

TABLE OF CONTENT

P 01	A DENSITY FUNCTIONAL THEORY STUDY ON V-BASED METAL ALLOYS USED IN HYDROGEN SEPARATION MEMBRANES	10
	J. Evtimova, G. De Luca, E. Drioli	
P 02	NANOPOROUS SEPARATION MEMBRANES FROM MICROPHASE-SEPARATED BLOCK COPOLYMERS	11
	J. Wieczorek, M. Ulbricht	
P 03	ENHANCEMENT OF ESTERIFICATION REACTION OF DIETHYL TARTRATE USING PERVAPORATION	12
	A. Krasieński, P. Wierzba	
P 04	INTEGRATED MEMBRANE PROCESSES FOR WATER RECLAMATION IN FOOD INDUSTRY	13
	N.Kabay, S.Özgöz, S.Ötleş, M.Yüksel	
P 05	THE WETTING PHENOMENA STUDY IN MEMBRANE DISTILLATION	14
	P. Yazgan-Birgi, M. I. H. Ali, H. A. Ararat	
P 06	GAS TRANSPORT PROPERTIES OF NOVEL MIXED MATRIX MEMBRANES MADE OF MODIFIED TITANATE NANOTUBES AND PBI OR PPO	15
	V. Giel, J. Peter, D. Popelková, J. Kredatusová, M. Perchacz	
P 07	MEMBRANE HYBRID SYSTEM FOR TWO-STEP BIOPRODUCTION OF CHEMICAL SPECIALTIES	16
	M. Mihal, I. Cervenansky, J. Markos	
P 08	NANOFILTRATION IN DIAFILTRATION MODE – THE EFFECTIVE METHOD FOR DESALINATION OF CHROMIUM(III) SOLUTION	17
	B. Kaźmierczak, A. Kowalik-Klimczak, S. Adach, P. Religa	
P 09	REMOVAL OF ZINC FROM AQUEOUS SOLUTIONS BY NANOFILTRATION	18
	V. Kočanová, J. Cuhorka, L. Dušek, P. Mikulášek	
P 10	PHOTOCATALYTIC TREATMENT OF WASTEWATERS CONTAINING PHARMACEUTICAL COMPOUNDS	19
	V. Trousil, Z. Blažková, E. Slehová, J. Palarčík, O. Machalický, J. Cakl	
P 11	NOVEL ELECTROLYTES FOR LITHIUM-ION BATTERIES BASED ON PHOSPHONIUM IONIC LIQUIDS	20
	B. Galajdová, J. Žitka, M. Paidar, K. Bouzek	

P 12	INTEGRATION OF PRODUCTS OF WASTE SODIUM SULFATE ELECTRODIALYSIS WITH BIPOLAR MEMBRANE INTO TECHNOLOGY OF URANIUM BENEFICIATION	21
	J. Kroupa, J. Čákl, J. Kinčl, F. Toman	
P 13	SEPARATION OF SICCONIC ACID FROM POST-FERMENTED SOLUTIONS USING BIPOLAR ELECTRODIALYSIS TECHNIQUE	22
	J. Antczak, M. Szczygiełda, K. Prochaska	
P 14	ANAEROBIC MEMBRANE BIOREACTOR FOR WATER REUSE AND ENERGY RECOVERY	23
	M. Sukopová, A. Bogdan, X. Martínez, M. Calderer, G. Serra, J. Svojitka	
P 15	THE EFFECT OF IONIC STRENGTH ON SELECTED PROPERTIES OF RALEX ION-EXCHANGE MEMBRANES	24
	H. Jaroszek, P. Dydo	
P 16	PREPARATION OF POLYANILINE MODIFIED ACTIVATED CARBON ELECTRODES FOR CAPACITIVE DEIONIZATION	25
	A. Siekierka, M. Bryjak	
P 17	ELECTROKINETIC ENERGY CONVERSION USING NANOPOROUS IONCONDUCTIVE MEMBRANES	26
	D. N. Ø.-Munck, J. Catalano, A. Bentien	
P 18	TRANSPORT AND MECHANICAL PROPERTIES OF HYBRID MATERIALS BASED ON MF-4SC MEMBRANE AND CARBON NANOTUBES	27
	I. A. Prikhno, E. Yu. Safronova, A. B. Yaroslavl'tsev	
P 19	OSMOTIC WATER TRANSPORT ACROSS ION-EXCHANGE MEMBRANES	28
	K. Mitko, A. Jakóbič-Kolon	
P 20	WATER SORPTION PROPERTY OF NAFION	29
	Y. Li, Q. T. Nguyen, K. Fatyeyeva and S. Marais	
P 21	PURIFICATION OF BACKFLOW FLUIDS AFTER HYDRAULIC FRACTURING OF POLISH GAS SHALES	30
	A. Abramowska, D. Gajda, K. Kiegiel, A. Miśkiewicz, G. Zakrzewska-Kołodziejczak	
P 22	POLYMER-IONIC LIQUIDS-AG⁺ COMPOSITE MEMBRANES FOR PROPANE/PROPYLENE SEPARATION	31
	R. Zarca, A. Ortiz, D. Gorri, I. Ortiz	

