

## CONTENTS

THE INSPIRING SCIENTIFIC CAREER OF VALDEMARAS RAZUMAS .....	i
<i>Analytical Chemistry</i>	
Justas MIŠKINIS, Marius DAGYS, Julija RAZUMIENĖ, Marius BUTKEVIČIUS. Beyond potentiometry: an amperometric approach to urea detection using antimony electrodes.....	115
Dovilė MOTIEJAUSKAITĖ, Renata ŽVIRDAUSKIENĖ, Agnė VENCKUTĖ, Karolina BARČAUSKAITĖ. Elemental composition and bioactivity of morphological parts extracts of winter savory ( <i>Satureja montana</i> L.) .....	121
<i>Physical Chemistry</i>	
Zaruhi H. MANUKYAN. The effect of folates on the oxidation reaction of methyl linoleate in micellar solutions.....	132
<i>Physical Biochemistry</i>	
Martynas TALAIKIS, Lina MIKOLIŪNAITĖ, Valdas ŠABLINSKAS, Sonata ADOMAVIČIŪTĖ-GRABUSOVĖ, Gytautė SIRGĖDAITĖ, Evaldas STANKEVIČIUS, Gediminas NIAURA. Recent advances in biomolecular analysis by ultraviolet surface-enhanced resonance Raman spectroscopy: A review.....	139
Benjaminas VALIAUGA, Thomas W. SKURR, Abigail V. SHARROCK, David F. ACKERLEY, Narimantas ČENAS. A minireview on oxygen-insensitive nitroreductases: reaction mechanisms and their biomedical impact.....	150
<i>Inorganic Chemistry</i>	
Dovilė BURAKOVAITĖ, Rūta RASIKĖ, Vilius ČIŽAS, Gediminas NIAURA, Tomas MURAUSKAS, Rasa PAULIUKAITĖ, Justina GAIDUKEVIČ. Effect of graphite particle size on the physicochemical properties and dopamine-sensing performance of reduced graphene oxide .....	161
<i>Organic Chemistry</i>	
Povilas KAVALIAUSKAS, Ramunė GRIGALEVIČIŪTĖ, Gabija LINKAITĖ, Milda ŽITINEVIČIŪTĖ, Ema ANDRIUŠKAITĖ, Skirmantas MUSTEIKIS, Mantas MARČINSKAS, Vytautas GETAUTIS. New derivatives bearing alkyl phosphonic acid moieties as a promising scaffold against drug-resistant H69AR small cell lung cancer models .....	177
<i>Theoretical Chemistry</i>	
Mohamed ABDELKADER, Simona TUČKUTĖ, Rasa PAULIUKAITĖ. The use of physics-informed neural networks (PINNs) to map the Zn <sup>2+</sup> nanoparticles diffusion in Swiss chard: an AI simplified modelling approach .....	197