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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 and Engineering, 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, “*Theoretical Study on Cell Rheology*”, The Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan. 3.4 million yen (2015–2018)
- 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 (2013–2018)
- Grant-in-Aid for Scientific Research, “*Dynamics of Heterogeneity in Biomembranes*”, The Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan. 3.7 million yen (2012–2015)
- 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 (2011–2014)
- Grant-in-Aid for Scientific Research, “*Non-Linear Rheology of Lamellar Phase and Smectic Phase*”, The Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan. 3.64 million yen (2009–2012)
- 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 (2006–2011)

- Grant-in-Aid for Scientific Research, “*Theory for Controlling Pickering Emulsions*”, The Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan. 2.26 million yen (2006–2009)
- Grant-in-Aid for Scientific Research, “*Effects of Shear Flow on the Structures of Lamellar Liquid Crystals and Slow Dynamics*”, The Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan. Headed by T. Kato (Tokyo Metropolitan Univ.) 15 million yen (2003–2006)
- Grant-in-Aid for Scientific Research, “*Theoretical Study on Microdomains in Biomembranes*”, The Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan. 2.7 million yen (2003–2006)
- Grant-in-Aid for Scientific Research, “*Simulation of Large Deformation and Tribology of Elastic Shells*”, The Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan. 1.5 million yen (2001–2003)
- Grant-in-Aid for Scientific Research, “*Rheology of Micro-Phase Separated Systems*”, The Ministry of Education, Science and Culture of Japan. 2.3 million yen (1997–1999)
- 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 (1996–1997)
- Grant-in-Aid for Scientific Research, “*Rheology of Sponge Phases*”, The Ministry of Education, Science and Culture of Japan. 1 million yen (1996–1997)
- 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 (1995–1995)
- Grant-in-Aid for Scientific Research, “*Computer Simulations of Block Copolymers*”, The Ministry of Education, Science and Culture of Japan. 0.9 million yen (1994–1995)
- Grant-in-Aid for Scientific Research, “*Computer Simulations of Membranes*”, The Ministry of Education, Science and Culture of Japan. 0.9 million yen (1993–1994)
- 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 (1993–1994)

Supervision of M.Sc Students

- 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

- 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 Experience

- The University of Tokyo: *"Thermodynamics"* (2010–2011), *"Electromagnetism"* (2011–2015)
- Tokyo Metropolitan University: *"General Chemistry A"*, *"General Chemistry B"*, *"Physical Chemistry Recitation I"*, *"Physical Chemistry Recitation II"*, *"Material Science"*, *"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 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

- 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

- “*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)

Scientific Presentations in the Last 10 Years

- Inside Japan: about 65 presentations
- Outside Japan: about 38 presentations

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*”, to be published in “*Advances in Planar Lipid Bilayers and Liposomes*” edited by A. Iglic (Elsevier, 2012).
2. S. Komura, S. Ramachandran, and M. Imai, “*Hydrodynamic effects in multicomponent fluid membranes*”, “*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*”, “*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*”, “*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. R. M. Adar, Y. Uematsu, *S. Komura, and D. Andelman, “*Linear response functions of an electrolyte solution in a uniform flow*”, to be published in Phys. Rev. E.
2. K. Yasuda, R. Okamoto, and *S. Komura, “*A three-sphere microswimmers in a structured fluid*”, EPL 123, 34002 (6pp) (2018).
3. Y. Ota, Y. Hosaka, K. Yasuda, and *S. Komura, “*Three-disk microswimmer in a supported fluid membrane*”, Phys. Rev. E 97, 052612 (7pp) (2018).
4. 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).
5. 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).
6. 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).
7. T. Hoshino, *S. Komura, and D. Andelman, “*Permeation through a lamellar stack of lipid mixtures*”, EPL 120, 18004 (4pp) (2017).
8. I. Sou, R. Okamoto, *S. Komura, and J. Wolff, “*Coexistences of lamellar phases in ternary surfactant solutions*”, Soft Materials 15, 272-281 (2017).

