Shigeyuki Komura (好村 滋行)

Tokyo Metropolitan University
Department of Chemistry
Graduate School of Science
Tokyo 192-0397, Japan

Phone: +81-426-77-2537
Fax: +81-426-77-2525
Email: komura@tmu.ac.jp
Homepage: https://www.comp.tmu.ac.jp/shigekomura/

Personal

- Born on July 15, 1964
- Japanese Citizen
- Married, 2 children

Higher Education

- Ph.D in Physics (1993) Thesis: "*Statistical Mechanics of Membranes*"
- Department of Physics, Faculty of Science, The University of Tokyo (1989–1991)
  Ph.D studies. Supervisor: Prof. T. Izuyama
- Department of Physics, Faculty of Science, The University of Tokyo (1987–1989)
  Graduate studies. Supervisor: Prof. T. Izuyama
  M.Sc in Physics (1989) Master Thesis: "*Sound Attenuation in Emulsions*"
- Department of Physics, Faculty of Science, The University of Tokyo (1983–1987)
  Undergraduate studies. B.Sc in Physics (1987)

Employment

- Associate Professor, Department of Chemistry, Graduate School of Science, Tokyo Metropolitan University (2000–)
- Associate Professor, Department of Mechanical System Engineering, Faculty of Computer Science and Systems Engineering, Kyushu Institute of Technology (1995–2000)
- Research Associate, Department of Physics, Faculty of Science, Kyoto University (1992–1995)
- Research Associate, Department of Applied Physics, Faculty of Science, Tokyo Institute of Technology (1991–1992)

Visiting & Short-Term Positions

- Visiting Member - The Kavli Institute for Theoretical Physics China (KITPC), China (8/2015)
- Visiting Member - The Kavli Institute for Theoretical Physics China (KITPC), China (5/2012)
- Visiting Member - The Kavli Institute for Theoretical Physics China (KITPC), China (7/2011)

- Visiting Member - The Isaac Newton Institute for Mathematical Sciences, University of Cambridge, UK (1/2004)
- Visiting Professor - Department of Physics & Astronomy, University of Leeds, UK (8/2002)
- Visiting Professor - Department of Materials and Interfaces, Weizmann Institute of Science, Israel (5/1999–3/2000)
- Visiting Professor - School of Physics and Astronomy, Tel Aviv University, Israel (4/1999)
- Visiting Student Researcher - Institut für Festkörperforschung (IFF), Forschungszentrum Jülich, Germany (4/1990–3/1991)

Fellowships & Awards

- Bilateral Researcher Exchange Program, Japan Society for the Promotion of Science (JSPS), Japan - The Royal Society, UK. Visited the Department of Physics & Astronomy, University of Leeds, UK (8/2002)
- Monbusyo Fellowship Program for Japanese Scholars and Researchers to Study Abroad, The Ministry of Education, Science and Culture, Japan. Visited the Department of Materials and Interfaces, Weizmann Institute of Science, Israel (5/1999–3/2000)
- Bilateral Researcher Exchange Program, Japan Society for the Promotion of Science (JSPS), Japan - Israel Science Foundation, Israel. Visited the School of Physics and Astronomy, Tel Aviv University, Israel (4/1999)

Grants

- Grant-in-Aid for Scientific Research, "*Autonomous Motion of Biological Nanomachines Elucidated by Coarse-grained Model*", The Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan. 3.0 million yen (2020–2021)
- Grant-in-Aid for Scientific Research, "*Non-Equilibrium Dynamics of Micromachines in Soft Matter*", Japan Society for the Promotion of Science (JSPS), Japan. 3.3 million yen (2018–2020)
- Grant-in-Aid for Scientific Research, "*Theoretical Study on Cell Rheology*", Japan Society for the Promotion of Science (JSPS), Japan. 3.4 million yen (2015–2017)
- Grant-in-Aid for Scientific Research on Innovative Areas, "*Synergy of Fluctuation and Structure: Quest for Universal Laws in Non-Equilibrium Systems*" headed by M. Sano (Tokyo University), "*Non-Equilibrium Dynamics of Meso-Structures in Biomembranes*", The Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan. 6.9 million yen (2013–2017)
- Grant-in-Aid for Scientific Research, "*Dynamics of Heterogeneity in Biomembranes*", Japan Society for the Promotion of Science (JSPS), Japan. 3.7 million yen (2012–2014)
- Grant-in-Aid for Scientific Research, "*Formation Condition and Transition Mechanism of Onion Phase under Shear Flow*", The Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan. Headed by T. Kato (Tokyo Metropolitan Univ.) 16.38 million yen (2011–2013)
- Grant-in-Aid for Scientific Research, "*Non-Linear Rheology of Lamellar Phase and Smectic Phase*", Japan Society for the Promotion of Science (JSPS), Japan. 3.64 million yen (2009–2011)

- Grant-in-Aid for Scientific Research on Priority Areas, "*Creation of Non-Equilibrium Soft Matter Physics: Structure and Dynamics of Mesoscopic Systems*" headed by T. Ohta (Kyoto University), "*Dynamics of Shear-Induced Structural Transition in Ordered Lyotropic Systems*" headed by T. Kato (Tokyo Metropolitan Univ.), The Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan. 68.6 million yen (2006–2010)
- Grant-in-Aid for Scientific Research, "*Theory for Controlling Pickering Emulsions*", Japan Society for the Promotion of Science (JSPS), Japan. 2.26 million yen (2006–2008)
- Grant-in-Aid for Scientific Research, "*Effects of Shear Flow on the Structures of Lamellar Liquid Crystals and Slow Dynamics*", Japan Society for the Promotion of Science (JSPS), Japan. Headed by T. Kato (Tokyo Metropolitan Univ.) 15 million yen (2003–2005)
- Grant-in-Aid for Scientific Research, "*Theoretical Study on Microdomains in Biomembranes*", Japan Society for the Promotion of Science (JSPS), Japan. 2.7 million yen (2003–2005)
- Grant-in-Aid for Scientific Research, "*Simulation of Large Deformation and Tribology of Elastic Shells*", Japan Society for the Promotion of Science (JSPS), Japan. 1.5 million yen (2001–2002)
- Grant-in-Aid for Scientific Research, "*Rheology of Micro-Phase Separated Systems*", Japan Society for the Promotion of Science (JSPS), Japan. 2.3 million yen (1997–1998)
- Grant-in-Aid for Scientific Research on Priority Areas, "*Cooperative Phenomena in Complex Liquids*" headed by F. Yonezawa (Keio University), The Ministry of Education, Science and Culture of Japan. "*Rheology of Sponge Phases*", 1.2 million yen (1996)
- Grant-in-Aid for Scientific Research, "*Rheology of Sponge Phases*", The Ministry of Education, Science and Culture of Japan. 1 million yen (1996)
- Grant-in-Aid for Scientific Research on Priority Areas, "*Cooperative Phenomena in Complex Liquids*" headed by F. Yonezawa (Keio University), The Ministry of Education, Science and Culture of Japan. "*Rheology of Block Copolymers*", 0.9 million yen (1995)
- Grant-in-Aid for Scientific Research, "*Computer Simulations of Block Copolymers*", The Ministry of Education, Science and Culture of Japan. 0.9 million yen (1994)
- Grant-in-Aid for Scientific Research, "*Computer Simulations of Membranes*", The Ministry of Education, Science and Culture of Japan. 0.9 million yen (1993)
- Grant-in-Aid for Scientific Research, "*Phase Separations of Systems Having Complex Internal Degree of Freedoms*", The Ministry of Education, Science and Culture of Japan. Headed by A. Onuki (Kyoto Univ.) 1.7 million yen (1993)

