LIST OF PUBLICATIONS

MAGNUS BERGSTRÖM

Publications 1992-2012

Number of articles: 53
Number of citations: 1094
h-index = 20
Database: Web of Science (2012-04-05, 44 articles registered)

Original papers in refereed journals:

1. Magnus Bergström and Jan Christer Eriksson
   *Composition Fluctuations Promoting the Formation of Long Rod-Shaped Micelles*
   Langmuir 1992, 8, 36 - 42.
   Number of citations = 7

2. Jan Christer Eriksson, Magnus Bergström and Stig Ljunggren
   *Size Distributions of Equilibrated Bilayer Vesicles*

3. Magnus Bergström and Jan Christer Eriksson
   *The Energetics of Forming Equilibrated Bilayer Vesicles*
   Langmuir 1996, 12, 624 - 635.
   Number of citations = 52

4. Magnus Bergström
   *Derivation of Size Distributions of Surfactant Micelles Taking into Account Shape, Composition and Chain Packing Density Fluctuations*
   Number of citations = 12

5. Magnus Bergström
   *Thermodynamics of Vesicle Formation from a Mixture of Anionic and Cationic Surfactants*
   Langmuir 1996, 12, 2454 - 2463.
   Number of citations = 56

6. Magnus Bergström
   *Reversibly Formed Bilayer Vesicles: Energetics and Polydispersity*

7. Magnus Bergström and Jan Christer Eriksson
   *Size Distribution of Reversibly Formed Bilayer Vesicles*
   Number of citations = 26
8. Magnus Bergström and Jan Skov Pedersen
Small-Angle Neutron Scattering (SANS) Study of Aggregates Formed from Aqueous Mixtures of Sodium Dodecyl Sulphate (SDS) and Dodecyltrimethylammonium Bromide (DTAB)
Number of citations = 47

9. Magnus Bergström and Jan Skov Pedersen
Formation of Tablet-Shaped and Ribbonlike Micelles in Mixtures of an Anionic and a Cationic Surfactant
Number of citations = 58

10. Magnus Bergström and Jan Skov Pedersen
A Small-Angle Neutron Scattering (SANS) Study of Tablet-shaped and Ribbonlike Micelles Formed from Mixtures of an Anionic and a Cationic Surfactant
Number of citations = 45

11. Magnus Bergström and Jan Skov Pedersen
Structure of Pure SDS and DTAB Micelles in Brine Determined by Small-Angle Neutron Scattering (SANS)
Number of citations = 73

12. Magnus Bergström, Jan Skov Pedersen, Peter Schurtenberger and Stefan U. Egelhaaf
Small-Angle Neutron Scattering (SANS) Study of Vesicles and Lamellar Sheets Formed from Mixtures of an Anionic and a Cationic Surfactant
Number of citations = 63

13. Magnus Bergström and Jan Skov Pedersen
A Small-Angle Neutron Scattering Study of Surfactant Aggregates Formed in Aqueous Mixtures of Sodium Dodecyl Sulfate and Didodecyldimethylammonium Bromide
Number of citations = 27

14. Andra Dedinaite, Per M. Claesson and Magnus Bergström
Polyelectrolyte-Surfactant Layers: Adsorption of Preformed Aggregates versus Adsorption of Surfactant to Preadsorbed Polyelectrolyte
Number of citations = 61

15. Magnus Bergström
Thermodynamics of Anisotropic Surfactant Micelles
I. The Influence of the Curvature Free Energy on the Micellar Size and Shape
Number of citations = 9
16. Magnus Bergström
   *Thermodynamics of Anisotropic Surfactant Micelles II. A Molecular Interpretation of the Micellar Curvature Free Energy*
   Number of citations = 7

17. Magnus Bergström and Jan Christer Eriksson
   *A Theoretical Analysis of Synergistic Effects in Mixed Surfactant Systems*
   Number of citations = 72

18. Per M. Claesson, Magnus Bergström, Andra Dedinaite, Mikael Kjellin, Jean-Francois Legrand and Isabelle Grillo
   *Mixtures of Cationic Polyelectrolyte and Anionic Surfactant Studied with Small-Angle Neutron Scattering*
   Number of citations = 54

