

TABLE OF CONTENT

MICROFILTRATION MEMBRANES BASED ON NANOFIBRES	9
Mariana Z. Fonseca, Jan Kinčl	
SEPARATION OF SALTS FROM POLYOL SOLUTIONS	11
Lenka Jonisová, Tomáš Kotala	
DAIRY PROCESSING TECHNOLOGY OF WHEY PROTEIN CONCENTRATE AND THE LACTOSE	12
Arthur Merkel, Jiří Ečer	
RO CONCENTRATE TREATMENT BY ED TECHNOLOGY TO INCREASE WATER RECOVERY AND BRINE MANAGEMENT IN MIDDLE EAST	13
Andre C. Prado, Jan Kinčl	
COMPETITIVE ABILITY OF ACCREDITED AND UNACCREDITED CHEMISTRY LABORATORIES IN CZECH REPUBLIC	15
Elena Shapovalova, Viktoria Jánská	
CHARACTERIZATION OF EDBM-Z/2X MODULE BY SUBSTITUTION OF LACTATE ACID	16
Martina Šubrtová, Marek Doležel	
TREATMENT OF COOLING TOWER BLOWDOWN USING ELECTRODIALYSIS	17
Petra Vidlářová, Petra Křížová	
NEW APPROACH IN MEMBRANE SURFACE MODIFICATION BY NANOSILVER	18
Ondřej Dlask, Jan Dolina, Lukáš Dvořák	
BIOCIDE MODIFICATION OF ULTRAFILTRATION MEMBRANES USING NANOFIBER STRUCTURES	19
Jan Dolina, Tomáš Jiříček, Tomáš Lederer	
THE IMPACT OF FLOW DISTRIBUTOR WIDTH ON INTERNAL LEAKAGES IN ED STACK	20
Dominik Kašuba, Ladislav Zich, Natália Václavíková	
INFLUENCE OF TEMPERATURE ON ED PROCESS ON LABORATORY UNIT EDR-Z/10-0.8	21
Miroslav Soukup, Eliška Stránská	
INORGANIC SALTS TRANSPORT INTENSITY THROUGH ION-EXCHANGE MEMBRANES	22
Kristýna Weinertová, Jiří Ečer	
THE EFFECT OF FEED PRETREATMENT ON MEMBRANE MICROFILTRATION OF TITANIUM DIOXIDE DISPERSIONS WITH CERAMIC TUBULAR MEMBRANES	23
Miroslav Grulich, Petr Mikulášek	
CHARACTERISATION OF BIPOLAR ION SELECTIVE MEMBRANES	25
Tereza Jadrná, Martin Paidar, Jaromír Hnát	

LONG-TERM STUDY OF CO₂ SORPTION IN PIM-1	26
Marek Lanč, Karel Friess, J.C. Jansen, G. Clarizia	
MINE WATER AS THE SOURCE FOR WATER TREATMENT PLANT	27
Veronika Matúšková, Jitka Chromíková, Petra Malíková, Jan Thomas, Lenka Volavková	
OPTIMIZATION STUDY OF MEMBRANE ELECTROLYZER FOR VANADIUM ELECTROLYTES PREPARATION	28
Jiří Vrána, Petr Mazúr, Jaromír Pcedič, Jan Dundálek, Juraj Kosek	
A REVIEW OF ALCOHOL-FREE BEER PRODUCTION	29
Karolína Jastřembská	
THE TREATMENT OF THE SPECIFIC WASTEWATER IN PULP AND PAPER INDUSTRY	30
Bohumila Petrůjová, Nataliya Savchuk	
PREPARATION AND MEASUREMENT OF ELECTRIC RESISTANCE OF CARBON FIBER FOR USE IN ELECTROCHEMISTRY	31
Dagmar Boháčová, Vojtěch Fajstavr	
REDUCING OF THE HARDNESS OF DRINKING WATER BY ELECTRODIALYSIS WITH BIPOLAR MEMBRANES	32
Barbora Fojtová, Radek Halama	
EFFECT OF STACK CONFIGURATION OF ELECTRODIALYSIS WITH BIPOLAR MEMBRANE ON ACHIEVABLE CONCENTRATION OF SODIUM HYDROXIDE	33
Jan Kroupa, Jan Kinčl, Jiří Cakl, František Toman	
KINETIC STUDY OF INDUSTRIALLY AVAILABLE ION EXCHANGE MATERIALS FOR ELECTRODEIONIZATION PROCESS	34
Daniel Golubenko, Jan Křivčík	
THE MEASUREMENT OF KINEMATIC AND INTRINSIC VISCOSITY OF POLYPHENYLENE OXIDE SOLUTIONS	35
Jan Vyšohlíd, Robert Válek	
EVALUATION METHODOLOGY FOR RHEOLOGICAL PROPERTIES OF POLYMER AND ITS COMPOSITES	36
Martina Vyoralová, Jan Křivčík	
THE IMPACT OF MEMBRANE POISONS ON MEMBRANE PROPERTIES	37
Ivana Maštalská, Robert Válek	
THERMAL STABILITY OF ION EXCHANGE RESINS IN DIFFERENT IONIC FORMS	39
Lucie Zárybnická, Eliška Stránská	
METHODOLOGY PROCESSING OF THE PARTICLE SIZE DISTRIBUTION USING ELECTRON MICROSCOPY	40
Kateřina Kábrtová, Gabriela Danihelová	

MEASUREMENT OF PERMSELECTIVITY OF ION-EXCHANGE MEMBRANES IN DIFFERENT CONCENTRATION GRADIENT	41
Kateřina Nečasová, Eliška Stránská	
STUDY OF THE VOLTAGE INFLUENCE ON THE SELECTIVITY OF ELECTRODIALYSIS PROCESS	42
Martin Špitalský, David Neděla	
ION-EXCHANGE MEMBRANES REINFORCED WITH SHORT INORGANIC FIBRES	43
Edith Mawunya Kutorglo, Robert Válek	
HYDRODYNAMIC MODELING AND INFLUENCE OF SPACER ON ELECTRODIALYSIS PROCESS: COMSOL-ASSISTED STUDY	44
Sagar Bhatta, Vojtěch Fajstavr	
DEVELOPMENT AND FEASIBILITY STUDY OF CARBON FIBER- PEEK MATRIX COMPOSITE ELECTRODE FOR ELECTRODIALYSIS	45
Tanmoy K. Deb, Michal Amrich	