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<u>Year</u>	<u>Title, Authors, Journal, Volume, Issue, Page Numbers</u>
2022	"Interactions of Surfactants with Biomimetic Membranes. 1. Ionic Surfactants", Nikolai Kocherginsky and Brajendra K. Sharma (<i>JSD</i> 24(4):661-667).
2021	"Probe Molecules for Pulsed-Field-Gradient Diffusion Nuclear Magnetic Resonance Experiments on Micelles," Mark D. Lingwood, Benjamin J. Schepergerdes, Deja-Monae T. Hermosillo, Jalissa N. Delgado, and Kaya P. Sanders (<i>JSD</i> 23(2):319-325).
2020	"Understanding and Prediction of the Clouding Phenomenon by Spontaneous and Effective Packing Concepts," M. Pleines, W. Kunz, and T. Zemb (<i>JSD</i> 22(5):1011-1021).
2019	"New Interfacial Rheology Characteristics Measured using a Spinning-Drop Rheometer at the Optimum Formulation of a Simple Surfactant–Oil–Water System," R. Marquez, A.M. Forgiarini, J. Fernández, D. Langevin, and J.L. Salager (<i>JSD</i> 21(5):611–623).
2018	"Optimized Microemulsion Systems for Detergency of Vegetable Oils at Low Surfactant Concentration and Bath Temperature," C. Attaphong and D.A. Sabatini (<i>JSD</i> 20(4):805–813).
2017	"Elucidation of Softening Mechanism in Rinse-Cycle Fabric Softeners. Part 2: Uneven Adsorption—The Key Phenomenon to the Effect of Fabric Softeners," T. Igarashi, K. Nakamura, M. Hoshi, T. Hara, H. Kojima, M. Itou, R. Ikeda, and Y. Okamoto (<i>JSD</i> 19(2016):756–773).
2016	"Using the Scanning Fluid Dynamic Gauging Device to Understand the Cleaning of Baked Lard Soiling Layer," A. Ali, Z. Alam, G. Ward, and D.I. Wilson (<i>JSD</i> 18(6):933–947).
2015	"Trends to Attain a Lower Interfacial Tension in a Revisited pure Alkyl Polyethyleneglycol Surfactant –Alkane–Water Ternary System. Basic Concepts and Straightforward Guidelines for Improving Performance in Enhanced Oil Recovery Formulations," J.L. Salager, L. Manchego, L. Márquez, J. Bullón, and A. Forgiarini (<i>JSD</i> 17(2):199–213).

- 2014 "Protocol for Studying Aqueous Foams Stabilized by Surfactant Mixtures," J. Boos, W. Drenckhan, and C. Stubenrauch (*JSD* 16(1):1–12).
- 2013 "On the Characteristic Curvature of Alkyl-Polypropylene Oxide Sulfate Extended Surfactants," C.E. Hammond and E.J. Acosta (*JSD* 15(2):157-165).
- 2012 "Comparison of a Cationic Gemini Surfactant and the Corresponding Monomeric Surfactant for Corrosion Protection of Mild Steel in Hydrochloric Acid," M. Mahdavian, A.R. Tehrani-Bagha, and K. Holmberg (*JSD* 14(4):605–613).
- 2011 "Creation of Novel Green and Sustainable Gemini-Type Cationics Containing Carbonate Linkages," T. Banno, K. Kawada, and S. Matsumura (*JSD* 13(4):387–398).
- 2010 "Adsorption of Aroma Chemicals on Cotton Fabric in Different Aqueous Environments," S.K. Obendorf, H. Liu, K. Tan, M.J. Leonard, T.J. Young, and M.J. Incorvia (*JSD* 12(1):43–58).
- 2009 "The Characteristic Curvature of Ionic Surfactants," E.J. Acosta, J.Sh. Yuan, and A.Sh. Bhakta (*JSD* 11(2):145–158).
- 2008 "Imaging the Detergency of Single Cotton Fibers with Confocal Microscopy: The Effect of Surfactants and Lipases," A.W. Sonesson, T.H. Callisen, U.M. Elofsson, and H. Brismar (*JSD* 10(4):211–218).
- 2007 "Contact Angle of Surfactant Solutions on Precipitated Surfactant Surfaces. III. Effects of Subsaturated Anionic and Nonionic Surfactants and NaCl," B. Luepakdeesakoon, C. Saiwan, and J. Scamehorn (*JSD* 9(2):125–136).
- 2006 "Mechanism of the Enhanced Spreading of Some Mixtures of Anionic and Cationic Hydrocarbon Chain Surfactants on a Highly Hydrophobic Polyethylene Surface," M. Rosen and H. Liu (*JSD* 8(2):157–163).
- 2005 "Kinetics of the Self-Assembly of Gemini Surfactants," C. Groth, M. Nydén, K. Holmberg, J. Kanicky, and D. Shah (*JSD* 7(3):247–255).
- 2004 "Linker-Modified Microemulsions for a Variety of Oils and Surfactants," E. Acosta, P.D. Mai, J. Harwell, and D. Sabatini (*JSD* 6(4):353–363).
- 2003 "Kinetics of Precipitation of Surfactants. III. Atomic Force Microscopy of Precipitate Crystal," J. Scamehorn, C.H. Rodriguez, W. Yuan, and E.A. O'Rear (*JSD* 5(3):269–280).
- 2002 "Microbial Survival and Odor in Laundry," S. Munk, C. Johansen, L.H. Stahnke, and J. Adler-Nissen (*JSD* 4(4):385–394).

