

СПИСЪК НА ВСИЧКИ НАУЧНИ ТРУДОВЕ
на гл. ас. д-р Иван Любомиров Минков

представени за участие в конкурс за заемане на академична длъжност „доцент“ по професионално направление 4.2. Химически науки (Физикохимия), обявен в ДВ брой 64 от 30.07.2024 г.

I. НАУЧНА И ОБРАЗОВАТЕЛНА СТЕПЕН „ДОКТОР“

Дисертационен труд на тема: „Поведение на наноразмерни липидни структури – нанокапсули и алвеоларни сърфактанти върху фазовата граница вода/въздух“

Съвместна докторантura на СУ "Св. Климент Охридски" & University of Angers, France, Ръководители: Проф. дхн Иван Панайотов; Prof. Jacques Proust, 2005г.

II. ПЪЛЕН СПИСЪК НА НАУЧНИТЕ ПУБЛИКАЦИИ

- | | | |
|---|--|------|
| 1 | Tz. Ivanova, I. Minkov , I.Panaiotov, P. Saulnier, J.E. Proust, Dilatational properties and morphology of surface films spread from clinically used lung surfactants, <i>Coll. Polym. Sci.</i> 282 (2004) 1258-1267, doi: 10.1007/s00396-004-1073-8, Ref, Web of Science: IF 0.927, Q2 (2004), SCOPUS: SJR 0.64, Q1 (2004). | 2004 |
| 2 | I. Minkov , J. Proust, P. Saulnier, Tz. Ivanova, I. Panaiotov, Behaviour of lipid nanocapsules of a novel class at air – water interface, <i>Nanoscience&Nanotechnology</i> 4 (2004) 284-287, E. Balabanova, I. Dragieva (Eds.), издателство: Heron Press, Sofia. | 2004 |
| 3 | I. Minkov , Tz. Ivanova, I. Panaiotov, J. Proust, P. Saulnier, Role of the lipid content on the interfacial stabilisation of lipid nanocapsules, <i>Nanoscience&Nanotechnology</i> 5 (2005) 250-253, E. Balabanova, I. Dragieva (Eds.), издателство: Heron Press, Sofia. | 2005 |
| 4 | I. Minkov , Tz. Ivanova, I. Panaiotov, J. Proust, P. Saulnier, Reorganization of lipid nanocapsules at air–water interface I. Kinetics of surface film formation, <i>Colloids and Surfaces B: Biointerfaces</i> 45 (2005) 14-23, doi:10.1016/j.colsurfb.2005.03.009, Web of Science: IF 1.392, Q2 (2005); SCOPUS: SJR 0.737, Q1 (2005). | 2005 |

- 5 **I. Minkov**, Tz. Ivanova, I. Panaiotov, J. Proust, P. Saulnier, Reorganization of lipid nanocapsules at air–water interface Part 2. Properties of the formed surface film, *Colloids and Surfaces B: Biointerfaces* 44 (2005) 197-203, doi:10.1016/j.colsurfb.2005.07.001, Web of Science: IF 1.392, Q2, SCOPUS: SJR 0.737, Q1 (2005). 2005
- 6 **I. Minkov**, Tz. Ivanova, I. Panaiotov, J. Proust, R. Verger, Reorganization of lipid nanocapsules at air–water interface 3. Action of hydrolytic enzymes HLL and pancreatic PLA2, *Colloids and Surfaces B: Biointerfaces* 45 (2005) 24-34, doi:10.1016/j.colsurfb.2005.07.002, Web of Science: IF 1.392, Q2, SCOPUS: SJR 0.737, Q1 (2005). 2005
- 7 K. Mircheva, **I. Minkov**, Tz. Ivanova, I. Panaiotov, J.E. Proust, R. Verger, Comparative study of lipolysis by PLA2 of DOPC substrates organized as monolayers, bilayer vesicles and nanocapsules, *Colloids and Surfaces B: Biointerfaces* 67 (2008) 107-114, doi:10.1016/j.colsurfb.2008.08.007, Web of Science: IF 2.264, Q2 (2008) , SCOPUS: SJR 0.968, Q1 (2008). 2008
- 8 **I. Minkov**, Tz. Ivanova, I. Panaiotov, J.E. Proust, P. Saulnier, Kinetics of reorganization of lipid nanocapsules at air–water interface, *Ann. Univ. Sofia* 101 (2009) 45-62. 2009
- 9 **I. Minkov**, Tz. Ivanova, J. Proust, P. Saulnier, Influence of the phospholipid type on the interfacial stability of a lipid nanocapsules spread at air – water interface, *Nanoscience&Nanotechnology* 9 (2009) 221-224, редактор/и: E. Balabanova, I. Dragieva (Eds.), издателство: Heron Press, Sofia, 2009. 2009
- 10 E. Tsankova, D. Lazarova, A. Tsanova, Ts. Marinova, P. Jotovski, **Iv. Minkov**, G. Zlateva, Application of Innovation Methods at Foreign Students in Medicine for Optimization of Learning Process in Pre-clinical Education, *Trakia Journal of Sciences* 8(3) (2010) 373-375, ISSN (print):1313-7069 , ISSN (online):1313-3551. 2010
- 11 **Ivan Minkov**, Emil Manev, Svetla Sazdanova, Kiril Kolikov, Tests of the modified device for studying osmotic processes and analysis of the results obtained at varied experimental conditions, *IV International conference of young scientists, Plovdiv* (2012) 97-100. 2012
- 12 **Ivan Minkov**, Georgi Krustev, Emil Manev, Kiril Kolikov, Average hydrostatic pressure on smooth solid surfaces. Application to membrane osmometry, *40 Years Shumen University 1971-2011* (2012) 359-367. 2012
- 13 **I. Minkov**, K. Mircheva, N. Grozev, Tz. Ivanova, I. Panaiotov, Properties of mixed monolayers of clinical lung surfactant, serum albumin and hydrophilic polymers, *Colloids and Surfaces B: Biointerfaces* 101 (2013) 2013

