



Bulgarian Soil Science Society

**BULGARIAN
JOURNAL
OF SOIL
SCIENCE®**

2021

Volume 6

Issue 1

e-ISSN: 2367-9212

ISSN: 2534-8787

BULGARIAN JOURNAL OF SOIL SCIENCE®

(Peer Reviewed Open Access Journal)

Published by Bulgarian Soil Science Society

Editor-in-Chief
Prof. Metodi Teoharov

Executive-Editor
Prof. Irena Atanassova

Editorial Board

Prof. Rattan Lal
Prof. Rainer Horn
Prof. Evgeny Shein
Prof. Pandi Zdruli
Prof. Milan Mesič
Prof. Dimitranka Stoycheva
Prof. Zornitza Popova
Prof. Radka Donkova

Prof. Ludmila Malinova
Prof. Veneta Krasteva
Assoc. prof. Zdravka Petkova
Assoc. prof. Rada Povova
Assoc. prof. Milena Kercheva
Assoc. prof. Neli Gadzhalska
Assist. prof. Yonita Perfanova

Technical Editor - Pre-print - Web Support
Assoc. prof. Biser Hristov



The Executive Board of the Bulgarian Soil Science Society has decided to begin publishing Bulgarian Journal of Soil Science in relation to the International Year of Soils 2015, as a web-based, free, and open-access international scientific journal. The editorial advisory board consists of international researchers and specialists in the field of soil science and other related sciences.

We are confident that Bulgarian Journal of Soil Science will unite the research of specialists and scientists in soil science from all over the world, as well as help them in the processes of their scientific integration. Bulgarian Journal of Soil Science is an international open-access, web-based scientific journal dedicated to the publication and discussion of high-quality research in the field of soil sciences. Bulgarian Journal of Soil Science publishes scientific research that contributes to the understanding of soil and its interaction with humans and the entire earth system. The scope of the journal includes all topics relevant to the study of soil science as a discipline. The journal publishes original papers in specific topic sections on global and regional, theoretical and experimental studies concerning the problems of genesis, geography, physics, chemistry, biology, fertility, management, conservation, and remediation of soils.

Author instructions can be found on the official webpage and in the journal.

<http://www.bsss.bg/Journal.html> e-mail: journal@bsss.bg e-ISSN: 2367-9212 ISSN: 2534-8787

CONTENTS

VOLUME : 6

ISSUE : 1

PAGES : 1 – 103

	<i>Soil Genesis and Classification</i>	
1	Genesis of Soils with Anthropogenic Influences and their Classification. <i>Metodi Teoharov, Ivaylo Kirilov</i>	3 – 8
	<i>Biological Factors and Soil Biodiversity</i>	
2	Influence of the Red Wood Ant <i>Formica lugubris</i> Zetterstedt (Hymenoptera: Formicidae) on the Surrounding Forest Soil Influence of the Red Wood Ant on the Forest Soil. <i>Angelos Tsikas, Paraskevi Karanikola, Michail Orfanoudakis</i>	9 – 17
	<i>Soil Reduction Potential and Sorption Properties</i>	
3	Ionic Mobility of Cations as Affected by Redox Status of Two Different Soil Textures. <i>G.O. Dayo-Olagbende and B.S. Ewulo</i>	18 – 32
	<i>Humus Formation and Soil Organic Matter</i>	
4	Influence of Forest Vegetation on Organic Matter Composition after Restoration of Mining Spoils in the Town of Pernik. <i>Vania Kachova</i>	33 – 41
	<i>Agrotechnics and Parameterization of Soil Conditions</i>	
5	Influence of Agro-Technical Treatments on Some Physical and Agrochemical Parameters of Haplic Vertisols. <i>Vanya Lozanova, Ivan Dimitrov</i>	42 – 58
	<i>Irrigation and Soil Degradation</i>	
6	Erosion Processes Due to Sprinkler Irrigation <i>Nelly Gadajalska, Rossitza Petrova, Snejan Bozhkov, Viktoriya Kancheva</i>	59 - 64
	<i>Design and Experimental Fertilization</i>	
7	Assessment and Analysis of Designs for Fertilizer Experiments <i>Alexander N. Sadovski</i>	65 – 77
	<i>Manure and Soil Protection</i>	
8	The Effects of Chicken Manure Digestates on the Removal of Diesel Range Organics from Petroleum Products Polluted Soils <i>S. U. Ogboje, J. E. Ukpebor, E. E. Ukpebor,</i>	78 – 95
	<i>In Memoriam</i>	
	<i>Prof. Dr. Ivan Atanasov Petkov</i>	96 – 97
	<i>Anniversary</i>	
	<i>Prof. Dr. Rayna Dilkova, at 90th Years Old</i>	98 – 99
	Instructions for Authors	100 – 103