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### Reviewed Papers

189. **Transition from a Sponge-Like to a Foam-Like Nanostructure in a Water-Rich L<sub>3</sub> Phase: A Confirmation**, P. Menold, R. Strey, U. Olsson, Z. Takacs, D. Topgaard, C. Stubenrauch, *COLSUA*, **2025**, 705, 135747 (1-8)
188. **Properties of liquid foams stabilized by sugar-based surfactants and prepared under different conditions**, J. V. C. do Nascimento, E. R. A. Lima, N. Preisig, C. Stubenrauch, *J Surfact Deterg.*, Special Issue in Honor of Jean-Louis Salager, **2025**, <http://doi.org/10.1002/jsde.12800>
187. **Biobased ordered porous materials in the nano- to microscales** (Review), Y. Chun, Y. Zhu, C. Stubenrauch, Y. Lu, O. J. Rojas, *COCIS*, **2024**, 73, 101822 (1-14)
186. **Cleaning solid surfaces with liquid interfaces and foams: from theory to applications** (Review), C. Stubenrauch, W. Drenckhan, *COCIS*, **2024**, 72, 101818 (1-17)
185. **Time dependence of gel formation in lyotropic nematic liquid crystals: from hours to weeks**, M. Dombrowski, M. Herbst, N. Preisig, F. Giesselmann, C. Stubenrauch, *Gels*, **2024**, 10, 261 (1-14)
184. **Detection of Lipase Activity with Liquid Foams**, T. Schad, D. Zauser, A.-L. Fameau, C. Stubenrauch, *COLSUA*, **2024**, 683, 132995 (1-5)
183. **Transition from a Sponge-Like to an Onion-Like Nanostructure in an L<sub>3</sub> Phase – Part I**, P. Menold, R. Strey, S. Roitsch, N. Preisig, C. Stubenrauch, *JCIS*, **2024**, 653, Part B, 1743-1752
182. **Interface Adsorption versus Bulk Micellization of Surfactants: Insights from Molecular Simulations**, M. Kanduč, C. Stubenrauch, R. Miller, E. Schneck, *J. Chem. Theory Comput.*, **2024**, 20, 1568-1578
181. **Transition from a Foam-Like to an Onion-Like Nanostructure in Water-Rich L<sub>3</sub> Phases**, P. Menold, R. Strey, S. Roitsch, N. Preisig, C. Stubenrauch, *Tenside Surf. Det.*, **2023**, 60, 507-518
180. **Liquid foams as sensors for the detection of biomarkers**, A.-L. Fameau, R. Bordes, L. Evenäs, C. Stubenrauch, *JCIS*, **2023**, 651, 987-991
179. **Microemulsion supported by Octyl Monoglucoside and Geraniol. 3. Microstructure & General Pattern**, F. Trummer, O. Lade, O. Glatter, T. Sottmann, C. Stubenrauch, *COLSUA*, **2023**, 676, 132133 (1-10)
178. **Fluorocarbon Vapors Slow Down Coalescence in Foams: Influence of Surfactant Concentration**, K. Steck, J. Dijoux, N. Preisig, V. Bouylout, C. Stubenrauch, W. Drenckhan, *Colloid and Polymer Science*, **2023**, 301, 685-695
177. **Surface and foaming properties of an anionic CO<sub>2</sub>-switchable tail surfactant**, R. Benedix, H. Poole, D. Zauser, N. Preisig, P. Jessop, C. Stubenrauch, *Tenside Surf. Det.*, **2023**, 60, 269-276

