

## CONTENTS

### *Soil Chemistry*

Zdzisław Ciećko, Andrzej Cezary Żołnowski, Monika Madaj, Grażyna Wasiaśk, Janusz Lisoński, Elżbieta Rolką, The Long-Term Impact of Ameliorating Doses of Hard Coal Fly Ash on Shaping the Content of Selected Microelements in Agricultural Soil . . . . .	1
Jakub Kostecki, Michał Drab, Róża Wasylewicz, Andrzej Greinert, Barbara Walczak, Dariusz Królik, The State of Soil Contaminated with Nickel in the Former Sanitary Zone of the Głogów Copper Smelter . . . . .	13
Beata Kuźemska, Wiesław Wierniak, Dawid Jarzemko, Zinc and Copper Fractions in Soils Contaminated with Nickel . . . . .	21
Adam Łukowski, Józefa Wiatr, The Content of Total Cadmium and its Fractions in Arable Land of the Podlasie Province . . . . .	31
Barbara Walczak, Jakub Kostecki, Róża Wasylewicz, Tomasz Lassota, Andrzej Greinert, Michał Drab, The Content of Lead in Soils of Allotment Gardens in Zielona Góra, Poland . . . . .	41
Gabriela Barančíková, Jarmila Makovníková, Comparison of Two Methods of Soil Organic Carbon Determination . . . . .	47
Jolanta Kwiatkowska-Malinia, The Comparison of the Structure of Humic Acids from Soil Amended with Different Sources of Organic Matter . . . . .	57
Maciej Markiewicz, Łukasz Mędryk, Sławomir S. Gonciarz, Soil Organic Matter Status in Agricultural Soil Sequence of Former Shoreline of Disappearing Sumowskie Lakes, North-Eastern Poland . . . . .	65
Zbigniew Mazur, Stanisław Sienniewicz, Teofil Mazur, The Influence of Multi-Year Organic and Mineral Fertilisation on the Physicochemical Properties of Lessive Soil . . . . .	79
Andrzej Płak, Jacek Chodorowski, Irena A. Pidek, Radosław Dobrowolski, Selected Geochemical Criteria in Mire Profiles of Poręby Wojsławskie (Sandomierz Basin, Poland SE) . . . . .	91
Ewa Rosia, Bożena Dębska, Magdalena Banach-Szott, Erika Tobiasová, Use of HPLC, Py-GCMS, FTIR Methods in the Studies of the Composition of Soil Dissolved Organic Matter . . . . .	101
Natalija O. Ryženko, S. V. Kavetsky, Volodymyr M. Kavetsky, Heavy Metals (Cd, Pb, Zn, and Cu) Uptake by Spring Barley in Polluted Soils . . . . .	111