9. K. Yasuda, Y. Hosaka, I. Sou, R. Okamoto, and *S. Komura, “Thermally driven elastic microswimmer”, *J. Phys. Soc. Jpn.* 86, 113801 (4pp) (2017).
10. 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).
11. *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).
12. 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).
13. K. Yasuda, R. Okamoto, and *S. Komura, “Swimmer-microrheology”, *J. Phys. Soc. Jpn.* 86, 043801 (4pp) (2017).
14. K. Yasuda, R. Okamoto, and *S. Komura, “Anomalous diffusion in viscoelastic media with active force dipoles”, *Phys. Rev. E* 95, 032417 (14pp) (2017).
15. 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).
16. 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).
17. 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).
18. J. Wolff, *S. Komura, and D. Andelman, “Budding transition of asymmetric two-component lipid domains”, *Phys. Rev. E* 94, 032406 (9pp) (2016).
19. *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).
20. K. Yasuda, S. Komura, and R. Okamoto, “Dynamics of a membrane interacting with an active wall”, *Phys. Rev. E* 93, 052407 (2016).
21. R. Okamoto, N. Shimokawa, and S. Komura, “Nano-domain formation in charged membranes: Beyond Debye-Huckel approximation”, *EPL* 114, 28002 (2016).
22. 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).
23. T. Hoshino, S. Komura, and D. Andelman, “Correlated lateral phase separations in stacks of lipid membranes”, *J. Chem. Phys.* 143, 243124 (9pp) (2015).
24. S. Komura, K. Yasuda, and R. Okamoto, “Dynamics of two-component membranes surrounded by viscoelastic media”, *J. Phys.: Condens. Matter* 27, 432001 (7pp) (2015).
25. J. Wolff, S. Komura, and D. Andelman, “Budding of domains in mixed bilayer membranes”, *Phys. Rev. E* 91, 012708 (10pp) (2015).
26. 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).

27. S. Fujii, S. Komura, and C.-Y. D. Lu, "Structural rheology of the smectic phase", *Materials* **7**, 5146-5168 (2014).
28. 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).
29. S. Komura and D. Andelman, "Physical aspects of heterogeneities in multi-component lipid membranes", *Adv. Coll. Int. Sci.* **208**, 34-46 (2014).
30. K. Seki, S. Mogre, and S. Komura, "Diffusion coefficients in leaflets of bilayer membranes", *Phys. Rev. E* **89**, 022713 (12pp) (2014).
31. 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).
32. 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).
33. C.-Y. D. Lu, S. Komura, and K. Seki, "Viscoelasticity of two-layer-vesicles in solution", *Phys. Rev. E* **86**, 061401 (11pp) (2012).
34. S. Komura, S. Ramachandran, and K. Seki, "Lateral dynamics in polymer-supported membranes", *Materials* **5**, 1923-1932 (2012).
35. Y. Hirose, S. Komura, and D. Andelman, "Concentration fluctuations and phase transitions in coupled modulated bilayers", *Phys. Rev. E* **86**, 021916 (13pp) (2012).
36. S. Komura, S. Ramachandran, and K. Seki, "Anomalous lateral diffusion in a viscous membrane surrounded by viscoelastic media", *EPL* **97**, 68007 (6pp) (2012).
37. 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).
38. 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
39. 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).
40. 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).
41. S. Ramachandran, S. Komura, K. Seki, and M. Imai, "Hydrodynamic effects on concentration fluctuations in multicomponent membranes", *Soft Matter* **7**, 1524-1531 (2011).
42. S. Ramachandran and S. Komura, "Hydrodynamic coupling between two fluid membranes", *J. Phys.: Condens. Matter* **23**, 72205 (5pp) (2011). IOP Select
43. S. Fujii, Y. Ishii, S. Komura, and C.-Y. David Lu, "Smectic rheology close to the smectic-nematic transition", *EPL* **90**, 64001 (6pp) (2010).
44. S. Ramachandran, S. Komura, and G. Gompper, "Effects of bulk fluid on membrane phase separation dynamics", *EPL* **89**, 56001 (6pp) (2010).
45. 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).

46. Y. Hirose, S. Komura, and D. Andelman, "Coupled modulated bilayers: A phenomenological model", *ChemPhysChem* **10**, 2839-2846 (2009). cover of the volume
47. N. Shimokawa and S. Komura, "Morphological transition and emulsification failure in globular microemulsions", *J. Chem. Phys.* **131**, 094508 (8pp) (2009).
48. Y. Hirose, S. Komura, and T. Kato, "Adsorption dynamics in Pickering emulsions", *Prog. Theor. Phys.* **175**, 81-92 (2008).
49. 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).
50. 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).
51. 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).
52. 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).
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