19. Magnus Bergström
   *Synergistic Effects in Mixtures of an Anionic and a Cationic Surfactant*
   Number of citations = 47

20. Magnus Bergström
   *Thermodynamics of Unilamellar Vesicles: Influence of Mixing on the Curvature Free Energy of a Vesicle Bilayer*
   Number of citations = 27

21. Magnus Bergström
   *A Molecular Interpretation of the Mean Bending Constant for a Thermodynamically Open Vesicle Bilayer*
   Number of citations = 11

22. Lise Arleth, Magnus Bergström and Jan Skov Pedersen
   *Small-Angle Neutron Scattering Study of the Growth Behavior, Flexibility and Inter-Micellar Interactions of Wormlike SDS Micelles in NaBr Aqueous Solutions*
   Number of citations = 35

23. Magnus Bergström, U. R. Mikael Kjellin, Per M. Claesson, Jan Skov Pedersen and Martin M. Nielsen
   *A Small-Angle X-ray Scattering Study of Complexes Formed in Mixtures of a Cationic Polyelectrolyte and an Anionic Surfactant*
   Number of citations = 29
24. Magnus Bergström
   *Derivation of Expressions for the Spontaneous Curvature, Mean and Gaussian Bending
     Constants of Thermodynamically Open Surfactant Monolayers and Bilayers*
   Number of citations = 6

25. Jan Christer Eriksson, Magnus Bergström and Marcus Persson
   *Solution Thermodynamics of Mixed Nonionic/Ionic and Ionic/Ionic Surfactant Mix-
     tures*
   Number of citations = 2

26. Marcus Persson, Petra Jonsson, Magnus Bergström and Jan Christer Eriksson
   *Testing the Gouy-Chapman Theory by Means of Surface Tension Measurements for
     SDS-NaCl Mixtures*
   Number of citations = 17

27. Magnus Bergström, Petra Jonsson, Marcus Persson and Jan Christer Eriksson
   *A Model Independent Evaluation of Experimental Data, and Comparison with Theory,
     of Synergistic Effects in Mixtures of an Ionic and a Nonionic Surfactant*
   Number of citations = 18

28. L. Magnus Bergström, U. R. Mikael Kjellin, Per M. Claesson and Isabelle Grillo
   *A Small-Angle Neutron Scattering Study of Mixtures of Cationic Polyelectrolyte and
     Anionic Surfactant: Effect of Polyelectrolyte Charge Density*
   Number of citations = 23

29. Caroline A. Ericsson, Olle Söderman, Vasil M. Garamus, L. Magnus Bergström and
    Stefan Ulvenlund
   *Effects of Temperature, Salt and Deuterium Oxide on the Self-Aggregation of Alkylgly-
     cosides in Dilute Solution. Part 1. n-Nonyl-β-D-Glucoside.*
   Number of citations = 27

30. Mari Kadi, Per Hansson, Mats Almgren, L. Magnus Bergström and Vasil M. Garamus
    *Mixed Micelles of Fluorocarbon and Hydrocarbon Surfactants. A Small Angle Neutron
     Scattering Study.*
    Number of citations = 9

31. Magnus Bergström and Jan Christer Eriksson
    *Synergistic Effects in Binary Surfactant Mixtures*
32. Luis A. Bastardo, Vasyl M. Garamus, L. Magnus Bergström and Per M. Claesson
   *The Structures of Complexes between Polyethylene Imine and Sodium Dodecyl Sulfate in D2O. A Scattering Study*
   Number of citations = 30

33. Caroline A. Ericsson, Olle Söderman, Vasil M. Garamus, L. Magnus Bergström and Stefan Ulvenlund
   *Effects of Temperature, Salt and Deuterium Oxide on the Self-Aggregation of Alkylglycosides in Dilute Solution. Part 2. n-Tetradecyl-β-D-Maltoside.*
   Number of citations = 14

34. Ali Naderi, Per M. Claesson, Magnus Bergström and Andra Dedinaite
   *Trapped Non-Equilibrium States in Aqueous Solutions of Oppositely Charged Polyelectrolytes and Surfactants: Effects of Mixing Protocol and Salt Concentrations*
   Number of citations = 36