Supervision of M.Sc Students

- Midori Ito, 2020-.
- Tomoki Sasada, 2020-.
- Yoshimi Ryu, 2020-.
- Katsutomo Era, 2019-.
- Tomohiro Furuya, 2019-.

- Mizuki Kuroda, 2018-2020. M.Sc Thesis on: "*Hydrodynamic Interaction between Two Elastic Microswimmers*"
- Akifumi Yamashita, 2018-2020. M.Sc Thesis on: "*Simulation of Self-propelled Particles Having Birth and Death Processes*"
- Yuto Hosaka, 2017-2019. M.Sc Thesis on: "*Non-Equilibrium Properties of Enzymes as Active Force Dipoles*"
- Yuki Umemura, 2017-2019. M.Sc Thesis on: "*Morphogenesis of Small Intestinal Villi*"
- Kento Yasuda, 2016-2018. M.Sc Thesis on: "*Micromachines Swimming in Viscoelastic Fluids*"
- Isamu Sou, 2015-2017. M.Sc Thesis on: "*Coexistences of Lamellar Phases in Ternary Surfactant Solutions*"
- Takuma Hoshino, 2014-2016. M.Sc Thesis on: "*Correlated Lateral Phase Separations in Stacks of Lipid Membranes*"
- Yuichi Kanemori, 2013-2015. M.Sc Thesis on: "*Relaxation Dynamics of Binary Fluid Membranes*"
- Yoshinori Akamatsu, 2012-2014. M.Sc Thesis on: "*Budding of Domains in Mixed Bilayer Membranes*"
- Yuichi Hirose, 2006-2008. M.Sc Thesis on: "*Adsorption Dynamics in Pickering Emulsions*"
- Naofumi Shimokawa, 2006-2008. M.Sc Thesis on: "*Phase Behavior of Mixed Lipid Membranes*"
- Yoko Ishii, 2005-2007. M.Sc Thesis on: "*Non-Linear Rheology of Lamellar Phase*"
- Shunsuke Mochizuki, 2004-2006. M.Sc Thesis on: "*Effects of Added Electrolytes on the Structure of Charged Polymeric Micelles*"
- Koichi Hirata, 2003-2005. M.Sc Thesis on: "*Stability of Pickering Emulsions*"
- Sumie Kinouchi, 2002-2005. M.Sc Thesis on: "*A Lattice Model of Protein Diffusion in Membranes*"
- Hisahi Shirotori, 2002-2004. M.Sc Thesis on: "*Phenomenological Models of Phase Behavior in Lipid Systems*"
- Keizo Tamura, 1998-1999. M.Sc Thesis on: "*Mean-Field Approach to Polymeric Microemulsions*"
- Norio Nishida, 1997-1998. M.Sc Thesis on: "*Monte Carlo Simulation of Microemulsions*"

Supervision of Ph.D Students

- Yuto Hosaka, 2019-.
- Kento Yasuda, 2018-.
- Isamu Sou, 2017-.
- Takuma Hoshino, 2016-2019. Ph.D Thesis on: "*Dynamics of Skin Tissues: Correlation Between Structures, Functions, and Lesions*". Ph.D awarded in 3/2019
- Yuichi Hirose, 2008-2011. Ph.D Thesis on: "*Concentration Fluctuation and Phase Separations in Lipid Bilayers*". Ph.D awarded in 3/2011
- Keizo Tamura, 2002-2005. Ph.D Thesis on: "*Deformation of Elastic Shells*". Ph.D awarded in 3/2005

Post-Doctoral Fellows

- Ryuichi Okamoto, 2014-2017. Postdoctoral research on: "*Dynamics of Biomembranes*"
- Sanoop Ramachandran, 2009-2011. Postdoctoral research on: "*Hydrodynamics of Biomembranes*"
- Kotaro Yamada, 2007-2009. Postdoctoral research on: "*Dynamics of Order-Order Phase Separation*"

Teaching Experiences

- The University of Tokyo: "*Thermodynamics*" (2010–2011), "*Electromagnetism*" (2011–2015)
- Tokyo Metropolitan University: "*Basic Seminar*", "*General Chemistry* A", "*General Chemistry* B", "*Physical Chemistry Recitation* I ", "*Physical Chemistry Recitation* II", "*Material Science*", "*Chemical Thermodynamics* I", "*Chemical Thermodynamics* II", "*Chemical Thermodynamics* III", "*Physical Chemistry of Soft Condensed Matter*", "*Advanced Physical Chemistry*"
- Kyushu Institute of Technology: "*Modern Physics* I", "*Modern Physics* II", "*Statistical Fluid Mechanics*", "*Advanced Material Science*"
- Kyoto University: "*Electromagnetism Recitation*", "*Polymer Physics Recitation*"
- Tokyo Institute of Technology: "*Functional Equations Recitation*", "*Physical Mathematics Recitation* II"

