

Списък на всички научни публикации на гл. ас. д-р Николай Александров Грозев

Общ брой 32, от тях 28 реферирани и индексирани в Scopus. Статии от № 1 до № 5 включително, влизат в дисертационния труд за придобиване на образователната и научна степен „Доктор“. Статии от № 6 до № 11, № 13 до № 16 и от № 18 до № 25 включително, участват в настоящия конкурс.

1. Ivanova Tz., Grozev N., Panaiotov I., Proust J.E. – Role of the molecular weight and the composition on the hydrolysis kinetics of monolayers of poly(α -hydroxy acid)s, *Colloid and Polymer Science*, **1999**, 277(8), pp. 709-718
2. Grozev N., Ague-Beghin V., Ivanova Tz., Baumberger S., Cathala B., Douillard R., Panaiotov I. – State, electrical and rheological properties of model and dioxan isolated lignin films at the air-water interface, *Colloid and Polymer Science*, **2002**, 280(9), pp. 798-813
3. Grozev N., Svendsen A., Verger R., Panaiotov I. – Enzymatic hydrolysis by *Humicola lanuginosa* lipase of polycaprolactone monolayers, *Colloid and Polymer Science*, **2002**, 280(1), pp. 7-17
4. Grozev N., Ague-Beghin V., Cathala B., Douillard R., Panaiotov I. – Kinetics and layer organization during the polymerization of coniferyl alcohol at the air-water interface, *Colloid and Polymer Science*, **2004**, 282(5), pp. 429-439
5. Grozev N., Panaiotov I. – Dilatational behavior of monolayers undergoing relaxation processes with different characteristic times, *Annuaire de L'Universite de Sofia*, **2004**, 96, pp. 213-227
6. Reiter G., Botiz I., Graveleau L., Grozev N., Albrecht K., Mourran A., Moller M. – Morphologies of polymer crystals in thin films, *Lecture Notes in Physics*, **2007**, 714, pp. 179 – 200
7. Anastasova S., Milanova M., Kashchieva E., Funakubo H., Kamo T., Grozev N., Stefanov P., Todorovsky D. – Morphology of sol-gel produced composite films for optical oxygen sensors, *Applied Surface Science*, **2008**, 6, pp. 1545 – 1558
8. Botiz I., Grozev N., Schlaad H., Reiter G. – The influence of protic non-solvents present in the environment on structure formation of poly(γ -benzyl-l-glutamate) in organic solvents, *Soft Matter*, **2008**, 4(5), pp. 993 – 1002
9. Grozev N., Botiz I., Reiter G. – Morphological instabilities of polymer crystals, *European Physical Journal E*, **2008**, 27, pp. 63 - 71

10. Karakashev, S.I., Grozev, N., Díez, I., Ras, R.H.A., Tsekov, R. – Rheology of silver nanocluster solutions under confinement, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2011**, 384 (1-3), pp. 570–573
11. Tsekov R., Grozev N.A., Delcheva I.V., Ivanov I.T., Balashev K., Karakashev S.I. – Delta-comb potential in modeling three-phase contact line (TPCL) on periodically patterned surfaces, *Journal of Physical Chemistry B*, **2012**, 44, pp. 13248 – 13253
12. Грозев Н., Тошева Т., Димитрова И., Славчов Р. – Адсорбция и разпределение на нейоногенни повърхностноактивни вещества на междуфазовата граница вода|масло, *Bulg. J. Chem.*, **2013**, 2(1), стр. 25-35
13. Minkov I., Mircheva K., Grozev N., Ivanova T., Panaiotov I. – Properties of mixed monolayers of clinical lung surfactant, serum albumin and hydrophilic polymers, *Colloids and Surfaces B: Biointerfaces*, **2013**, 101, pp. 135 – 142
14. Slavchov R.I., Novev J.K., Peshkova T.V., Grozev N.A. – Surface tension and surface $\Delta\chi$ -potential of concentrated Z+: Z- electrolyte solutions, *Journal of Colloid and Interface Science*, **2013**, 403, pp. 113 - 126
15. Panaiotov I., Ivanova Tz., Balashev K., Grozev N., Minkov I., Mircheva K. – Interfacial reorganization of molecular assemblies used as drug delivery systems, *Chemistry*, **2015**, 6, pp. 891 - 921
16. Karakashev S.I., Stöckelhuber K.W., Tsekov R., Grozev N., Simeonova S., Raykundaliya N., Heinrich G. – Bubble rubbing on hydrophobic solid surfaces, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2018**, 555, pp. 638 – 645
17. Anchev, B., Tsekova, D., Mircheva, K., Grozev, N. – Monolayer structures formed by L-ASP based surfactants, *Nanoscience & Nanotechnology: Nanostructured materials application and innovation transfer*, **2018**,
18. Sankaran A., Karakashev S.I., Sett S., Grozev N., Yarin A.L. – On the nature of the superspreaders, *Advances in Colloid and Interface Science*, **2019**, 263, pp. 1 - 18
19. Grozev N., Nedyalkova M., Tzvetkov G., Mircheva K., Balashev K – Formation of stable and horse head-like shape platinum nanoparticles at the air/water interface, *Proceedings of SPIE - The International Society for Optical Engineering*, **2019**, 11332, 1133205
20. Anchev B.A., Tsekova D.S., Mircheva K.M., Grozev N.A. – Monolayer formed by l-Asp-based gemini surfactants self-assembled in 1D nanostructures, *RSC Advances*, **2019**, 9(57), pp. 33071–33079

