

CONTENTS

V. Slavova, Application of mobile fluorescence spectroscopy as a method in the determination of varietal differences in black radish (<i>Raphanus sativus</i> L. var. <i>Niger</i>) during storage under uncontrolled conditions	5
N. O. Appazov, M. I. Syzdykbayev, A. N. Appaz, E. A. Nazarov, K. Kh. Darmagambet, G. T. Balykbayeva, B. B. Abzhalelov, G. Sh. Askarova, Yu. A. Kim, Microwave activation of isovaleric acid monoglyceride synthesis and its antimicrobial activity	9
V. Slavova, Application of mobile fluorescence spectroscopy as a method for the analysis of representatives of different varieties of carrots (<i>Daucus carota</i>) during storage under uncontrolled conditions	14
<i>Selected papers presented on the Seventh International Scientific Conference Alternative Energy Sources, Materials and Technologies - AESMT'24, 14 - 15 May, 2024, Sofia, Bulgaria</i>	
D.N. Kolev, Increasing the energy efficiency of combustion processes using contact economizer systems and finned tube heat exchanger	21
A. Brusov, M. Azoulay, G. Orr, G. Golan, Influence of a weak pulsed magnetic field on the recovery and recrystallization in aluminum	27
A. Auce, A. Jermuss, A. Rucins, I. Auce, I.A. Horns, Solar and heat pump hybrid heated greenhouse in Latvia: energy storage and CO ₂ reduction	32
S. Bolegenova, A. Askarova, A. Georgiev, M. Beketayeva, S. Bolegenova, V. Maximov, N. Adilbayev, Selection of the optimal kinetic scheme for the formation of nitrogenous substances in the simulation of low-quality coal combustion	38
R. Plowens, M. Baraniak, K. Lota, J. Baraniak, M. Bajsert, G. Lota, carbon materials used as additives to active mass of semi-traction lead-acid batteries	44
<i>Selected papers presented on the seminar Sustainable Processes and Systems in Chemical and Biochemical Technologies - SPSChBT-2023, 30th November, 2023, Sofia, Bulgaria</i>	
K.Semkov, R. Darakchiev, T. Petrova, S. Darakchiev, Horizontal expanded metal sheet packing (Holpack) for mass and heat transfer processes in column apparatuses – study of research, mathematical modeling and industrial application	53
D.R. Koleva, M. K. Karaivanova, Modeling of rectification in a laboratory single-sieve tray column	76
S. Stankov, K. Banov, O. Kostadinova, Influence of the synthesis surfactants on the electrochemical and physicochemical properties of copper zinc tin sulfide	82
<i>ACKNOWLEDGEMENT TO REVIEWERS FOR VOL. 55 (2023)</i>	88
<i>INSTRUCTIONS TO AUTHORS</i>	89