Intensive Courses in Other Universities

- Chiba University: "*Microrheology of Bio-Soft Matter Systems*" (2/2018)
- Kyushu University: "*Microrheology of Bio-Soft Matter Systems*" (1/2018)
- Okayama University: "*Interface Science in Soft Matter*" (12/2015)
- Chiba University: "*Soft Matter where Physics, Chemistry and Biology Meet*" (12/2009)
- Kyushu University: "*Interface Science in Soft Matter*" (7/2004)
- Kyoto University: "*Physics of Membranes*" (12/2003)
- Gunma University: "*Advanced Condensed Matter Physics*" (11/2003)
- Yokohama City University: "*Advanced Polymer Physics*" (12/2002, 8/2003, 1/2005)
- Tohoku University: "*Physics of Soft Materials*" (6/2002)
- Nagoya University: "*Physics of Amphiphiles*" (12/2001)
- Ochanomizu University: "*Physics of Soft Materials*" (7/2001, 5/2003, 11/2003)

Principal Organizer of Scientific Conferences

- "*International Workshop on Hydrodynamic Flows in/of Cells*", Tokyo (11/2016)
- "*International Symposium on Fluctuation and Structure out of Equilibrium 2015*", Kyoto (8/2015)
- "*International Symposium on Non-Equilibrium Soft Matter 2010*", Nara (8/2010)
- "*ISSP International Workshop on Soft Matter Physics*", Institute of Solid State Physics (8/2010)
- "*International Symposium on Non-Equilibrium Soft Matter*", Kyoto (6/2008)
- "*International Workshop on Physical Phenomena in Multi-Component Membranes*", Tokyo Metropolitan University (3/2008)
- "*Physics of Soft Matter Complexes*", Tokyo Metropolitan University (11/2004)
- "*Dynamics of Complex Fluids*", Kyoto University (3/2004)
- "*Soft Matter Physics*", Yukawa Institute for Theoretical Physics (2/2002)
- "*Physical Aspects of Amphiphilic Colloids*", Saga Medical University (12/2009)
- "*International Workshop on Amphiphilic Systems*", Yukawa Institute for Theoretical Physics (7–8/1997)
- "*Physics of Membranes*", Yukawa Institute for Theoretical Physics (7/1996)

Membership on Journal Editorial Boards

- Head Editor, *Journal of the Physical Society of Japan*, (2019–)
- Series Editor, *Soft and Biological Matter*, Springer (2014–)
- Editorial Board, *Soft Materials*, Taylor & Francis (2004–)
- Editorial Board, *Japanese Journal of Applied Physics* (2001–2003)

Membership & Organizer of Academic Societies

- The Physical Society of Japan
- The Chemical Society of Japan
- Japanese Liquid Crystal Society
- The American Physical Society
- Organizer of Soft Matter Forum of Japanese Liquid Crystal Society (10/2004–)
- Organizer of Chemical Physics Division of The Physical Society of Japan (11/2002–10/2003)
- Organizer of Polymer Division of The Physical Society of Japan (11/1993–10/1994)

Coordinator

- Grant-in-Aid for Scientific Research on Priority Areas, "*Creation of Non-Equilibrium Soft Matter Physics: Structure and Dynamics of Mesoscopic Systems*", Project Leader: Prof. T. Ohta (Kyoto University), The Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan (2006–2011). Total budget: 16 hundred million yen.

Invited Talks (in English) at Scientific Meetings

- "*Thermally Driven Elastic Micromachines*", Soft Matter Out of Equilibrium: from Driven to Active Systems, Beijing (5/2019)
- "*Thermal and Active Fluctuations of a Compressible Bilayer Vesicle*", Mechanics of Membranes: From Differential Geometry to Cell, Warwick (11/2018)
- "*Thermal and Active Fluctuations of a Compressible Bilayer Vesicle*", 27th International Liquid Crystal Conference, Kyoto (7/2018)
- "*Swimmer-Microrheology*", Association in Solution IV, Memorial University, St. John's (7/2017)
- "*Anomalous Diffusion in Active Cells*", International Workshop on Hydrodynamic Flows in/of Cells, Tokyo Metropolitan University, Tokyo (11/2016)
- "*Anomalous Diffusion in Active Cells*", Interdisciplinary Applications of Nonlinear Science, Kagoshima University, Kagoshima (11/2016)
- "*Dynamics of Multi-Component Membranes*", 4th International Kyushu Colloid Colloquium, Kyushu University, Fukuoka (9/2016)
- "*Anomalous Diffusion in Active Cells*", BioSoft Frontiers: Physics of Soft and Biological Matter, Weizmann Institute of Science, Rehovot (9/2016)
- "*Structural Rheology of the Smectic Phase*", 6th International Mini-Workshop, Chiba Institute of Science, Chiba (4/2016)
- "*Relaxation Dynamics of Binary Lipid Bilayers*", International Symposium on Fluctuation and Structure out of Equilibrium 2015, Kyoto University, Kyoto (8/2015)
- "*Dynamics of Multi-Component Membranes*", Controlled Structural Formation of Soft Matter, The Kavli Institute for Theoretical Physics China (KITPC), Beijing (8/2015)
- "*Anomalous Lateral Diffusion in a Viscous Membrane Surrounded by Viscoelastic Media*", Association in Solution III, Bifröst University, Iceland (7/2012)
- "*Anomalous Lateral Diffusion in a Viscous Membrane Surrounded by Viscoelastic Media*", 14th International Conference on Organized Molecular Films (ICOMF14), Paris Descartes University, Paris (7/2012)
- "*Anomalous Lateral Diffusion in a Viscous Membrane Surrounded by Viscoelastic Media*", Membrane Biophysics | Theory and Experiment, The Kavli Institute for Theoretical Physics China (KITPC), Beijing (5/2012)
- "*Are Lipid Domains above or below T_c?*", Growth of Hierarchical Functional Materials in Complex Fluids, The Kavli Institute for Theoretical Physics China (KITPC), Beijing (7/2011)