21. Anchev B., Grozev N.A., Mircheva K.M., Tsekova D.S. – On the synthesis, surface activity and supramolecular structures of pseudo double-chained L-Asp based amphiphiles, *Journal of Chemical Technology and Metallurgy*, **2020**, 55(1), pp. 11
22. Alexandrova L.A., Grigorov L.S., Grozev N.A., Karakashev S.I. – Investigation of interfacial free energy of three-phase contact on a glass sphere in case of cationic-anionic surfactant aqueous mixtures, *Coatings*, **2020**, 10(6), pp. 573
23. Karakashev S.I., Grozev N.A., Batjargal K., Guven O., Ozdemir O., Boylu F., Çelik M.S. – Correlations for easy calculation of the critical coalescence concentration (CCC) of simple frothers, *Coatings*, **2020**, 10(7), pp. 612
24. Guven O., Batjargal K., Ozdemir O., Karakashev S.I., Grozev N.A., Boylu F., Çelik M.S. – Experimental procedure for the determination of the critical coalescence concentration (Ccc) of simple frothers, *Minerals*, **2020**, 10(7), pp. 1 - 12, 617
25. Stambolova I., Dimitrov O., Shipochka M., Yordanov S., Blaskov V., Vassilev S., Jivov B., Simeonova Silviya, Balashev K., Grozev N., Lakov L. – Corrosion resistance of sol-gel ZrO₂ coatings deposited on stainless steel, *Journal of Physics: Conference Series*, **2020**, 1492(1), 012025
26. Karakashev, S. I., Grozev, N. A. – The law of parsimony and the negative charge of the bubbles, *Coatings*, **2020**, 10(10), pp.1 – 23
27. Yordanov S., Stambolova I., Shipochka M., Simeonova S., Grozev N., Lakov L., Aleksandrova M., Jivov B., Blaskov V. – Investigation of anticorrosive behavior of zirconia-titanium coatings in NaCl medium, *International scientific journal "Machines. Technologies. Materials"*, **2020**, 14(1)
28. Stambolova I., Stoyanova D., Shipochka M., Boshkova N., Eliyas A., Simeonova S., Grozev N., Boshkov N. – Surface Morphological and Chemical Features of Anticorrosion ZrO₂-TiO₂ Coatings: Impact of Zirconium Precursor, *Coatings*, **2021**, 11(6), pp. 703
29. Karakashev S.I., Smoukov S.K., Raykundaliya N., Grozev N.A. – Duality of foam stabilization, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2021**, 619, pp. 126521
30. Batjargal K., Guven O., Ozdemir O., Karakashev S.I., Grozev N.A., Boylu F., Çelik, M.S. – Adsorption kinetics of various frothers on rising bubbles of different sizes under flotation conditions, *Minerals*, **2021**, 11(3), pp.1-16
31. Amani, P., Karakashev, S. I., Grozev, N. A., Simeonova, S. S., Miller, R., Rudolph, V., Firouzi, M., – Effect of selected monovalent salts on surfactant stabilized foams, *Advances in Colloid and Interface Science*, **2021**, 295, 102490

32. Karakashev, S. I., Grozev, N. A., Ozdemir, O., Batjargal, K., Guven, O., Ata, S., Bournival, G., Boylu, F., Sabri Çelik, M., – On the frother's strength and its performance, *Minerals Engineering*, **2021**, 171, 107093