35. L. Magnus Bergström, Luis A. Bastardo and Vasyl M. Garamus
   *A Small-Angle Neutron Scattering Study of Micelles Formed in Aqueous Mixtures of a Nonionic Alkylglucoside and an Anionic Surfactant*
   Number of citations = 11

36. L. Magnus Bergström
   *Model Calculations of the Spontaneous Curvature, Mean and Gaussian Bending Constants for a Thermodynamically Open Surfactant Film*
   Number of citations = 14

37. L. Magnus Bergström
   *Bending Elasticity of Charged Surfactant Layers: The Effect of Layer Thickness*
   Number of citations = 13

38. L. Magnus Bergström
   *Bending Elasticity of Charged Surfactant Layers: The Effect of Mixing*
   Number of citations = 13

39. L. Magnus Bergström
   *Bending Energetics of Tablet-Shaped Micelles: A Novel Approach to Rationalize Micellar Systems*
   Number of citations = 11
40. L. Magnus Bergström
   *Influence of Bending Energetics on the Size, Shape and Polydispersity of Droplet Microemulsions*
   Number of citations = 4

41. Emma Johansson, Maria C. Sandström, L. Magnus Bergström and Katarina Edwards
   *On the Formation of Discoidal versus Threadlike Micelles in Surfactant/Lipid Systems*
   Number of citations = 6

42. L. Magnus Bergström and Tobias Bramer
   *Synergistic Effects in Mixtures of Oppositely Charged Surfactants as Calculated from the Poisson-Boltzmann Theory: A Comparison between Theoretical Predictions and Experiments*
   Number of citations = 5

43. L. Magnus Bergström
   *Thermodynamics and Bending Energetics of Toruslike Micelles*
   Number of citations = 3

44. L. Magnus Bergström
   *Bending Elasticity of Nonionic Surfactant Layers*
   Number of citations = 2

   *Aggregation and network formation of aqueous methylcellulose and hydroxypropylmethylcellulose solutions*
   Number of citations = 10

46. L. Magnus Bergström and Makoto Aratono
   *Synergistic Effects in Mixtures of Two Identically Charged Ionic Surfactants with Different Critical Micelle Concentrations: A Comparison between Theoretical Predictions and Experimental Observations*
   Number of citations = 2
47. L. Magnus Bergström, Sara Skoglund, Katrin Danerlöv, Vasyl Garamus and Jan Skov Pedersen

*The Growth of Micelles, and the Transition to Bilayers, in Mixtures of a Single-Chain and a Double-Chain Cationic Surfactant Investigated with Small-Angle Neutron Scattering*

Soft Matter, 2011, 7, 10935 - 10944

Number of citations = -

48. L. Magnus Bergström and Vasyl Garamus

*Influence of Bending Elasticity on the Geometry of Mixed Surfactant Micelles: A Small-Angle Neutron Scattering Study*

J. Colloid Interface Sci., 2012, 381, 89 - 99

49. L. Magnus Bergström and Vasyl Garamus

*The Geometrical Shape of Micelles Formed by Cationic Dimeric Surfactants Determined with Small-Angle Neutron Scattering*

Langmuir 2012, 28, 9311 - 9321

50. L. Magnus Bergström, Sara Skoglund, Isabell Grillo, Jonny Eriksson and Katarina Edwards

*Self-Assembly in Mixtures of an Anionic and a Cationic Surfactant: A Comparison between SANS and CRYO-TEM*

Soft Matter 2012, submitted

**Book chapters:**

51. Magnus Bergström

*Thermodynamics of Surfactant Micelles and Vesicles*


52. Magnus Bergström

*Size and Shape Analysis of Micellar Systems*


53. L. Magnus Bergström

*Thermodynamics of Self-Assembly*

Conference contributions

1. Understanding Self-Assembly and Organization in Liquid Crystals
   Leeds, UK, 3-5 Jul, 1991
   *Poster*: Composition Fluctuations Promote the Formation of Long Rod-shaped Micelles

2. 4th European Student Conference
   Loch Lomond, UK, Apr, 1993
   *Oral Presentation*: Size Distributions of Equilibrated Bilayer Vesicles

3. 5th European Student Conference
   Ven, Sweden, 20-23 May, 1995
   *Oral Presentation*: The Energetics of Forming Equilibrated Bilayer Vesicles