- "*Dynamics of a Polymer Chain Confined in a Membrane*", Growth of Hierarchical Functional Materials in Complex Fluids, The Kavli Institute for Theoretical Physics China (KITPC), Beijing (7/2011)
- "*Are Lipid Domains above or below T_c?*", Biophysics of Membrane Transformations, 467th Wilhelm and Else Heraeus Seminar, Physikzentrum Bad Honnef, Bad Honnef (10/2010)
- "*Effects of Bulk Fluid on Phase Separation Dynamics in Membranes*", ISSP International Workshop on Soft Matter Physics, Institute for Solid State Physics of the University of Tokyo, Kashiwa (8/2010)
- "*Smectic Rheology Close to the Smectic-Nematic Transition*", ISSP International Workshop on Soft Matter Physics, Institute for Solid State Physics of the University of Tokyo, Kashiwa (8/2010)
- "*Are Lipid Domains above or below T_c?*", International Student Workshop on Lipid Domains, Weizmann Institute of Science, Rehovot (2/2010)
- "*Adsorption Dynamics in Pickering Emulsions*", International Symposium on Non-Equilibrium Soft Matter, Kyoto University, Kyoto (6/2008)
- "*Hydrodynamics in Multicomponent Biomembranes*", International Workshop on Physical Phenomena in Multi-Component Membranes, Tokyo Metropolitan University, Tokyo (3/2008)
- "*Hydrodynamics in Multicomponent Biomembranes*", Workshop on Structure Formation and Evolution in Soft Matter/Complex Fluid Systems, Beijing University, Beijing (12/2007)
- "*Non-Linear Rheology of Lyotropic Lamellar Phases*", YITP Workshop on Structures and Dynamics in Soft Matter, Yukawa Institute of Theoretical Physics, Kyoto (7/2006)
- "*Buckling of Shells: From Fullerene to Ping-Pong Ball*", Regional Bio-Soft Matter Days 2005, National Taiwan University, Taipei (12/2005)
- "*Spontaneous Curvature of Pickering Emulsions*", Asian Conference on Recent Trends in Colloid and Surface Science, Nagoya University, Nagoya (12/2005)
- "*Phase Transition and Phase Separation in Biomembranes*", International Workshop on Physics of Soft Matter Complexes, Tokyo Metropolitan University, Tokyo (11/2004)

Publications

Edited Book

1. S. Komura and T. Ohta, Series in Soft Condensed Matter Vol.4, "*Non-Equilibrium Soft Matter Physics*" (World Scientific, 2012).

Book Chapters

1. S. Komura, S. Ramachandran, K. Seki, and M. Imai, "*Dynamics of heterogeneity in fluid membranes*", in "*Advances in Planar Lipid Bilayers and Liposomes 16*" edited by A. Iglic (Elsevier), 129-164 (2012).
2. S. Komura, S. Ramachandran, and M. Imai, "*Hydrodynamic effects in multicomponent fluid membranes*", in "*Non-Equilibrium Soft Matter Physics*" edited by S. Komura and T. Ohta (World Scientific), 197-274 (2012).
3. S. Komura and H. Kodama, "*Dynamics of ternary microemulsions*", in "*The Physics of Complex Liquids*" edited by F. Yonezawa, K. Tsuji, K. Kaji, M. Doi, and T. Fujiwara (World Scientific), 184-198 (1998).
4. S. Komura, "*Shape fluctuations of vesicles*", in "*Vesicles*" edited by M. Rosoff (Marcel Dekker), 198-236 (1996).
5. S. Komura and A. Baumgärtner, "*Monte Carlo study of vesicles*", "*Dynamics of Surfaces, Interfaces and Membranes*" edited by D. Beysens, N. Boccara, and G. Forgacs (Nova Science Publishers), 305-314 (1993).

Journal Articles

1. K. Yasuda, Y. Hosaka, I. Sou, and S. Komura, "*Odd microswimmer*", to be published in J. Phys. Soc. Jpn.
2. K. Yasuda and S. Komura, "*Nonreciprocality of a micromachine driven by a catalytic chemical*", to be published in Phys. Rev. E.
3. Y. Hosaka, S. Komura, and D. Andelman, "*Nonreciprocal response of a two-dimensional fluid with odd viscosity*", Phys. Rev. E 103, 042610 (11pp) (2021).
4. Y. Avni, S. Komura, and D. Andelman, "*Brownian motion of a charged colloid in restricted confinement*", Phys. Rev. E 103, 042607 (9pp) (2021).
5. K. Era, Y. Koyano, Y. Hosaka, K. Yasuda, H. Kitahata, and S. Komura, "*Autonomous three-sphere microswimmers driven by coupled internal oscillations*", EPL 133, 34001 (7pp) (2021).
6. I. Sou, Y. Hosaka, K. Yasuda, and S. Komura, "*Irreversibility and entropy production of a thermally driven micromachine*", Physica A 562, 125277 (14pp) (2021).
7. T. Ohta and S. Komura, "*Lateral diffusion on a frozen random surface*", EPL 132, 50007 (7pp) (2020).
8. Y. Hosaka, S. Komura, and A. S. Mikhailov, "*Mechanochemical enzymes and protein machines as hydrodynamic force dipoles: The active dimer model*", Soft Matter 16, 10734-10749 (2020).
9. S. C. Al-Izzi, P. Sens, M. S. Turner, and S. Komura, "*Dynamics of passive and active membrane tubes*", Soft Matter 16, 9319-9330 (2020).

10. K. Yasuda, M. Kuroda, and S. Komura, "*Reciprocal microswimmers in a viscoelastic fluid*", Phys. Fluids 32, 093102 (7pp) (2020).

11. S. Komura, "*Brownian motion confined in a Brownian surface*", JPSJ News and Comments 17, 08 (2020).

12. C.-C. Liang, K. Yasuda, S. Komura, K.-A. Wu, and H.-Y. Chen, "*Dynamics of a membrane coupled to an active fluid*", Phys. Rev. E 101, 042601 (10pp) (2020).

13. Y. Hosaka, S. Komura, and D. Andelman, "*Shear viscosity of two-state enzyme solutions*", Phys. Rev. E 101, 012610 (11pp) (2020).

14. I. Sou, Y. Hosaka, K. Yasuda, and S. Komura, "*Non-equilibrium probability flux of a thermally driven micromachine*", Phys. Rev. E 100, 022607 (10pp) (2019).

15. M. Kuroda, K. Yasuda, and S. Komura, "*Hydrodynamic interaction between two elastic microswimmers*", J. Phys. Soc. Jpn. 88, 054804 (6pp) (2019).

16. T. Hoshino, M.-W. Liu, K.-A. Wu, H.-Y. Chen, T. Tsuruyama, and S. Komura, "*Pattern formation of skin cancers: Effects of cancer proliferation and hydrodynamic interactions*", Phys. Rev. E 99, 032416 (13pp) (2019). Physics Synopsis

17. R. M. Adar, Y. Uematsu, S. Komura, and D. Andelman, "*Linear response functions of an electrolyte solution in a uniform flow*", Phys. Rev. E 98, 032604 (10pp) (2018).