- 176. Influence of a CO<sub>2</sub>-switchable additive on the surface and foaming properties of a cationic non-switchable surfactant**, R. Benedix, S. Botsch, N. Preisig, V. Kovalchuk, P. Jessop, C. Stubenrauch, *Soft Matter*, **2023**, *19*, 2941-2948
- 175. Gelled lyotropic nematic liquid crystals**, M. Herbst, M. Dombrowski, N. Preisig, S. Dieterich, F. Giesselmann, P. Mésini, C. Stubenrauch, *Liquid Crystals*, **2023**, *50*, 1090-1100
- 174. Evaluation of a Low-Cost Dryer for a Low-Cost Optical Particle Counter**, M. Chacón-Mateos, B. Laquai, U. Vogt, C. Stubenrauch, *Atmos. Meas. Tech.* **2022**, *15*, 7395-7410
- 173. Innovative Foam-based Cleaning Concepts for Historical Objects**, T. Schad, N. Preisig, H. Piening, C. Stubenrauch, *Tenside Surf. Det.*, **2022**, *59*, 451-459
- 172. New gelatin-based hydrogel foams for improved enzyme substrate conversion**, F. Dehli, C. Stubenrauch, A. Southan, *Macromolecular Bioscience*, **2022**, *22*, 2200139 (1-9)
- 171. Foaming and Defoaming Properties of CO<sub>2</sub>-switchable Surfactants**, H. Poole, Ph. Jessop, C. Stubenrauch, *J Surfact Deterg.*, **2022**, *25*, 467-475
- 170. Foam-Based Cleaning of Surfaces Contaminated with Mixtures of Oil and Soot**, T. Schad, N. Preisig, W. Drenckhan, C. Stubenrauch, *J Surfact Deterg.*, **2022**, *25*, 377-385
- 169. PoreScript: Semi-Automated Pore Size Algorithm for Scaffold Characterization**, D. Jenkins, K. Salhadar, G. Ashby, A. Mishra, J. Cheshire, F. Beltran, M. Grunlan, S. Andrieux, C. Stubenrauch, E. Cosgriff-Hernandez, *Bioactive Materials*, **2022**, *13*, 1-8
- 168. Gelatin-based foamed and non-foamed hydrogels for sorption and controlled release of metoprolol**, F. Dehli, H. Poole, C. Stubenrauch, A. Southan, *Applied Polymer Materials*, **2021**, *3*, 5674-5682
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- 166. From water-rich to oil-rich gelled non-toxic microemulsions**, K. Peng, N. Preisig, T. Sottmann, C. Stubenrauch, *PCCP*, **2021**, *23*, 16855-16867
- 165. Experimental Evidence of a Transition from a Sponge-Like to a Foam-Like Nanostructure in Water-Rich L<sub>3</sub> Phases**, P. Menold, R. Strey, N. Preisig, C. Stubenrauch, *JCIS*, **2021**, *601*, 133-142
- 164. Gelled non-toxic bicontinuous microemulsions as promising transdermal drug carriers**, K. Peng, T. Sottmann, C. Stubenrauch, *Molecular Physics*, **2021**, *119:15-16*, e188636, *Special Issue of Molecular Physics in memory of the late Gerhard Findenegg*
- 163. Mineral Plastic Foams**, P. Menold, H. Cölfen, C. Stubenrauch, *Materials Horizons*, **2021**, *8*, 1222-1229
- 162. On how the Morphology affects Water Release of Porous Polystyrene**, M. Hamann, A. Quell, L. Koch, C. Stubenrauch, *Materials Today Communications*, **2021**, *26*, 102087 (1-12)

