technology</i> , <b>2020</b> , 236, 116223	8.3	11
146	A multi-scale model for fluid transport through a bio-inspired passive valve. <b>2020</b> , 152, 014502		1
145	Reverse osmosis membrane element integrity evaluation using imperfection model. <i>Desalination</i> , <b>2020</b> , 476, 114175	10.3	7
144	Ion Selectivity in Brackish Water Desalination by Reverse Osmosis: Theory, Measurements, and Implications. <b>2020</b> , 7, 42-47		28
143	Integrated Membrane Process for the Treatment and Reuse of Residual Table Olive Fermentation Brine and Anaerobically Digested Sludge Centrate. <i>Membranes</i> , <b>2020</b> , 10,	3.8	2
142	An integrated membrane process for preparation of lithium hydroxide from high Mg/Li ratio salt lake brine. <i>Desalination</i> , <b>2020</b> , 493, 114620	10.3	16
141	Recent advances on the treatment technology of oil and gas produced water for sustainable energy industry-mechanistic aspects and process chemistry perspectives. <b>2020</b> , 4, 100049		23
140	Application of irreversible thermodynamic model to a hollow fiber forward osmosis module in sodium chloride aqueous solution system. <i>Desalination</i> , <b>2020</b> , 486, 114458	10.3	4
139	Study of transfer of alcohol (methanol, ethanol, isopropanol) during nanofiltration in water/alcohol mixtures. <i>Journal of Membrane Science</i> , <b>2020</b> , 601, 117907	9.6	5
138	Reduced-order modelling of concentration polarization with varying permeation: Analysis of electro-osmosis in membranes. <i>Desalination</i> , <b>2020</b> , 495, 114677	10.3	3
137	Modeling and Experiments of Binary Electrolytes in the Presence of Diffusion, Migration, and Electro-Osmotic Flow. <b>2020</b> , 14,		5

136	Removal of Different Dye Solutions: A Comparison Study Using a Polyamide NF Membrane. <i>Membranes</i> , <b>2020</b> , 10,	3.8	4
135	Analysis of model parameters for the prediction of mass transfer resistance for forward osmosis and pressure-retarded osmosis configurations. <i>Desalination</i> , <b>2020</b> , 493, 114641	10.3	2
134	A generic reverse osmosis model for full-scale operation. <i>Desalination</i> , <b>2020</b> , 490, 114509	10.3	6
133	Experimental and theoretical characterization of commercial nanofiltration membranes for the treatment of ion exchange spent regenerant. <i>Journal of Membrane Science</i> , <b>2020</b> , 606, 118117	9.6	13
132	Assessing the Performance of Thin-Film Nanofiltration Membranes with Embedded Montmorillonites. <i>Membranes</i> , <b>2020</b> , 10,	3.8	7
131	Screening ultrafiltration membranes to separate lactose and protein from sheep whey: application of simplified model. <b>2020</b> , 57, 3193-3200		5
130	Membrane fouling by clay suspensions during NF-like forward osmosis: Characterization via optical coherence tomography. <i>Journal of Membrane Science</i> , <b>2020</b> , 602, 117965	9.6	9
129	Experimental and Theoretical Analysis of Lead Pb and Cd Retention from a Single Salt Using a Hollow Fiber PES Membrane. <i>Membranes</i> , <b>2020</b> , 10,	3.8	7
128	Membrane selection for the Gold mining pressure-oxidation process (POX) effluent reclamation using integrated UF-NF-RO processes. <b>2020</b> , 8, 104056		7
127	Retention of atenolol from single and binary aqueous solutions by thin film composite nanofiltration membrane: Transport modeling and pore radius estimation. <b>2020</b> , 271, 111005		8
126	Improved performance of thin-film nanofiltration membranes fabricated with the intervention of surfactants having different structures for water treatment. <i>Desalination</i> , <b>2020</b> , 481, 114352	10.3	43
125	Intrinsic Nanoscale Structure of Thin Film Composite Polyamide Membranes: Connectivity, Defects, and Structure-Property Correlation. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 3559-3569	10.3	66
124	Effect of feed conditions and added solutes on the performance of membrane nanofiltration of succinic acid solutions. <b>2020</b> , 37, 283-295		4