18. K. Yasuda, R. Okamoto, and S. Komura, "*A three-sphere microswimmers in a structured fluid*", EPL 123, 34002 (6pp) (2018).

19. Y. Ota, Y. Hosaka, K. Yasuda, and S. Komura, "*Three-disk microswimmer in a supported fluid membrane*", Phys. Rev. E 97, 052612 (7pp) (2018).

20. K. Yasuda, R. Okamoto, S. Komura, and J.-B. Fournier, "*Dynamics of a bilayer membrane with membrane-solvent slip boundary conditions*", Soft Materials 16, 186-191 (2018).

21. T. V. Sachin Krishnan, K. Yasuda, R. Okamoto, and S. Komura, "*Thermal and active fluctuations of a compressible bilayer vesicle*", J. Phys.: Condens. Matter 30, 175101 (9pp) (2018).

22. G. Swaminath Bharadwaj, P. B. Sunil Kumar, S. Komura, and Abhijit P. Deshpande, "*Kosmotropic effect leads to LCST decrease in thermoresponsive polymer solutions*", J. Chem. Phys. 148, 084903 (12pp) (2018).

23. T. Hoshino, S. Komura, and D. Andelman, "*Permeation through a lamellar stack of lipid mixtures*", EPL 120, 18004 (4pp) (2017).

24. I. Sou, R. Okamoto, S. Komura, and J. Wolff, "*Coexistences of lamellar phases in ternary surfactant solutions*", Soft Materials 15, 272-281 (2017).

25. K. Yasuda, Y. Hosaka, I. Sou, R. Okamoto, and S. Komura, "*Thermally driven elastic microswimmer*", J. Phys. Soc. Jpn. 86, 113801 (4pp) (2017).

26. K. Yasuda, Y. Hosaka, M. Kuroda, R. Okamoto, and S. Komura, "*Elastic three-sphere microswimmer in a viscous fluid*", J. Phys. Soc. Jpn. 86, 093801 (4pp) (2017).

27. R. Okamoto, S. Komura, and J.-B. Fournier, "*Dynamics of a bilayer membrane coupled to a two-dimensional cytoskeleton and scale transfers of membrane deformations*", Phys. Rev. E 96, 012416 (10pp) (2017).

28. Y. Hosaka, K. Yasuda, R. Okamoto, and S. Komura, "*Lateral diffusion induced by active proteins in a biomembrane*", Phys. Rev. E 95, 052407 (10pp) (2017).

29. K. Yasuda, R. Okamoto, and S. Komura, "*Swimmer-microrheology*", J. Phys. Soc. Jpn. 86, 043801 (4pp) (2017). Papers of Editors' Choice

30. K. Yasuda, R. Okamoto, and S. Komura, "*Anomalous diffusion in viscoelastic media with active force dipoles*", Phys. Rev. E 95, 032417 (14pp) (2017).

31. K. Yasuda, R. Okamoto, S. Komura, and A. S. Mikhailov, "*Localization and diffusion of tracer particles in viscoelastic media with active force dipoles*", EPL 117, 38001 (7pp) (2017).

32. G. Swaminath Bharadwaj, P. B. Sunil Kumar, S. Komura, and Abhijit P. Deshpande, "*Spherically symmetric solvent is sufficient to explain lower critical solution temperature in polymer solutions*", Macromol. Theory Simul. 26, 1600073 (11pp) (2017).

33. T. V. Sachin Krishnan, R. Okamoto, and S. Komura, "*Relaxation dynamics of a compressible bilayer vesicle containing highly viscous fluid*, Phys. Rev. E 94, 062414 (14pp) (2016).

34. J. Wolff, S. Komura, and D. Andelman, "*Budding transition of asymmetric two-component lipid domains*", Phys. Rev. E 94, 032406 (9pp) (2016).

35. N. Shimokawa, H. Himeno, T. Hamada, M. Takagi, S. Komura, and D. Andelman, "*Phase diagrams and ordering in charged membranes: Binary mixtures of charged and neutral lipids*", J. Phys. Chem. B 120, 6358-6367 (2016).

36. K. Yasuda, S. Komura, and R. Okamoto, "*Dynamics of a membrane interacting with an active wall*", Phys. Rev. E 93, 052407 (2016).

37. R. Okamoto, N. Shimokawa, and S. Komura, "*Nano-domain formation in charged membranes: Beyond Debye-Hückel approximation*", EPL 114, 28002 (2016).

38. R. Okamoto, Y. Kanemori, S. Komura, and J.-B. Fournier, "*Relaxation dynamics of two-component fluid bilayer membranes*", Eur. Phys. J. E 39, 52 (2016).

39. T. Hoshino, S. Komura, and D. Andelman, "*Correlated lateral phase separations in stacks of lipid membranes*", J. Chem. Phys. 143, 243124 (9pp) (2015).

40. S. Komura, K. Yasuda, and R. Okamoto, "*Dynamics of two-component membranes surrounded by viscoelastic media*", J. Phys.: Condens. Matter 27, 432001 (7pp) (2015).

41. J. Wolff, S. Komura, and D. Andelman, "*Budding of domains in mixed bilayer membranes*", Phys. Rev. E 91, 012708 (10pp) (2015).

42. H. Himeno, N. Shimokawa, S. Komura, D. Andelman, T. Hamada, and M. Takagi, "*Charge-induced phase separation in lipid membranes*", Soft Matter 10, 7959-7967 (2014).

43. S. Fujii, S. Komura, and C.-Y. D. Lu, "*Structural rheology of the smectic phase*", Materials 7, 5146-5168 (2014).

44. S. Fujii, S. Komura, and C.-Y. D. Lu, "*Structural rheology of focal conic domains: a stress-quench experiment*", Soft Matter 10, 5289-5295 (2014).

45. S. Komura and D. Andelman, "*Physical aspects of heterogeneities in multi-component lipid membranes*", Adv. Coll. Int. Sci. 208, 34-46 (2014).

46. K. Seki, S. Mogre, and S. Komura, "*Diffusion coefficients in leaflets of bilayer membranes*", Phys. Rev. E 89, 022713 (12pp) (2014).

47. R. Okamoto, Y. Fujitani, and S. Komura, "*Drag coefficient of a rigid spherical particle in a near-critical binary fluid mixture*", J. Phys. Soc. Jpn. 82, 084003 (10pp) (2013). Papers of Editors' Choice

48. K. Seki, S. Komura, and S. Ramachandran, "*Growth kinetics of circular liquid domains on vesicles by diffusion-controlled coalescence*", J. Phys.: Condens. Matter 25, 195105 (8pp) (2013).