135-142, doi:10.1016/j.colsurfb.2012.05.038, Web of Science: IF 3.711, Q1, SCOPUS: SJR 1.267, Q1 (2013).

- | | | |
|----|---|------|
| 14 | I. Minkov , E. Manev, S. Sazdanova, K. Kolikov, Influence of the experimental conditions on the osmotic pressure in aqueous solutions, <i>Ann. Shumen Univ.</i> , vol. XXII B1 (2013) 17-27. | 2013 |
| 15 | Ivan L. Minkov , Emil D. Manev, Svetla V. Sazdanova, Kiril H. Kolikov, Equilibrium and dynamic osmotic behaviour of aqueous solutions with varied concentration at constant and variable volume, <i>The Scientific World Journal</i> (2013), doi:10.1155/2013/876897, Web of Science: IF 1.158, Q2, SCOPUS: SJR 0.509, Q2 (2013). | 2013 |
| 16 | Tonya D. Andreeva, Sashka B. Krumova, Ivan L. Minkov , Mira Busheva, Zdravko Lalchev, Stefka G. Taneva, Protonation-induced changes in the macroorganization of LHCII monolayers, <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> 460 (2014) 196-203, doi:10.1016/j.colsurfa.2013.12.044, Web of Science: IF 2.448, Q2 (2014), SCOPUS: SJR 0.854, Q2 (2014). | 2014 |
| 17 | Emil D. Manev, Kiril H. Kolikov, Ivan L. Minkov , Boryan P. Radoev, Modeling of osmotic kinetics in aqueous solutions, based on experimental data, <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> 460 (2014) 454-459, doi:10.1016/j.colsurfa.2014.01.006, Web of Science: IF 2.448, Q2, SCOPUS: SJR 0.854, Q2 (2014). | 2014 |
| 18 | Tz. Ivanova, K. Mircheva, K. Balashev, I. Minkov , P. Saulnier, I. Panaiotov, Interfacial behavior of lipid nanocapsules spread on model membrane monolayers, <i>Colloid and Polymer Science</i> 292(6) (2014) 1307-1318, doi:10.1007/s00396-014-3180-5, Web of Science: IF 1.576, Q2 (2014), SCOPUS, SJR 0.654, Q2 (2014). | 2014 |
| 19 | Boryan P. Radoev, Ivan L. Minkov , Emil D. Manev, Kinetics of the osmotic process and the polarization effect, <i>Chemistry: Bulgarian Journal of Science Education</i> 24(6) (2015) 930-942, SCOPUS: SJR 0.202, Q3 (2015). | 2015 |
| 20 | I. Panaiotov, Tz. Ivanova, K. Balashev, N. Grozev, I. Minkov , K. Mircheva, Interfacial reorganization of molecular assemblies used as drug delivery systems, <i>Chemistry: Bulgarian Journal of Science Education</i> 24 (6) (2015) 891-921, SCOPUS: SJR 202, Q3 (2015). | 2015 |
| 21 | T.V. Peshkova, I.L. Minkov , R. Tsekov, R.I. Slavchov, Adsorption of ions at uncharged insoluble monolayers, <i>Langmuir</i> 32 (2016) 8858-8871, doi: | 2016 |

10.1021/acs.langmuir.6b02349, Web of Science: IF 3.492, Q2, SCOPUS: SJR 1.559, Q1 (2016).