123	Removal of micropollutants from water by commercially available nanofiltration membranes. <b>2020</b> , 720, 137474		22
122	Model of Forward Osmosis through composite/asymmetric membranes: Effects of support inhomogeneity and solution non-ideality. <i>Journal of Membrane Science</i> , <b>2020</b> , 602, 117950	9.6	3
121	Hybrid ceramic membranes for organic solvent nanofiltration: State-of-the-art and challenges. <i>Journal of Membrane Science</i> , <b>2020</b> , 599, 117839	9.6	36
120	Ion partitioning and permeation in charged low-T* membranes. <b>2020</b> , 277, 102107		21
119	Negative retention by the nanofiltration of aqueous biomass hydrolysates derived from wood pulping. <i>Separation and Purification Technology</i> , <b>2020</b> , 242, 116773	8.3	3

118	Nanocomposite membranes embedded with dopamine-melanin nanospheres for enhanced interfacial compatibility and nanofiltration performance. <i>Separation and Purification Technology</i> , <b>2020</b> , 242, 116816	8.3	14
117	Effective stress jump across membranes. <b>2020</b> , 892,		3
116	Reverse osmosis modeling, simulation, and optimization. <b>2020</b> , 187-206		
115	Nanofiltration of saline oil-water emulsions: Combined and individual effects of salt concentration polarization and fouling by oil. <i>Journal of Membrane Science</i> , <b>2021</b> , 617, 118607	9.6	6
114	Rejection of per- and polyfluoroalkyl substances (PFASs) in aqueous film-forming foam by high-pressure membranes. <b>2021</b> , 188, 116546		8
113	Pore model for nanofiltration: History, theoretical framework, key predictions, limitations, and prospects. <i>Journal of Membrane Science</i> , <b>2021</b> , 620, 118809	9.6	23
112	A novel UiO-66/PSF-composite membrane for the rejection of multiple antibiotics: Numerical simulation and experiment verification. <b>2021</b> , 269, 128686		4
111	Organic solvent mixture separation during reverse osmosis and nanofiltration by a perfluorodioxole copolymer membrane. <i>Journal of Membrane Science</i> , <b>2021</b> , 618, 118663	9.6	5
110	Effect of the operating conditions on a nanofiltration process to separate low-molecular-weight phenolic compounds from the sugars present in olive mill wastewaters. <b>2021</b> , 148, 428-436		10
109	Reverse Osmosis Desalination. <b>2021</b> , 79-100		0
108	Groundwater Remediation of Volatile Organic Compounds Using Nanofiltration and Reverse Osmosis Membranes-A Field Study. <i>Membranes</i> , <b>2021</b> , 11,	3.8	2
107	Solvent transport properties of POSS nanocomposites. <b>2021</b> , 405-419		
106	Theoretical Analysis of a Mathematical Relation between Driving Pressures in Membrane-Based Desalting Processes. <i>Membranes</i> , <b>2021</b> , 11,	3.8	1
105	Membranes with a dual structure constituted of titania, zirconia, and both as thin-film selective layers coating the polyacrylonitrile platform. <b>2021</b> , 70, 303-316		
104	Artifact of "Breakthrough" osmosis: comment on the local Spiegler-Kedem-Katchalsky equations with constant coefficients. <b>2021</b> , 11, 5051		0
103	Arsenic removal from water by nanofiltration membrane: potentials and limitations. <b>2021</b> , 16, 291-319		5
102	Separation performance and mechanism of the novel modified polyether sulfone composite nanofiltration membrane for the detection on dissolved organic nitrogen. <b>2021</b> , 93, 1748-1761		0
101	A universal transportation model for reverse osmosis systems. <b>2021</b> , 148, 107264		2

100	Modeling Nanofiltration of Electrolyte Solutions *. <b>2021</b> , 183-241		
99	History of Nanofiltration Membranes from 1960 to 1990. <b>2021</b> , 1-34		1
98	Organic Solvent Nanofiltration. <b>2021</b> , 889-932		
97	Modeling of hydrated cations transport through 2D MXene (Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> ) membranes for water purification. <i>Journal of Membrane Science</i> , <b>2021</b> , 631, 119346	9.6	9