49. C.-Y. D. Lu, S. Komura, and K. Seki, "*Viscoelasticity of two-layer-vesicles in solution*", Phys. Rev. E 86, 061401 (11pp) (2012).

50. S. Komura, S. Ramachandran, and K. Seki, "Lateral dynamics in polymer-supported membranes", Materials 5, 1923-1932 (2012).

51. Y. Hirose, S. Komura, and D. Andelman, "*Concentration fluctuations and phase transitions in coupled modulated bilayers*", Phys. Rev. E 86, 021916 (13pp) (2012).

52. S. Komura, S. Ramachandran, and K. Seki, "*Anomalous lateral diffusion in a viscous membrane surrounded by viscoelastic media*", EPL 97, 68007 (6pp) (2012).

53. N. Shimokawa, S. Komura, and D. Andelman, "*Charged bilayer membranes in asymmetric ionic solutions: Phase diagrams and critical behavior*", Phys. Rev. E 84, 031919 (10pp) (2011).

54. K. Seki, S. Ramachandran, and S. Komura, "*Diffusion coefficient of a circular inclusion in a liquid membrane supported by a solvent of arbitrary thickness*", Phys. Rev. E 84, 021905 (10pp) (2011). Physics Synopsis

55. S. Fujii, S. Komura, Y. Ishii, and C.-Y. D. Lu, "*Elasticity of smectic liquid crystals with focal conic domains*", J. Phys.: Condens. Matter 23, 235105 (7pp) (2011).

56. S. Ramachandran, S. Komura, K. Seki, and G. Gompper, "*Dynamics of a polymer chain confined in a membrane*", Eur. Phys. J. E 34, 11046-3 (13pp) (2011).

57. S. Ramachandran, S. Komura, K. Seki, and M. Imai, "*Hydrodynamic effects on concentration fluctuations in multicomponent membranes*", Soft Matter 7, 1524-1531 (2011).

58. S. Ramachandran and S. Komura, "*Hydrodynamic coupling between two fluid membranes*", J. Phys.: Condens. Matter 23, 72205 (5pp) (2011). IOP Select

59. S. Fujii, Y. Ishii, S. Komura, and C.-Y. David Lu, "*Smectic rheology close to the smectic-nematic transition*", EPL 90, 64001 (6pp) (2010).

60. S. Ramachandran, S. Komura, and G. Gompper, "*Effects of bulk fluid on membrane phase separation dynamics*", EPL 89, 56001 (6pp) (2010).

61. S. Ramachandran, S. Komura, M. Imai, and K. Seki, "*Drag coefficient of a liquid domain in a two-dimensional membrane*", Eur. Phys. J. E 31, 303-310 (2010).

62. Y. Hirose, S. Komura, and D. Andelman, "*Coupled modulated bilayers: A phenomenological model*", ChemPhysChem 10, 2839-2846 (2009). cover of the volume

63. N. Shimokawa and S. Komura, "*Morphological transition and emulsification failure in globular microemulsions*", J. Chem. Phys. 131, 094508 (8pp) (2009).

64. Y. Hirose, S. Komura, and T. Kato, "*Adsorption dynamics in Pickering emulsions*", Prog. Theor. Phys. 175, 81-92 (2008).

65. Y. Suganuma, N. Urakami, R. Mawatari, S. Komura, K. Nakaya-Yaegashi, and M. Imai, "*Lamellar to micelle transition of nonionic surfactant assemblies induced by addition of colloidal particles*", J. Chem. Phys. 129, 134903 (10pp) (2008).

66. S. C. Sharma, K. Tsuchiya, K. Sakai, H. Sakai, M. Abe, S. Komura, K. Sakamoto, and R. Miyahara, "*Formation and characterization of microemulsions containing polymeric silicone*", Langmuir 24, 7658-7662 (2008).

67. N. Shimokawa, S. Komura, and D. Andelman, "*The phase behavior of mixed lipid membranes in presence of the rippled phase*", Eur. Phys. J. E 26, 197-204 (2008).

68. Y. Sakuma, M. Imai, M. Yanagisawa, and S. Komura, "*Adhesion of binary giant vesicles containing negative spontaneous curvature lipids induced by phase separation*", Eur. Phys. J. E 25, 403-413 (2008).

69. S. Komura and N. Shimokawa, "*Dynamical Brazovskii effect*", Soft Materials 6, 85-95 (2008).

70. K. Yamada and S. Komura, "*Dynamics of order-order phase separation*", J. Phys.: Condens. Matter 20, 155107 (10pp) (2008).

71. C.-Y. D. Lu, P. Chen, Y. Ishii, S. Komura, and T. Kato "*Non-linear rheology of lamellar liquid crystals*", Eur. Phys. J. E 25, 91-101 (2008).

72. Y. Nonomura and S. Komura, "*Surface-activity of solid particles with extremely rough surfaces*", J. Colloid Int. Sci. 317, 501-506 (2008).

73. S. Komura, "*Mesoscale structures in microemulsions*", J. Phys.: Condens. Matter 19, 463101 (30pp) (2007).

74. Y. Hirose, S. Komura, and Y. Nonomura, "*Adsorption of Janus particles to curved interfaces*", J. Chem. Phys. 127, 054707 (2007).

75. K. Miyazaki, Y. Kosaka, Y. Kawabata, S. Komura, and T. Kato, "*Shear-induced structural transition in the lamellar phase of C16/D2O system: Time evolution of small-angle neutron scattering at a constant shear rate*", J. App. Cryst. 40, s332-s334 (2007).

76. K. Seki, S. Komura, and M. Imai, "*Concentration fluctuations in binary fluid membranes*", J. Phys.: Condens. Matter 19, 072101 (8pp) (2007). IOP Select

77. M. Yanagisawa, M. Imai, T. Masui, S. Komura, and T. Ohta, "*Growth dynamics of domains in ternary fluid vesicles*", Biophys. J. 92, 115-125 (2007).

78. S. Mochizuki, S. Komura, and T. Kato, "*Effects of added electrolytes on the structure of charged polymeric micelles*", Soft Materials 3, 89-120 (2006).

79. S. Komura, N. Shimokawa, and D. Andelman, "*Tension-induced morphological transition in mixed lipid bilayers*", Langmuir 22, 6771-6774 (2006).