P 23	PURIFICATION OF OLIVE MILL WASTEWATER AND RECOVERY OF BIOPHENOLS USING AN INTEGRATED MEMBRANE PROCESS	32
	F. Bazzarelli, T. Poerio, R. Mazzei, L. Giorno	
P 24	REMOVAL OF SULPHATES FROM BRACKISH WATER BY NF	33
	E. Laskowska, P. Dydo, M. Turek	
P 25	MATHEMATICAL MODELLING OF MEMBRANE DISTILLATION	34
	V. Perfilov, V.Fila	
P 26	IN SITU MODIFICATION OF MEMBRANE BY FUNCTIONALIZED HYDRATED ZIRCONIUM OXIDE FOR REVERSE ELECTRODIALYSIS (RED)	35
	D. V. Golubenko, Yu. A. Karavanova, A. B. Yaroslavtsev	
P 27	ROLE OF THE MEMBRANE TYPE IN MICROBIAL FUEL CELLS: EFFECT OF PEM REPLACEMENT WITH PVDF ON SIGNAL STABILITY AND ENERGY EFFICIENCY	36
	L. Koók, T. Rózsenberszki, P. Bakonyi, N. Nemestóthy, K. Bélafi-Bakó	
P 28	SYNTHESIS AND CHARACTERIZATION OF HIGHLY SELECTIVE CATION-CONDUCTIVE MEMBRANES	37
	M.B. Kristensen, S. Haldrup, J. Rask, J. Catalano, A. Bentien	
P 29	ELECTROMEMBRANE REGENERATION OF MONOETHANOLAMINE	38
	S. Bazhenov, E. Grushevenko, V. Vasilevsky, E. Novitsky, V.Vasilyeva, A.Volkov	
P 30	APPLICATION OF ELECTRODIALYSIS TO FERRIC IONS SEPARATION FROM MODEL ZINC ELECTROPLATING BATH	39
	D. Babilas, P. Dydo	
P 31	GAS TRANSPORT PROPERTIES OF A NOVEL POLYIMIDE AND ITS ENHANCED POLYIMIDE-ZEOLITIC IMIDAZOLATE FRAMEWORK: ZIF-8 MIXED MATRIX MEMBRANE	40
	M. Z. Ahmad, V. Fila, P. Sysel	
P 32	PERVAPORATION DESULFURIZATION OF GASOLINE – EFFICIENCY OF DIFFERENT SULFUR COMPOUNDS REMOVAL	41
	K. Rychlewska, K. Konieczny	
P 33	PHOSPHORUS RECOVERY FROM SEWAGE SLUDGE ASHES USING ELECTRODIALYSIS	42
	R. Parés Viader, P. E. Jensen, L. M. Ottosen	