

---

ANNALES  
UNIVERSITATIS MARIAE CURIE-SKŁODOWSKA  
LUBLIN – POLONIA

VOL. LXXI, 1

SECTIO AA

2016

## TABLE OF CONTENTS

Małgorzata Wiśniewska <i>The 70<sup>th</sup> Birthday of Professor Stanisław Chibowski</i> .....	vii
Magdalena Bielawska, Anna Zdziennicka and Bronisław Jańczuk <i>Comparison between surface and volumetric properties of short-chain alcohols and some classical surfactants</i> .....	1
Magda Ziółkowska, Janina Milewska-Duda and Jan T. Duda <i>Modeling of adsorption phenomena by employing multilayer clustering based adsorption model (uniBET) with various variants of geometrical and energetical heterogeneities</i> .....	15
Julia Maciejewska, Magdalena Oćwieja, Zbigniew Adamczyk, Elżbieta Bielańska and Bogna Napruszewska <i>Titanium dioxide/silver nanoparticle bilayers prepared in self-assembly processes</i> .....	29
Łukasz Kłapiszewski, Tadeusz J. Szalaty, Tomasz Szatkowski and Teofil Jesionowski <i>Lignosulfonate as a byproduct of wood pulp production: A potential precursor for the preparation of functional hybrid materials</i> .....	47
Michał Stodulski and Jan Drzymala <i>Flotation of copper-bearing carbonaceous shale in the presence of amine type frothers</i> .....	69
Zygmunt Sadowski and Aleksandra Skłodowska <i>UO<sub>2</sub> nanoparticles synthesis from leaching solutions on the hematite support</i> .....	79

Konrad Terpiłowski, Lucyna Hołysz, Diana Rymuszka and Robert Banach <i>Comparison of contact angle measurement methods of liquids on metal alloys</i> .....	89
Dorota Kołodyńska, Aleksandra Łyko, Marzena Gęca and Zbigniew Hubicki <i>Perchlorates(VII) removal on Dowex<sup>TM</sup> PSR-2 resin</i> .....	105
Jerzy Narbutt <i>New trends in the reprocessing of spent nuclear fuel. Separation of minor actinides by solvent extraction</i> .....	123
Maciej Chotkowski and Andrzej Czerwiński <i>Stability of technetium in the moderate oxidation states in acidic media</i> .....	141
Bogdan Skwarzec, Alicja Boryło and Dagmara I. Strumińska-Parulska <i>Alpha spectrometry in radiochemical analysis and its environmental applications</i> .....	151
Barbara Kubica and Marcin Stobiński <i>Determination of the activity level of artificial isotope <sup>137</sup>Cs and natural <sup>40</sup>K and the selected heavy metals in the Tatra Mountains ecosystem</i> .....	169