80. S. Komura, Y. Hirose, and Y. Nonomura, "*Adsorption of colloidal particles in Pickering emulsions*", J. Chem. Phys. 124, 241104 (2006).

81. Y. Nonomura, S. Komura, and K. Tsujii, "*Adsorption of microstrctured particles at liquid-liquid interfaces*", J. Phys. Chem. B 110, 13124-13129 (2006).

82. S. Komura, N. Shimokawa, and T. Kato, "*Unbinding and preunbinding in binary surfactant solutions*", J. Chem. Phys. 124, 034906 (2006).

83. S. Komura, K. Tamura, and T. Kato, "*Buckling of spherical shells adhering onto a rigid substrate*", Eur. Phys. J. E 18, 343-358 (2005).

84. Y. Nonomura, S. Komura, and K. Tsujii, "*Surface-active particles with microstructured surfaces*", Langmuir 21, 9409-9411 (2005).

85. K. Nakaya, M. Imai, S. Komura, T. Kawakatsu, and N. Urakami, "*Polymer-confinement-induced nematic transition of microemulsion droplets*", Europhys. Lett. 71, 494-500 (2005).

86. S. Komura, H. Shirotori, and P. D. Olmsted, "*Phase behavior of three-component lipid mixtures*", J. Phys.: Condens. Matter 53, S2951-S2956 (2005).

87. M. Imai, Y. Suganuma, K. Nakaya, and S. Komura, "*Surfactant mesophases mediated by colloidal particles*", J. Phys.: Condens. Matter 53, S2929-S293 (2005).

88. T. Kato, K. Miyazaki, Y. Kawabata, S. Komura, M. Fujii, and M. Imai, "*Shear-induced structural transition in a lyotropic lamellar phase studied by small-angle neutron and light scattering*", J. Phys.: Condens. Matter 53, S2923-S2928 (2005).

89. Y. Nonomura, S. Komura, and K. Tsujii, "*Adsorption of plate-shaped Janus beads at liquid-liquid interfaces*", Langmuir 20, 11821-11823 (2004).

90. Y. Nonomura, S. Komura, and K. Tsujii, "*Adsorption of rod-shaped surface-active particles at liquid-liquid interfaces*", J. Oleo Sci. 53, 607-610 (2004).

91. T. Kato, K. Minewaki, K. Miyazaki, Y. Kawabata, T. Shikata, S. Komura, and M. Fujii, "*Effects of shear flow on structures of lamellar phase in a nonionic surfactant/water system*", Prog. Colloid Polym. Sci. 129, 9-15 (2004).

92. K. Tamura, S. Komura, and T. Kato, "*Adhesion induced buckling of spherical shells*", J. Phys.: Condens. Matter 16, L421-L428 (2004).

93. S. Komura, H. Shirotori, P. D. Olmsted, and D. Andelman, "*Lateral phase separation in mixtures of lipids and cholesterol systems*", Europhys. Lett. 67, 321-327 (2004).

94. M. Imai, R. Mawatari, K. Nakaya, and S. Komura, "*Inter-lamellar interactions modulated by addition of guest components*", Eur. Phys. J. E 13, 391-400 (2004).

95. S. Komura, K. Tamura, and T. Kato, "*Deformation of adhering elastic nanotubes*", Eur. Phys. J. E 13, 73-77 (2004).

96. Y. Kawabata, M. Nagao, H. Seto, S. Komura, T. Takeda, D. Schwahan, N. L. Yamada, and H. Nobutou, "*Temperature and pressure effects on the bending modulus of monolayers in a ternary microemulsion*", Phys. Rev. Lett. 92, 056103 (4pp) (2004).

97. Y. Nonomura, K. Fukuda, S. Komura, and K. Tsujii, "*Self-assembly of surface-active powder at the interfaces of selective liquids 2: The behavior of the organic-crystalline powder*", Langmuir 19, 10152-10156 (2003).

98. S. Komura and D. Andelman, "*The unbinding transition of mixed fluid membranes*", Europhys. Lett. 64, 844-850 (2003).

99. S. Komura, H. Shirotori, and T. Kato, "*Phase behavior of charged lipid bilayer membranes with added electrolyte*", J. Chem. Phys. 119, 1157-1164 (2003).

100. S. Komura, H. Kodama, and K. Tamura, "*Real-space mean-field approach to polymeric microemulsions*", J. Chem. Phys. 117, 9903-9919 (2002).

101. Y. Kawabata, M. Nagao, H. Seto, S. Komura, T. Takeda, and D. Schwahan, "*Neutron spin echo studies of the effects of temperature and pressure in a ternary microemulsion*", Appl. Phys. A 75, S534-536 (2002).

102. T. R. Weikl, D. Andelman, S. Komura, and R. Lipowsky, "*Adhesion of membranes with competing specific and generic interactions*", Eur. Phys. J. E 8, 59-66 (2002).

103. U. S. Schwarz, S. A. Safran, and S. Komura, "*Mechanical, adhesive and thermodynamic properties of hollow nanoparticles*", Mat. Res. Soc. Symp. Proc. 651, T5.3.1-5.3.6 (2001).

104. S. Komura and S. A. Safran, "*Scaling theory of mixed amphiphilic monolayers*", Eur. Phys. J. E 5, 337-351 (2001).

105. H. Kodama, S. Komura, and K. Tamura, "*Mean-field approach to polymeric microemulsions*", Europhys. Lett. 53, 46-52 (2001).

106. S. Komura and D. Andelman, "*Adhesion-induced phase separation in multicomponent membranes*", Eur. Phys. J. E 3, 259-271 (2000).

107. U. S. Schwarz, S. Komura, and S. A. Safran, "*Deformation and tribology of multi-walled hollow nanoparticles*", Europhys. Lett. 50, 762-768 (2000).

108. S. Komura and Ou-Yang Zhong-can, "*High- and low-pitch helical structures of tilted chiral lipid bilayers*", Phys. Rev. Lett. 81, 473-476 (1998).

109. S. Komura and H. Kodama, "*Microemulsions under steady shear flow*", Prog. Colloid Polym. Sci. 106, 75-78 (1997).

110. S. Komura and T. Iwayama, "*Kelvin-Helmholtz instability of Langmuir monolayers*", J. de Physique II 7, 1331-1335 (1997).

