

- [36] R. R. Benedix, S. Botsch, N. Preisig, V. Kovalchuk, P. G. Jessop, C. Stubenrauch, Influence of a CO<sub>2</sub>-switchable additive on the surface and foaming properties of a cationic non-switchable surfactant, *Soft Matter*, **2023**, 19, 2941-2948.
- [35] M. Herbst, M. O. Dombrowski, N. Preisig, S. Dieterich, F. Giesselmann, P. Mésini, C. Stubenrauch, Gelled lyotropic nematic liquid crystals, *Liquid Crystals*, **2023**, DOI: 10.1080/02678292.2023.2201583
- [34] T. Schad, N. Preisig, H. Piening, C. Stubenrauch, Innovative Foam-based Cleaning Concepts for Historical Objects, *Tenside Surfactants Detergents*, **2022**, 59(6), 451-459.
- [33] T. Schad, N. Preisig, W. Drenckhan, C. Stubenrauch, Foam-based cleaning of surfaces contaminated with mixtures of oil and soot, *Journal of Surfactants and Detergents*, **2022**, 25, 377–385.
- [32] P. Menold, R. Strey, N. Preisig, C. Stubenrauch, Experimental evidence of a transition from a sponge-like to a foam-like nanostructure in water-rich L<sub>3</sub> phases, *Journal of Colloid and Interface Science*, **2021**, 601, 133–142.
- [31] T. Schad, N. Preisig, D. Blunk, H. Piening, W. Drenckhan, C. Stubenrauch, Less is more: unstable foams clean better than stable foams, *JCIS*, **2021**, 590, 311–320.
- [30] S. Dieterich, F. Stemmler, N. Preisig, F. Giesselmann, Micellar Lyotropic Nematic Gels, *Advanced Materials*, **2021**, 2007340 (1-5).
- [29] R. Geisler, M. C. Pedersen, N. Preisig, Y. Hannappel, S. Prévost, R. Dattani, L. Arleth, T. Hellweg, Aescin - a natural soap for the formation of lipid nanodiscs with tunable size, *Soft Matter*, **2021**, 17, 1888–1900.
- [28] K. Peng, N. Preisig, T. Sottmann, C. Stubenrauch, Formulation of Gelled Non-toxic Bicontinuous Microemulsions Stabilized by Highly Efficient Alkanoyl Methylglucamides. *Langmuir*, **2020**, 36, 12692-12701.
- [27] K. Steck, N. Preisig, C. Stubenrauch, Gelling Lyotropic Liquid Crystals with the Organogelator 1,3:2,4-Dibenzylidene-d-sorbitol. Part II: Microstructure. *Langmuir*, **2019**, 35, 17142-17149.
- [26] N. Preisig, T. Schad, L. Jacomine, R. Bordes, C. Stubenrauch, How promoting and breaking intersurfactant H-bonds impacts foam stability, *Langmuir*, **2019**, 35(47), 14999-15008.
- [25] W. Xiang, N. Preisig, A. Ketola, B.L. Tardy, L. Bai, J.A. Ketoja, C. Stubenrauch, O.J. Rojas, On how cellulose nanofibrils affect bulk, surface, and foam properties of anionic surfactant solutions. *Biomacromolecules*, **2019**, 20(12), 4361-4369.
- [24] W. Xiang, N. Preisig, C. Laine, T. Hjelt, B. Tardy, C. Stubenrauch, O. Rojas, Surface activity and foaming capacity of aggregates formed between an anionic surfactant and non-cellulosics leached from wood fibers, *Biomacromolecules*, **2019**, 20(6), 2286-2294.
- [23] D. Ranieri, N. Preisig, C. Stubenrauch, On the influence of intersurfactant H-bonds on foam stability: a study with technical grade surfactants, *Tenside Surf. Det.*, **2018**, 55, 6-16.

[22] S. Koitani, S. Dieterich, N. Preisig, K. Aramaki, C. Stubenrauch, Gelling Lamellar Phases of the Binary System Water – Didodecyldimethylammonium Bromide with an Organogelator, *Langmuir*, **2017**, 33, 12171-12179.

[21] C. Stubenrauch, M. Hamann, N. Preisig, V. Chauhan, R. Bordes, On How Hydrogen Bonds Affect Foam Stability, *ACIS*, **2017**, 247, 435-443.

[20] Stubenrauch, C., Preisig, N., Laughlin, R., Phosphine Oxide Surfactants Revisited, *ACIS*, **2016**, 230, 2-12.

[19] Xu, Y., Laupheimer, M., Preisig, N., Sottmann, T., Schmidt, C., Stubenrauch, C., Gelled lyotropic liquid crystals: one more type of orthogonal self-assembled systems, *Langmuir*, **2015**, 31, 8589-8598.

[18] Laupheimer, M., Preisig, N., Stubenrauch, C., The Molecular Organogel *n*-Decane / 12-Hydroxyoctadecanoic Acid: Sol-Gel Transition, Rheology, and Microstructure, *COLSUA*, **2015**, 469, 315-325.

[17] Schellmann, K., Preisig, N., Claesson, P., Stubenrauch, C., Effects of Protonation on Foaming Properties of Dodecyldimethylammonium Oxide Solutions: A pH-study, *Soft Matter*, **2015**, 11, 561-571.

[16] Boos J., Preisig N., Stubenrauch C., Dilational Surface Rheology Studies of *n*-Dodecyl- $\beta$ -D-Maltoside, Hexaethyleneglycol Monododecyl Ether, and their 1:1 Mixture. *Adv. Colloid Interface Sci.*, **2013**, 197-198, 108.