161. **Less is More: Unstable Foams clean better than Stable Foams**, T. Schad, N. Preisig, D. Blunk, H. Piening, W. Drenckhan, C. Stubenrauch, *JCIS*, **2021**, 590, 311-320
160. **Tailoring and visualisation of pore openings in gelatin-based hydrogel foams**, F. Dehli, A. Southan, W. Drenckhan, C. Stubenrauch, *JCIS*, **2021**, 588, 326-335
159. **Porous polymers via emulsion templating: pore deformation during solidification cannot be explained by an osmotic transport!** L. Koch, W. Drenckhan, C. Stubenrauch, *Colloid & Polym. Sci.*, **2021**, 299, 233-242
158. **Intersurfactant H-bonds between Head Groups of *n*-Dodecyl- $\beta$ -D-Maltoside at the Air-Water Interface**, M. Kanduč, E. Schneck, C. Stubenrauch, *JCIS*, **2021**, 586, 588-595
157. **Emulsion Templating: Unexpected Morphology of Monodisperse Macroporous Polymers**, L. Koch, S. Botsch, C. Stubenrauch, *JCIS*, **2021**, 582, 834-841
156. **Methacrylate-based Polymer Foams with Controllable Pore Sizes and Polydispersities via Foamed Emulsion Templating**, M. L. Dabrowski, C. Stubenrauch, *Adv. Eng. Mat.*, **2020**, 22, 2001013 (1-12)
155. **Formulation of gelled non-toxic bicontinuous microemulsions stabilized by highly efficient alkanoyl methylglucamides**, K. Peng, N. Preisig, T. Sottmann, C. Stubenrauch, *Langmuir*, **2020**, 36, 12692-12701
154. **Surfactant-Based Lyotropic Liquid Crystal Gels – the Interplay between Anisotropic Order and Gel Formation (Review)**, K. Steck, S. Dieterich, C. Stubenrauch, F. Giesselmann, *J. Mater. Chem. C*, **2020**, 8, 5335-5348
153. **Formulation and Polymerization of Foamed 1,4-BDDMA-in-Water Emulsions**, M. Dabrowski, M. Hamann, C. Stubenrauch, *RSC Advances*, **2020**, 10, 8917-8926
152. **Monodisperse Liquid Foams via Membrane Foaming**, L. Carballido, M. Dabrowski, F. Dehli, L. Koch, C. Stubenrauch, *JCIS*, **2020**, 568, 46-53
151. **Methacrylate-based Polymer Foams with Controllable Connectivity, Pore Shape, Pore Size and Polydispersity**, M. L. Dabrowski, D. Jenkins, E. Cosgriff-Hernandez, C. Stubenrauch, *PCCP*, **2020**, 22, 155-168
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149. **Gelling Lyotropic Liquid Crystals with the Organogelator 1,3:2,4-Dibenzylidene-D-Sorbitol - Part II: Microstructure**, K. Steck, N. Preisig, C. Stubenrauch, *Langmuir*, **2019**, 35, 17142-17149
148. **Gelling Lyotropic Liquid Crystals with the Organogelator 1,3:2,4-Dibenzylidene-D-Sorbitol - Part I: Phase Studies and Sol-Gel Transitions**, K. Steck, C. Stubenrauch, *Langmuir*, **2019**, 35, 17132-17141
147. **How Promoting and Breaking Intersurfactant H-Bonds Impact Foam Stability**, N. Preisig, T. Schad, L. Jacomine, R. Bordes, C. Stubenrauch, *Langmuir*, **2019**, 35, 14999-15008

146. **Hydrogelation with a Water-Insoluble Organogelator - Surfactant Mediated Gelation (SMG)**, K. Aramaki, S. Koitani, E. Takimoto, M. Kondo, C. Stubenrauch, *Soft Matter*, **2019**, *15*, 8896-8904
145. **Gelled Non-Toxic Microemulsions: Phase Behavior & Rheology**, K. Peng, T. Sottmann, C. Stubenrauch, *Soft Matter*, **2019**, *15*, 8361-8371
144. **How cellulose nanofibrils affect bulk, surface, and foam properties of anionic surfactant solutions**, W. Xiang, N. Preisig, A. Ketola, B.L. Tardy, L. Bai, J.A. Ketoja, C. Stubenrauch, O.J. Rojas, *Biomacromolecules*, **2019**, *20*, 4361-4369
143. **Highly ordered gelatin methacryloyl hydrogel foams with tunable pore size**, F. Dehli, L. Rebers, C. Stubenrauch, A. Southan, *Biomacromolecules*, **2019**, *20*, 2666-2674
142. **Surface activity and foaming capacity of aggregates formed between an anionic surfactant and non-cellulosics leached from wood fibers**, W. Xiang, N. Preisig, Ch. Laine, T. Hjelt, B.L. Tardy, C. Stubenrauch, O.J. Rojas, *Biomacromolecules*, **2019**, *20*, 2286-2294
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133. **Gelling Lamellar Phases of the Binary System Water – Didodecyldimethylammonium Bromide with an Organogelator**, S. Koitani, S. Dieterich, N. Preisig, K. Aramaki, C. Stubenrauch, *Langmuir*, **2017**, *33*, 12171-12179

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**Mikroemulsionen mit Alkylglucosiden aus makroskopischer und NMR-spektroskopischer Sicht** (*Microemulsions supported by alkylglucosides from the macroscopic and the NMR-spectroscopic point of view*), C. Stubenrauch, Shaker Verlag, Aachen (1998), ISBN 3-8265-3529-4

## Patents

- (1) **Tensid-haltige Schäume / Surfactant-Containing Foams**, P. Schmiedel, D. Panzica, Ch. Reichert, C. Stubenrauch, M. Völker, U. Trebbe, PCT/EP2013/071844: (a) German Patent published 24<sup>th</sup> April 2014 (DE 102012219218.2); (b) International Patent published 5<sup>th</sup> May 2014 (WO 2014/064005 A1); (c) Aufgabe Schutzrecht 2021
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