- | | | |
|----|---|------|
| 22 | Radomir I. Slavchov, Ivan L. Minkov , Dimitrinka Arabadzhieva, Elena Mileva, Barrier desorption from sparingly soluble alkanol monolayers on water under constant surface tension, <i>Nanoscience and Nanotechnology</i> 18(1) (2017) 21-33, редактор/и: E. Balabanova, E. Mileva, издателство: Bulgarian Academy of Sciences (BAS). | 2017 |
| 23 | I. L. Minkov , E. D. Manev, S. V. Sazdanova, K. H. Kolikov, Effect of controlled volume variation on the osmotic rate in aqueous solutions, <i>Bulgarian Chemical Communications</i> 50(1) (2018) 63-68, SCOPUS: SJR 0.137, Q4 (2018). | 2018 |
| 24 | Ivan L. Minkov , Dimitrinka Arabadzhieva, Ibrahim Salama, Elena Mileva, Radomir I. Slavchov, Barrier kinetics of adsorption-desorption of alcohol monolayers on water under constant surface tension, <i>Soft Matter</i> 15 (2019) 1730-1746, doi: 10.1039/c8sm02076k, Web of Science, IF 3.57, Q1 (2019), SCOPUS: SJR 1.49, Q1 (2019). | 2019 |
| 25 | Ivan L. Minkov , Iglika M.Dimitrova, Dimitrinka Arabadzhieva, Elena Mileva, Radomir I. Slavchov, The cause of accelerated desorption of sparingly soluble dodecanol monolayers: Convection or leakage?, <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> 629 (2021) 127414, doi: https://doi.org/10.1016/j.colsurfa.2021.127414 , Web of Science: IF 4.848, Q2 (2021), SCOPUS: SJR 0.758, Q2 (2021). | 2021 |
| 26 | Dimitrinka Arabadzhieva, Anna Y.Gyurova, Ivan Minkov , Alexander Chinarev, Elena Mileva, Fine-Tuning of Bulk and Interfacial Characteristics of Two-Antennary Oligoglycines in Aqueous Solutions, <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> 630 (2021) 127591, doi: https://doi.org/10.1016/j.colsurfa.2021.127591 , Web of Science, IF 4.539, Q2, SCOPUS: SJR 0.758 , Q2 (2021). | 2021 |
| 27 | Boyan Peychev, Dimitrinka Arabadzhieva, Ivan Minkov , Elena Mileva, Stoyan K. Smoukov, Radomir I. Slavchov, Measuring the Adsorption of Electrolytes on Lipid Monolayers, <i>J. Phys. Chem. Letters</i> 14 (2023) 4652-4656, doi: https://doi.org/10.1021/acs.jpclett.3c00795 , Web of Science: IF 6.89, Q1, SCOPUS: SJR 1.85, Q1 (2023). | 2023 |
| 28 | Anna Gyurova, Dimitrinka Arabadzhieva, Ivan Minkov , Ljubomir Nikolov, Elena Mileva, Impact of Temperature Variations on the Entrapment of Bacterial Endotoxins in Aqueous Solutions of Four-Antennary Oligoglycines, <i>Colloids and Interfaces</i> 7(4) (2023) 62, doi: | 2023 |

<https://doi.org/10.3390/colloids7040062>, Web of Science: IF 2.4, Q3,
SCOPUS: SJR 0.415, Q2 (2023).

- 29 Ivo Grabchev, Albena Ivanova, Evgenia Vasileva-Tonkova, **Ivan Minkov**, Sensing and Microbiological Activity of a New Blue Fluorescence Polyamidoamine Dendrimer Modified with 1,8-Naphthalimide Units, *Molecules* 29(9) (2024), doi:10.3390/molecules29091960, Web of Science: IF 4.2, Q2, SCOPUS: SJR 0.744, Q1 (2023). 2024
- 30 Boyan Peychev, Dimitrinka Arabadzhieva, **Ivan Minkov**, Elena Mileva, Radomir Slavchov, Quantifying the Hydrophobic Effect per CF₂ Moiety from Adsorption of Fluorinated Alcohols at the Water/Oil Interface, *Molecules* 29(7) (2024) 1421, doi:10.3390/molecules29071421, Web of Science: IF 4.2, Q2, SCOPUS: SJR 0.744, Q1 (2023). 2024
- 31 Boyan Peychev, Dimitrinka Arabadzhieva, **Ivan L. Minkov**, Iglika M. Dimitrova, Elena Mileva, Stoyan K. Smoukov, Radomir I. Slavchov, Measuring the Equilibrium Spreading Pressure—A Tale of Three Amphiphiles, *Molecules* 29(17) (2024), doi: <https://doi.org/10.3390/molecules29174004>, Web of Science: IF 3.9, Q2, SCOPUS: SJR 0.744, Q1 (2023). 2024
- 32 Radomir Slavchov, Boyan Peychev, **Ivan Minkov**, Electrolytes at Uncharged Liquid Interfaces: Adsorption, Potentials, Surface Tension, and the Role of the Surfactant Monolayer, *Langmuir* 40(33) (2024) 17170-17189, doi: <https://doi.org/10.1021/acs.langmuir.4c01388>, Web of Science: IF 3.3, Q2, SCOPUS: SJR 0.786, Q1 (2023). 2024

17.09.2024 г.

София

Подпись:

гл. ас. д-р Иван Л. Минков