111. H. Kodama and S. Komura, "*Bicontinuous microemulsions under steady shear flow*", J. de Physique II 7, 7-14 (1997).

112. S. Komura and H. Kodama, "*Two-order-parameter model for oil-water-surfactant system*", Phys. Rev. E 55, 1722-1727 (1997).

113. S. Komura, K. Seki, and K. Miyazaki, "*Diffusion constant of proteins in biomembranes*", Bussei Kenkyu 66, 412-413 (1996).

114. S. Mori and S. Komura, "*Monte Carlo study of self-avoiding polymerized membrane with negative bending rigidity*", J. Phys. A 29, 7439-7449 (1996).

115. S. Komura, J. Fukuda, and G. Paquette, "*Interface dynamics in a block copolymer melt and effect of noise*", Phys. Rev. E 53, R5588-R5591 (1996).

116. S. Komura and J. Fukuda, "*Scattering function of disordered phase of block copolymers under shear flow*", Phys. Lett. A 208, 108-112 (1995).

117. K. Seki and S. Komura, "*Viscoelasticity of vesicle dispersions*", Physica A 219, 253-289 (1995).

118. S. Komura and K. Seki, "*Diffusion constant of a polymer chain in biomembranes*", J. de Physique II 5, 5-9 (1995).

119. H. Kodama and S. Komura, "*Frustration-induced ripple phase in bilayer membranes*", J. de Physique II 3, 1305-1311 (1993).

120. K. Seki and S. Komura, "*Brownian dynamics in a thin sheet with momentum decay*", Phys. Rev. E 47, 2377-2383 (1993).

121. S. Komura and K. Seki, "*Dynamical fluctuations of spherically closed fluid membranes*", Physica A 92, 27-46 (1993).

122. S. Komura and R. Lipowsky, "*Fluctuation and instability of polymerized vesicles*", J. de Physique II 2, 1563-1575 (1992).

123. S. Komura and A. Baumgärtner, "*Tethered vesicles at constant pressure: Monte Carlo study and scaling analysis*", Phys. Rev. A 44, 3511-3518 (1991).

124. S. Komura and A. Baumgärtner, "*Spectral dimension of fluid membranes*", J. de Physique 51, 2395-2398 (1990).

125. S. Komura, Y. Ohta, and S. Kawato, "*A theory of optical anisotropy decay in membranes*", J. Phys. Soc. Jpn. 59, 2584-2595 (1990).

126. S. Komura, T. Miyazawa, T. Izuyama, and Y. Fukumoto, "*Sound attenuation in a one-dimensional periodic inhomogeneous medium*", J. Phys. Soc. Jpn. 59, 101-110 (1990).

Conference Proceedings (Refereed)

1. Y. Sakuma, N. Urakami, Y. Ogata, M. Nagao, S. Komura, T. Kawakatsu, and M. Imai, "*Diffusion of domains on nanometer sized vesicle*", J. Phys.: Conf. Ser. 251, 012036 (2010).

2. Y. Sakuma, N. Urakami, Y. Ogata, M. Nagao, S. Komura, and M. Imai, "*Dynamics of nano - meter - sized domains on a vesicle*", AIP Conf. Proc. 982, 717 (2008).

3. K. Tamura, S. Komura, and T, Kato, "*Deformation of adhering elastic tubes*", "*Slow Dynamics in Complex Systems*" edited by M. Tokuyama and I. Oppenheim (American Institute of Physics), 743-744 (2004).

4. S. Kinouchi, K. Tamura, S. Komura, T. Kato, and Y. Y. Suzuki, "*A lattice model of the protein diffusion in membranes*", "*Slow Dynamics in Complex Systems*" edited by M. Tokuyama and I. Oppenheim (American Institute of Physics), 338-339 (2004).

5. H. Shirotori, S. Komura, T, Kato, and P. D. Olmsted, "*Phenomenological models of raft structure*", "*Slow Dynamics in Complex Systems*" edited by M. Tokuyama and I. Oppenheim (American Institute of Physics), 334-335 (2004).

6. S. Komura and D. Andelman, "*The unbinding transition of mixed fluid membranes*", "*Slow Dynamics in Complex Systems*" edited by M. Tokuyama and I. Oppenheim (American Institute of Physics), 130-131 (2004).

7. K. Nakaya, M. Imai, S. Komura, and N. Urakami, "*Morphology transition from sphere to rod confining the polymer chains in a dilute microemulsion system*", "*Slow Dynamics in Complex Systems*" edited by M. Tokuyama and I. Oppenheim (American Institute of Physics), 106-107 (2004).

8. H. Kodama and S. Komura, "*Mean-field studies of block copolymer/homopolymers blends*", "*Statistical Physics*" edited by M. Tokuyama and H. E. Stanley (American Institute of Physics), 247-249 (2000).

9. S. Komura H. Kodama, and K. Tamura, "*Origin of polymeric microemulsions*", "*Slow Dynamics in Complex Systems*" edited by M. Tokuyama and I. Oppenheim (American Institute of Physics), 188-189 (1999).

10. S. Komura and Ou-Yang Zhong-can, "*High- and low-pitch helical structures of tilted chiral lipid bilayers*", "*Slow Dynamics in Complex Systems*" edited by M. Tokuyama and I. Oppenheim (American Institute of Physics), 168-169 (1999).
11. S. Komura and T. Iwayama, "*Kelvin-Helmholtz instability of Langmuir monolayers*", "*Statistical Physics*" edited by M. Tokuyama and I. Oppenheim (World Scientific), 64 (1998).
12. S. Komura and A. Baumgärtner, "*Monte Carlo study of vesicles*", "*Slow Dynamics in Condensed Matter*" edited by K. Kawasaki, M. Tokuyama, and T. Kawakatsu (American Institute of Physics), 567-568 (1992).
13. S. Komura and T. Izuyama, "*Hydrodynamic interprotein interaction in a biomembrane*", "*Dynamics and Patterns in Complex Fluids*" edited by A. Onuki and K. Kawasaki (Springer-Verlag), 36-37 (1990).

Japanese Translation

1. Samuel A. Safran, "*Statistical Thermodynamics of Surfaces, Interfaces, and Membranes*" (Addison-Wesley, 1994)
2. Ian W. Hamley, "*Introduction to Soft Matter: Polymers, Colloids, Amphiphiles and Liquid Crystals*" (John Wiley & Sons, 2000)
3. Thomas A. Witten and Philip A. Pincus, "*Structured Fluids: Polymers, Colloids, Surfactants*" (Oxford University Press, 2004)

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