96	Removal of emerging contaminants in water treatment by nanofiltration and reverse osmosis. <b>2022</b> , 605-628		1
95	Mass transport analysis of a hollow fiber forward osmosis module via two-layer membrane model derived from the irreversible thermodynamics. <b>2022</b> , 247, 116703		0
94	Osmotic membrane under spacer-induced mechanical compression: Performance evaluation and 3D mechanical simulation for module optimization. <i>Journal of Membrane Science</i> , <b>2022</b> , 641, 119875	9.6	0
93	Characterization Methods for Quality Control of Nanopore and Nanochannel Membranes. <b>2006</b> , 203-225		1
92	Biophysics of Ultrafiltration and Hemofiltration. <b>1996</b> , 114-145		29
91	Haemodialysers and Associated Devices. <b>1996</b> , 188-230		9
90	Hemodialyzers and related devices. <b>2004</b> , 273-299		1
89	Transport phenomena in membrane separations. <b>2000</b> , 9-18		1
88	Quantitative Analysis of Protein Transport in the Arterial Wall. <b>1981</b> , 287-355		21
87	Transport Behaviour of Asymmetric Cellulose Acetate Membranes in Dialysis and Hyperfiltration. <b>1974</b> , 233-257		2
86	Permeation Mechanism for a Thermo-Sensitive Switching-Functional Composite Membrane of Porous Glass and Hydrogel. <b>1991</b> , 173-181		1
85	Surface Forces in Transport Phenomena. <b>1987</b> , 369-431		3
84	Retention Mechanisms in Nanofiltration. <b>1998</b> , 117-125		4
83	Streaming Potentials During Hyperfiltration. <b>1971</b> , 619-630		18

82	The Concentration-Clamp Method for Transport Measurements in Membranes. <b>1971</b> , 679-692		7
81	Removal of Emerging Contaminants in Water Treatment by Nanofiltration and Reverse Osmosis. <b>2008</b> , 103-125		6
80	Transport of Water and Nonelectrolytes Across Red Cell Membranes. <b>1979</b> , 1-57		5
79	Determinants of Fluid and Solute Removal Rates During Hemofiltration. <b>1986</b> , 17-39		16
78	Technical Foundations of Renal Prostheses. <b>1987</b> , 187-217		1
77	Membrane Desalination of Agricultural Drainage Water. <b>2014</b> , 303-341		2
76	Biophysics of Ultrafiltration and Hemofiltration. <b>1989</b> , 300-326		19
75	Membrane Separations: Mechanisms and Models. <b>1989</b> , 367-391		2
74	Selectivity in Membrane Filtration. <b>1986</b> , 343-366		1
73	Biophysics of Ultrafiltration and Hemofiltration. <b>1983</b> , 242-264		11
72	Transport in Membranes. <b>1991</b> , 145-197		2
71	Ultrafiltration with peritoneal dialysis. <b>1985</b> , 159-177		3
70	Membrane Separation Processes. <b>2002</b> , 437-474		12
69	Nonequilibrium Thermodynamics and Its Application to Bioenergetics. <b>1971</b> , 4, 1-79		34
68	Pressure-Driven Membrane Processes and Wastewater Renovation. <b>1977</b> , 129-189		1
67	Hyperfiltration (Reverse Osmosis). <b>1980</b> , 401-560		9
66	Influences of temperature on the retention of PPCPs by nanofiltration membranes: Experiments and modeling assessment. <i>Journal of Membrane Science</i> , <b>2020</b> , 599, 117817	9.6	23
65	Machine-based learning of predictive models in organic solvent nanofiltration: Solute rejection in pure and mixed solvents. <i>Separation and Purification Technology</i> , <b>2020</b> , 248, 117046	8.3	4

64	Application of Irreversible Thermodynamics to Hollow Fiber Reverse Osmosis Modules. <b>2015</b> , 48, 427-435		1
63	Reverse Osmosis Performance at High Pressure with High Water Recovery.. <b>2000</b> , 33, 414-419		2
62	A Study of Solute Concentration at the Boundary Layer of a Hemodiafiltration Membrane. <b>2013</b> , 39, 433-438		2
61	Application of response surface methodology in pes/speek blend NF membrane for dyeing solution treatment. <b>2010</b> , 1, 49-60		15
60	Solute Transport Across the Peritoneal Membrane. <b>2002</b> , 13, S84-S91		23
59	Removal of Emerging Contaminants from Water and Wastewater Using Nanofiltration Technology. 72-91		1
