



Contents

Volume 301

*Special issue devoted to the 15th Conference on Micropollutants in Human Environment
14–16 September 2022, Czestochowa, Poland*

Part II (Part I is published in Volume 288, March 2023)

Risk estimation method of secondary water pollution in water supply system I. Piegdoń, B. Tchórzewska-Cieślak (Poland)	1
PFAS per- and polyfluoroalkyl new compounds in the Drinking Water Directive – screening studies of surface and underground water resources M. Włodarczyk-Makula, I. Zimoch, J. Natonek, S. Kręcichwost (Poland)	14
Performance of filters applied for removal of microplastics from water – testing methodology A. Bogdanowicz, A. Krasieński, M. Żubrowska-Sudoł (Poland)	23
Potential ecological risk index of bottom sediments from small water reservoirs A. Sałata, Ł. Bąk, J. Górski, K. Chmielowski (Poland)	33
The impact of ultrasonic field on the pharmacological residues biodegradation I. Zawieja, M. Próba, L. Wolny, M. Zabochnicka (Poland).....	42
Drugs used in COVID-19 therapy and their effects on the environment H. Ahmed, E. Felis (Poland)	52
Application of an integrated process for the removal of organic compounds of the phenols group from water J. Piekutin, U. Kotowska, M. Puchlik, W. Polińska, A. Dobkowska (Poland)	63
Water contamination with metabolites of the herbicide chloridazon and the possibility of their elimination in the technological process of water treatment A. Pruss, A. Kociuba, A. Przybylska, A. Zgoła-Grześkowiak, R. Frankowski, J. Kupczyk (Poland)	71
Degradation of selected triazole fungicides in constructed wetlands with application of biopreparation K. Ignatowicz, J. Łozowicki, B. Łozowicka, J. Piekarski (Poland)	83
Influence of the bioreactor operating mode and wastewater composition on the structure of microbial communities in activated sludge and abundance and activity of polyphosphate and glycogen accumulating organisms A. Muszyński, M. Załęska-Radziwiłł (Poland)	91
Sequential algorithm of building the regression-classification model for total nitrogen simulation: application of machine learning K. Barbusiński, B. Szelaż, A. Białek, E. Łazuka, E. Popławska, J. Szulżyk-Cieplak (Poland), R. Babko (Ukraine), G. Łagód (Poland)	106
Primary cells as a source of environmental micropollutants and the method of comprehensive recovery of useful components from them E. Siedlecka (Poland)	115
Water purification sludge as a substrate in metal bioleaching T. Kamizela, M. Kowalczyk (Poland)	125
Effect of sewage sludge liming on drug-resistant bacteria of the Enterobacteriaceae family Ł. Pasoń, E. Stańczyk-Mazanek (Poland)	135
Analysis the potential of online tools to support the design of constructed wetlands T. Bergier, A. Włodyka-Bergier (Poland), A.E. Turcios, J. Papenbrock (Germany), R. Miglio (Peru), J.I. Cifuentes, P. Rivera, A. Barrera (Guatemala), O. Hulyi (Germany), G. Pignataro (Uruguay)	143
Research on the possibility of using moving bed biofilm reactors for treating car wash wastewater A. Włodyka-Bergier, R. Mazur, Z. Kowalewski, T. Bergier (Poland)	150

Heavy metal speciation in municipal sewage sludge depending on treatment method J. Wiater, M. Sulewska (Poland)	159
Hybrid conditioning methods for dewatering stabilised sewage sludge P. Wolski (Poland)	173
Increase in efficiency of separating pollution from sewage sludge through the pressure filtration process M. Kowalczyk, T. Kamizela (Poland)	181
Assessment of the chemical composition and mobility of selected heavy metals in sewage sludge from zinc and lead metallurgy M. Nocoń, I. Korus, K. Loska (Poland)	190
Separation of chosen heavy metals from multi-component mixtures and galvanic wastewater in adsorption on unmodified and modified magnetite I. Korus (Poland)	197
Comparative efficiency of phosphorus removal from supernatants by coagulation process B. Macherzyński, M. Wszelaka-Rylik, M. Włodarczyk-Makuła, M. Osiak, A. Pietrzak, B. Bień, A. Poniatowska (Poland)	209
Analysis of the effect of sandy soil amendment with biochar on its physical and chemical properties and the quantity and quality of biomass yield of energy crops E. Stańczyk-Mazanek (Poland)	216
Optimization of methylene blue and povidone-iodine adsorption conditions on activated biochar from sunflower husk pyrolysis B. Jabłońska, M. Gliniak (Poland)	228
Reduction of wastewater pollution using the technologies for heat recovery from wastewater in buildings – a review of available cases N. Aleksić, V. Šušteršič, N. Jurišević (Serbia), R. Kowalik, A. Ludynia (Poland)	242
Method of evaluation of the transport properties in polymeric membrane systems using the Nr hybrid form of Kedem-Katchalsky-Peuser formalism A. Ślęzak, I. Ślęzak-Prochazka, S.M. Grzegorzczyn, K. Batko, W.M. Bajdur, M. Włodarczyk-Makuła (Poland)	256
Comparison of the efficiency of organic compounds decomposition in sewage sludge using selected physical, chemical and biological methods I. Zawieja (Poland)	277
Biogas production from waste food as an element of circular bioeconomy in the context of water protection M. Zabochnicka, L. Wolny, I. Zawieja, F.D. Lozano Sanchez (Poland)	289
Author Index	296