- 2001 “Sugar Fatty Acid Ester Surfactants: Structure and Ultimate Aerobic Biodegradability,” F. Grieser, D.N. Furlong, I. Krodkiewska, H. Soares, C.J. Drummond, and B. Matthews (*JSD* 3(1):1–11).
- 2000 “Detergency of Used Motor Oil from Cotton and Polyester Fabrics,” Y-S. Chi and S.K. Obendorf (*JSD* 2(1):1–12).
- 1999 “Chemical Structure/Property Relationships in Surfactants. 17. *N*-Substituted-*N*-acyl Glycinates in Pure and Synthetic Hard River Water,” Y-P. Zhu, M.J. Rosen, and S.W. Morrall (*JSD* 1(1):1–10).
- 1998 “Methyl Ester Ethoxylates,” M.F. Cox and U. Weerasooriya (*JAOCs* 74(7):847–589).
- 1997 “Quantitative-Structure-Effect Relationship for Some Technical Nonionic Surfactants,” Å. Lindgren, M. Sjöström, and S. Wold (*JAOCs* 73(7):863–875).
- 1996 “A Study of the Ditallowdimethylammonium Chloride Interaction with Cellulose,” A. Crutzen (*JAOCs* 72(1):137–143).
- 1995 “The Molecular Mechanism for Destabilization of Foams by Organic Ions,” I. Blute, M. Jansson, S-G. Oh, and D. Shah (*JAOCs* 71(1):41–46).
- 1994 “Kinetics and Practical Significance of Biodegradation of Linear Alkylbenzene Sulfonate in the Environment,” R.J. Larson, T.M. Rothgeb, R.J. Shimp, T.E. Ward, and R.M. Ventullo (*JAOCs* 70(7):645–657).
- 1993 (tie) “Rheological Prediction of the Physical Stability of Concentrated Dispersions Containing Particulates,” P.F. Reboa and M.C. Fryan (*JAOCs* 69(1):71–79).
- “Preparation and Properties of Glycerol-Based Double- or Triple-Chain Surfactants with Two Hydrophilic Ionic Groups,” Y-P. Zhu, A. Masuyama, Y-I. Kirito, M. Okahara, and M.J. Rosen (*JAOCs* 69(7):626–632).
- 1992 “Kinetics of Staining and Bleaching,” E. Kissa, J.M. Dohner, W.R. Gibson, and D. Strickman (*JAOCs* 68(7):532–538).
- 1991 “The Effect of Polar Soil Components on the Phase Inversion Temperature and Optimum Detergency Condition,” H.L. Benson and K.H. Raney (*JAOCs* 67(11):722–729).
- 1990 (tie) “Effect of Alkyl Carbon Chain Length and Ethylene Oxide Content on the Performance of Linear Alcohol Ethoxylates,” M.F. Cox (*JAOCs* 66(3):367–374).
- “Effect of Alkyl Carbon Chain Length and Ethylene Oxide Content on the Performance of Linear Alcohol Ether Sulfates,” M.F. Cox (*JAOCs* 66(11):1637–1646).

- 1989 "Synergism in Binary Mixtures of Surfactants. 7. Synergism in Foaming and its Relation to Other Types of Synergism," M.J. Rosen and Z.H. Zhu (*JAOCs* 65(4):663–668).
- 1988 "An Improved Method for Evaluating Detergent Builders for Water Hardness Control," J.A. McDonell and A. Lui (*JAOCs* 64(5):769–776).
- 1987 "Peaked Distribution Ethoxylates—Their Preparation, Characterization and Performance Evaluation," K.L. Matheson, T.P. Matson, and K. Yang (*JAOCs* 63(3):365–370).
- 1986 "Effect of Surfactant Structure on Stability of Enzymes Formulated into Laundry Liquids," L. Kravetz and K.F. Guin (*JAOCs* 62(5):943–949).
- 1985 "Optimization of Nonionic Surfactants for Hard-Surface Cleaning," T.P. Matson and M.F. Cox (*JAOCs* 61(7):1273–1278).
- 1984 "Interpreting the Appearance of Dispersed Systems. I. Model Dispersions of Polymer Latex Microspheres," E.I. Franses, L.E. Scriven, H.T. Davis, and W.G. Miller (*JAOCs* 60(5):1029–1042).
- "Interpreting the Appearance of Dispersed Systems. II. A Guide for Surfactant Systems," E.I. Franses, L.E. Scriven, H.T. Davis, and W.G. Miller (*JAOCs* 60(5):1043–1049).
- 1983 "Ultimate Biodegradation Studies of α -Olefin Sulfonates," L. Kravetz, H. Chung, and J.C. Rapean (*JAOCs* 59(4):206–210).
- 1982 "Ethylene Oxide Oligomer Distribution in Nonionic Surfactants via High Performance Liquid Chromatography," M.C. Allen and D.E. Linder (*JAOCs* 58(10):950–957).
- 1981 "Examination of the Parameters Governing Oily Soil Removal from Synthetic Substrates," E.D. Goddard, D.A. McKenzie, and K.W. Dillan (*JAOCs* 57(7):230–237).
- 1980 "Oily Soil Removal from a Polyester Substrate by Aqueous Nonionic Surfactant Systems," K.W. Dillan, E.D. Goddard, and D.A. McKenzie (*JAOCs* 56(1):59–70).