58	What makes filtration with membranes so fascinating?. <b>2000</b> , 19-40		
57	Modeling Applied To Environmental Geotechnics. <b>2010</b> , 57-89		
56	???-?????????.?????????.. <b>2011</b> , 36, 204-210		
55	Design of Medical Membrane and its Performance when Contacting Blood. <i>Seikei-Kakou</i> , <b>2011</b> , 23, 255-260		
54	The Role of PSE Community in Meeting Sustainable Freshwater Demand of Tomorrow's World via Desalination. <i>Computer Aided Chemical Engineering</i> , <b>2012</b> , 31, 91-98	0.6	1
53	Therapeutic Removal of Uremic Toxins by Peritoneal Dialysis. 331-357		0
52	Bibliography and Further Reading. 307-322		
51	Polarization at Membrane-Solution Interfaces in Reverse Osmosis (Hyperfiltration). <b>1976</b> , 277-298		1
50	SELECTIVITY OF POLYELECTROLYTE MEMBRANES. <b>1977</b> , 187-192		
49	Ultrafiltration. <b>1979</b> , 135-154		1
48	Physikalische Grundlagen des Stofftransportes durch Membranen. <b>1979</b> , 15-55		
47	Transport Equations and Coefficients of Reverse Osmosis and Ultrafiltration Membranes. <b>1986</b> , 447-454		

46	Measurement and Interpretation of Friction Coefficients of Water and Ions in Membrane Polymers. <b>1986</b> , 39-53		
45	References. <b>1986</b> , 249-259		
44	Membranes: Ultrafiltration and Nanofiltration. 4114-4133		
43	Chapter 1 Introduction. <b>2016</b> , 1-14		
42	1 Desalination. <i>Green Chemistry and Chemical Engineering</i> , <b>2017</b> , 1-68		2
41	Membrane Permeability Threshold for Osmotic Power Plant Efficiency. <i>Journal of Contemporary Urban Affairs</i> , <b>2017</b> , 1, 49-53	0.3	
40	Characterization and modeling of the polarization phenomenon to describe salt rejection by nanofiltration. <i>4open</i> , <b>2018</b> , 1, 5	0.8	1
39	Evaporation of a Saltwater Film in a Vertical Channel and Comparison With the Case of the Freshwater. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , <b>2020</b> , 142,	2.6	1
38	Molecular Filtration Through Membranes. <b>1983</b> , 109-119		
37	Water and Salt Transport in Two Cation-Exchange Membranes. <b>1983</b> , 395-459		
36	Fabrication of a novel composite nanofiltration membrane with excellent acid resistance and water flux via the selective bond dissociation method. <i>Journal of Membrane Science</i> , <b>2022</b> , 643, 120012	9.6	0
35	Removal of Emerging Contaminants from Water and Wastewater Using Nanofiltration Technology. <b>2020</b> , 697-716		
34	Nitrate removal studies on polyurea membrane using nanofiltration system [membrane characterization and model development. <i>Chemical Product and Process Modeling</i> , <b>2020</b> ,	1.1	0
33	Flow Rate Prediction for a Semi-permeable Membrane at Low Reynolds Number in a Circular Pipe. <i>Transport in Porous Media</i> , <b>2022</b> , 141, 185	3.1	
32	Mapping the desalination journal: A systematic bibliometric study over 54 years. <i>Desalination</i> , <b>2022</b> , 526, 115535	10.3	3
31	High-pressure membrane filtration processes for separation of Per- and polyfluoroalkyl substances (PFAS). <i>Chemical Engineering Journal</i> , <b>2022</b> , 431, 134023	14.7	0
30	Integrating nanoclay intercalated with interlayers of cationic surfactant into thin-film nanocomposite nanofiltration membranes to improve performance and antifouling property. <i>Separation and Purification Technology</i> , <b>2022</b> , 285, 120360	8.3	0
29	Transport phenomena in reverse osmosis/nanofiltration membranes. <b>2022</b> , 49-90		

28	Tutorial review of reverse osmosis and electrodialysis. <i>Journal of Membrane Science</i> , <b>2022</b> , 647, 120221	9.6	8
27	Recovery of low molecular weight compounds from alkaline pretreatment liquor via membrane separations. <i>Green Chemistry</i> ,	10	0
26	Mechanism and performance relevance of nanomorphogenesis in polyamide films revealed by quantitative 3D imaging and machine learning.. <i>Science Advances</i> , <b>2022</b> , 8, eabk1888	14.3	1
