

CONTENTS

<i>List of Contributors</i>	<i>xi</i>
<i>List of Abbreviations</i>	<i>xv</i>
<i>List of Symbols</i>	<i>xix</i>
<i>Preface</i>	<i>xxiii</i>
1. Regularity of Oxidation of Waste Fibrous and Film Materials of Polyethylene and Polypropylene: A Research Note	1
M. V. Bazunova, S. V. Kolesov, R. F. Tukhvatullin, E. I. Kulish, and G. E. Zaikov	
2. A Research Note on Creation Carbon Polymer Nanocomposites with Polyethylene as a Binder	9
Sergei V. Kolesov, Marina V. Bazunova, Elena I. Kulish, Denis R. Valiev, and Gennady E. Zaikov	
3. A Research Note on the Influence of Hybrid Antioxidants Ichphans on the Structure of Liposome Lipid Bi Layer	19
E. Yu. Parshina, L. Ya. Gendel, and A. B. Rubin	
4. Dynamically Vulcanized Thermoelastoplastics Based on Butadiene-Acrylonitrile Rubber and Polypropylene Modified Nano Filler	25
S. I. Volfson, G. E. Zaikov, N. A. Okhotina, A. I. Nigmatullina, O. A. Panfilova, and A. A. Nikiforov	
5. Model Representations of the Effect of Temperature on Resistance Polypropylene Filled with Carbon Black	35
N. N. Komova and G. E. Zaikov	
6. A Research Note on Kinetics of Release Medicinal Substances from Chitosan Films	47
Angela Shurshina, Elena Kulish, and Roman Lazdin	
7. Viscometry Study of Chitosan in Acetic Acid Solution: A Research Note	57
Valentina Chernova, Irina Tuktarova, Elena Kulish, Gennady Zaikov, and Alfiya Galina	

8. The Role of H-Bonding Interactions (and Supra Molecular Nanostructures Formation) in the Mechanisms of Homogenous and Enzymatic Catalysis by Iron (Nickel) Complexes	63
L. I. Matienko, L. A. Mosolova, V. I. Binyukov, E. M. Mil, and G. E. Zaikov	
9. Nanocomposite Foils Based on Silicate Precursor with Surface-Active Compounds: A Research Note	101
L. O. Zaskokina, V. V. Osipova, Y. G. Galyametdinov, and A. A. Momzyakov	
10. Interaction of the 1,1,3-Trimethyl-3-(4-Methylphenyl) Butyl Hydro Peroxide with Tetraethyl Ammonium Bromide	109
N. A. Turovskij, Yu. V. Berestneva, E. V. Raksha, M. Yu. Zubritskij, and G. E. Zaikov	
11. Promises of Personalized Medicine in 21st Century	121
Sanjay Kumar Bharti and Debarshi Kar Mahapatra	
12. Some Aspects of Molecular Mechanics and Dynamics Interactions of Nanostructural Elements	153
A. V. Vakhrushev and A. M. Lipanov	
13. A Detailed Review on Structure and Properties of High Performance Carbon Nanotube/Polymer Composites	187
A. K. Haghi and G. E. Zaikov	
14. Controlled Immobilized Enzymes as Catalysts with Particular Application in Industrial Chemical Processes	241
M. S. Mohy Eldin, M. R. El-Aassar, and E. A. Hassan	
<i>Index</i>	265