4. 10th Conference of the European Colloid and Interface Society (ECIS)
   Turku, Finland, 2-6 Sep, 1996
   *Oral Presentation*: Reversibly Formed Bilayer Vesicles: Energetics and Polydispersity

5. 11th Conference of the European Colloid and Interface Society (ECIS)
   Lunteren, The Netherlands, 14-19 Sep, 1997
   *Poster*: A SANS Study of Aggregates Formed in Aqueous Mixtures of an Anionic (SDS) and a Cationic Surfactant (DTAB)

6. Unifying Principles for Engineering Soft Materials
   Roskilde, Denmark, 22-25 Jun, 1998
   *Poster*: A SANS Study of Micelles Formed in Aqueous Mixtures of an Anionic (SDS) and a Cationic Surfactant (DTAB)

7. 12th Conference of the European Colloid and Interface Society (ECIS)
   Dubrovnik-Cavtat, Croatia, 20-25 Sep, 1998
   *Oral Presentation*: Formation of Tablet-Shaped and Ribbonlike Micelles in Mixtures of an Anionic and a Cationic Surfactant

8. XIth International conference on Small-Angle Scattering
    Brookhaven, Long Island, Upton, New York, USA, 17-20 May, 1999
    *Oral Presentation*: The Growth from Small Disk-Shaped to Larger Tablet-Shaped or Ribbon-Like Surfactant Micelles Investigated by Small-Angle Neutron Scattering (SANS)

9. Symposium on Lipid and Surfactant Self-Assemblies:
    Structure, Dynamics and Reactions
    Uppsala, Sweden, 24-25 Feb, 2000
    *Poster*: The Influence of Mixing on the Curvature Free Energy of a Surfactant Bilayer Vesicle

        Gainesville, Florida, USA, 11-16 Jun, 2000
Oral Presentation: Evidence of the Formation of Rigid Tablet-Shaped and Flexible Ribbon-Like Micelles in Aqueous surfactant Mixtures Investigated by Small-Angle Neutron Scattering (SANS)
Poster: The Influence of Mixing on the Curvature Free Energy of a Surfactant Bilayer Vesicle

12. 15th Conference of the European Colloid and Interface Society (ECIS)
Coimbra, Portugal, 16-21 Sep, 2001
Poster: Synergistic Effects in Mixed Surfactant Systems

Barcelona, Spain, 9-14 Jun, 2002
Oral Presentation: A SANS Study of Micelles Formed in Mixtures of an Anionic (SDS) and a Nonionic Sugar-Based Surfactant
Poster: Derivation of Expressions for the Spontaneous Curvature, Mean and Gaussian Bending Constants of Thermodynamically Open Surfactant Monolayers and Bilayers

15. 20th Conference of the European Colloid and Interface Society (ECIS)
Budapest, Hungary, 17-22 Sep, 2006
Oral Presentation: Bending Elasticity of Charged Surfactant Layers: Effects of Layer Thickness and Mixing

16. 12th Swedish Neutron Scattering Society Meeting (SNSS-12)
Stockholm, Sweden, 13-14 May, 2008
Oral Presentation: A Small-Angle Neutron Scattering Study of Micelles Formed by Cationic Gemini Surfactants with Different Spacer Lengths

17. 14th Swedish Neutron Scattering Society Meeting (SNSS-14)
Lund, Sweden, 24-25 Aug, 2010
Oral Presentation: Tablet-Shaped Micelles, and the Transition from Micelles to Bilayers, Investigated with SANS

18. 8th Nordic Work Shop on Scattering of Soft Matter (NSSM-8)
Kjeller, Norway, 26-27 Jan, 2011
Oral Presentation: Tablet-Shaped Micelles, and the Transition from Micelles to Bilayers, Investigated with SANS

19. 15th Swedish Neutron Scattering Society Meeting (SNSS-15)
Göteborg, Sweden, 24-25 Aug, 2011
Oral Presentation: Investigating the Micelle-to-Bilayer Transition in Surfactant Mixtures

20. 9th Nordic Work Shop on Scattering of Soft Matter (NSSM-9)
Göteborg, Sweden, 18-19 Jan, 2012
Oral Presentation: Self-Assembly in Mixtures of an Anionic and a Cationic Surfactant: A Comparison between SANS and CRYO-TEM