25	Experimental Study and Mathematical Modeling of a Nanofiltration Membrane System for the Recovery of Polyphenols From Wine Lees.. <i>Membranes</i> , <b>2022</b> , 12,	3.8	0
24	A high stability GO nanofiltration membrane preparation by co-deposition and crosslinking polydopamine for rejecting dyes.. <i>Water Science and Technology</i> , <b>2022</b> , 85, 1783-1799	2.2	1
23	A Superstructure Based Optimization Approach for Regeneration Reuse of Water Network: Optimal Design of a Detailed Nanofiltration Regenerator Network. <i>Frontiers in Chemical Engineering</i> , <b>2022</b> , 4,	1	
22	Microporous Matrimid/Pim-1 Thin Film Composite Membranes with Narrow Pore Size Distribution Used for Precise Molecular Separation in Organic Solvents. <i>SSRN Electronic Journal</i> ,	1	
21	Exploring the pressure change of reverse osmosis filtration: Time-course pressure curves and a novel model for mechanism study and NEWater application. <i>Separation and Purification Technology</i> , <b>2022</b> , 294, 121239	8.3	1
20	Applying Transition-State Theory to Explore Transport and Selectivity in Salt-Rejecting Membranes: A Critical Review.. <i>Environmental Science &amp; Technology</i> , <b>2022</b> ,	10.3	4
19	Separation mechanism, selectivity enhancement strategies and advanced materials for mono-/multivalent ion-selective nanofiltration membrane. <b>2022</b> , 2, 100032		3
18	Modeling of RO desalination process. <b>2022</b> , 153-222		
17	Comprehensive simulation to uncover the ideal properties of a hollow fiber forward osmosis membrane module for the seawater desalination process. <i>Desalination</i> , <b>2022</b> , 538, 115923	10.3	
16	Phase Equilibria of Methane /TBAC mixed Hydrates in the Presence of Produced Water.		0
15	A Comparative Analysis of Statistical Models and Mathematics in Reverse Osmosis Evaluation Processes as a Search Path to Achieve Better Efficiency. <b>2022</b> , 14, 2485		1
14	A super-hydrophilic partially reduced graphene oxide membrane with improved stability and antibacterial properties. <b>2022</b> , 86, 1426-1443		0
13	Reverse Osmosis Modeling Study of Lead and Arsenic Removal from Drinking Water in Tarija and La Paz, Bolivia. <b>2022</b> , 10, 1889		0
12	Selectivity of artificial water channel-polyamide composite membranes towards inorganic contaminants. <b>2022</b> , 121019		0
11	Analyzing transport in ceramic membranes for organic solvent nanofiltration using Maxwell-Stefan theory. <b>2022</b> , 264, 118133		0



- 10 Reverse Osmosis Membrane System: Core Process of SWRO. **2022**, 315-739 ○
- 9 Controllable preparation of novel Edge-valley shaped poly(p-phenylene terephthamide) (PPTA) hollow fiber nanofiltration membrane for thermal dye/salt wastewater separation. **2022**, 50, 103251 ○
- 8 Microporous Matrimid/PIM-1 Thin Film Composite Membranes with Narrow Pore Size Distribution used for Molecular Separation in Organic Solvents. 2200826 ○
- 7 Mass Transport of Dye Solutions through Porous Membrane Containing Tannic Acid/Fe<sup>3+</sup> Selective Layer. **2022**, 12, 1216 ○
- 6 Modifications of petroleum industry effluent treatment Method: An approach for quality improvement of process water for ASP flooding and chemical EOR. **2023**, ○
- 5 Nanofiltration for treatment of Western Australian bore water for mineral processing operations: A pilot scale study. **2023**, 52, 103484 ○
- 4 Tailoring the specific crosslinking sites of graphene oxide framework nanosheets for controlled nanofiltration of salts and dyes. **2023**, 395, 136280 ○
- 3 Organic solvent nanofiltration with nanoparticles aggregation based on electrostatic interaction for molecular separation. **2023**, 673, 121409 ○
- 2 Theory for salt transport in charged reverse osmosis membranes: Novel analytical equations for desalination performance and experimental validation. **2023**, 557, 116580 ○
- 1 Treatment of Uranyl Nitrate Solution by Nanofiltration. 1-7 ○