[15] Patil S. R., **Buchavzov** N., Carey E., Stubenrauch C., Binary Mixtures of  $\beta$ -Dodecyl-maltoside ( $\beta$ -C<sub>12</sub>G<sub>2</sub>) with Cationic and Non-Ionic Surfactants: Micelle and Surface Compositions. *Soft Matter*, **2008**, 4, 840.

[14] **Buchavzov**, N., Stubenrauch, C., A disjoining pressure study of foam films stabilized by mixtures of non-ionic and ionic surfactants, *Langmuir*, **2007**, 23, 5315.

[13] **Buchavzov**, N., Ravera, F., Hess, S., Liu, Y., Steinbrenner, U., Stubenrauch, C., Interfacial Tensions, Partition Coefficients, and Interfacial Elasticities: Measures for Emulsion Stability? *Tenside Surf. Det.*, **2007**, 44, 4.

[12] Blunk, D., Tessorf, R., **Buchavzov**, N., Strey, R., Stubenrauch, C., Purification, Surface Tensions, and Miscibility Gaps of Alkyldimethyl and Alkyldiethyl Phosphine Oxides, *JSD*, **2007**, 10(3), 155.

[11] Schulze-Schlarmann, J., **Buchavzov**, N., Stubenrauch, C., A disjoining pressure study of foam films stabilized by tetradecyl trimethyl ammonium bromide C<sub>14</sub>TAB, *Soft Matter*, **2006**, 2, 584.

[10] Bongartz, N., Blunk, D., **Buchavzov**, N., Stubenrauch, C., Synthesis and Selected Properties of New Inositol Surfactants, Proceedings, 34. Arbeitstagung Flüssigkristalle, **2006**.

---

[9] Ostrovskii, N. M., Chumakova, N. A., **Bukhavtsova**, N. M., Vernikovskaya, N. V., Aristov, Yu. I., Effect of capillary condensation on water sorption by composite calcium

chloride in a porous matrix sorbents *Theoretical Foundations of Chemical Engineering*, **2007**, 41(2), 200.

*Original Russian Text* © N.M. Ostrovskii, N.A. Chumakova, N.M. Bukhavtsova, N.V. Vernikovskaya, Yu.I. Aristov, 2007, published in *Teoreticheskie Osnovy Khimicheskoi Tekhnologii*, 2007, Vol. 41(2), pp. 213–216.

[8] Ostrovskii, N.M., Chumakova, N.A., **Bukhavtsova**, N.M., Vernikovskaya, N.V., Aristov, Yu.I., Modeling of the Limiting Step of Water Sorption by Composite Sorbents of the “Calcium Chloride in Porous Matrix” Type, *Theor. Found. Chem. Eng.*, **2007**, 41(1), 86.

*Original Russian Text* © N.M. Ostrovskii, N.A. Chumakova, N.M. Bukhavtsova, N.V. Vernikovskaya, Yu.I. Aristov, 2007, published in *Teoreticheskie Osnovy Khimicheskoi Tekhnologii*, 2007, Vol. 41(1), pp. 86

[7] Bukhavtsova, N. M., Ostrovskii, N. M. Kinetics of catalyst poisoning during capillary condensation of reactants. *Kinetics and Catalysis* (Translation of *Kinetika i Kataliz*), **2002**, 43(1), 73-80.

[6] Ostrovskii, N. M.; **Bukhavtsova**, N. M. Catalytic reactions accompanied by capillary condensation. Physical Chemistry **2002**, Proceedings of the International Conference on Fundamental and Applied Aspects of Physical Chemistry, 6th, Belgrade, Yugoslavia, Sept. 26-28, **2002**, 1, 3-10.

[5] Aristov, Yu.I., Tokarev, M.M., Koptyug, I.V., Il'ina, L.Yu., Korotkikh, V.N., Ostrovskii, N.M., Chumakova, N.A., Vernikovskaya, N.V., and **Bukhavtsova**, N.M., Study of Air Drying by New Composite Sorbents “Salt in Porous Matrix,” in *Sovremennye podkhody k issledovaniyu i opisaniyu protsessov sushki poristykh tel* (Modern Approaches to Investigation and Description of Drying of Porous Bodies), Novosibirsk: Sib. Otd. Ross. Akad. Nauk, **2001**, p. 180.

[4] Tokarev, M.M., Koptyug, I.V., Ostrovskii, N.M., Chumakova, N.A., Ilyina, L.Y., Vernikovskaya, N.V., **Bukhavtsova**, N.M., and Aristov, Yu.I., Composite Sorbents “CaCl<sub>2</sub> in a Porous Matrix” for Gas Drying: Fixed Bed Experiments, NMR-Imaging, Modelling, *Proc. 5<sup>th</sup> Italian Conf. Chem. Process Eng.*, Florence, Italy, May 20–23, **2001**, vol. 1, p. 191.

[3] **Bukhavtsova**, N.M., Ostrovskii, N.M., Catalytic Reactions Accompanied by Capillary Condensation. 3. Influence on Reaction Kinetics and Dynamics, *React. Kinet. Catal. Lett.*, **1998**, vol. 65, p. 322.

[2] Ostrovskii, N.M., **Bukhavtsova**, N.M., Catalytic Reactions Accompanied by Capillary Condensation: 2. Mass Transfer inside a Pellet, *React. Kinet. Catal. Lett.*, **1995**, 56, 391.

[1] Ostrovskii N.M., **Bukhavtsova** N.M., Duplyakin V.K., Catalytic reactions accompanied by capillary condensation. 1. Formulation of the problems. *React. Kinet. Catal. Lett.*, **1994**, 53, 253.