Примери за съществени цитирания на трудовете на доц. В. Виткова:

- **Цитирана публикация:**

Vitkova, J. Genova and I. Bivas, “Permeability and Hidden Area of Lipid Bilayers”, *Eur. Biophys. J.*, 33 (8), pp. 706-714 (2004)

Цитираща публикация:

Wataru Shinoda, Permeability across lipid membranes, Biochimica et Biophysica Acta, April 2016, DOI: 10.1016/j.bbamem.2016.03.032;

“…Additionally, no pore formation was noted in the range of stretched membrane area examined, consistent with experimental observations [62].”

[62] V. Vitkova, J. Genova, I. Bivas, **Permeability and the hidden area of lipid bilayers**
Eur. Biophys. J., 33 (8) (2004), pp. 706-714
View Record in Scopus Google Scholar

- **Цитирана публикация:**

Vitkova, J. Genova, M.D. Mitov, and I. Bivas, “Sugars in the aqueous phase change the mechanical properties of lipid mono- and bilayers”, *Mol. Cryst. Liq. Cryst.* 449, pp. 95–106 (2006)

Цитираща публикация:

Sergey A. Akimov, Pavel E. Volynsky, Timur R. Galimzyanov, Peter I. Kuzmin, Konstantin V. Pavlov, Oleg V. Batishchev, Pore formation in lipid membrane I: Continuous reversible trajectory from intact bilayer through hydrophobic defect to transversal pore, Scientific Reports 7, Article number: 12152 (2017), doi:10.1038/s41598-017-12127-7;
https://www.nature.com/articles/s41598-017-12127-7

“… It is shown that the presence of 200 mM of sugar in the bathing solutions can cause a decrease of membrane splay rigidity by a factor of two or more 55; such concentrations are characteristic for experiments with GUVs.”

55. Vitkova, V., Genova, J., Mitov, M. D. & Bivas, I. Sugars in the aqueous phase change the mechanical properties of lipid mono- and bilayers. *Molecular Crystals and Liquid Crystals* **449**, 95–106 (2006). **CAS Article Google Scholar**

- **Цитирана публикация:**

V. Vitkova, M. Mader, and T. Podgorski, “Deformation of vesicles flowing through a capillary”, *Europhys. Lett.*, 68 (3), pp. 398-404 (2004)

Цитираща публикация:

Chelakkot, Raghunath; Winkler, Roland G.; Gompper, Gerhard, Semiflexible polymer conformation, distribution and migration in microcapillary flows, JOURNAL OF PHYSICS-CONDENSED MATTER, 23, 18, 184117 (2011)
https://iopscience.iop.org/article/10.1088/0953-8984/23/18/184117/meta

“…In narrow, homogeneous channels, vesicles assume bullet shapes [34].”

[34] V. Vitkova, M. Mader, and T. Podgorski. Deformation of vesicles flowing through capillaries. Europhys. Lett., 68:398–404, 2004.

- **Цитирана публикация:**

V. Vitkova, M. Mader, and T. Podgorski, “Deformation of vesicles flowing through a capillary”, *Europhys. Lett.*, 68 (3), pp. 398-404 (2004)

Цитираща публикация:

McWhirter, J.L., Noguchi, H., Gompper, G., “Ordering and arrangement of deformed red blood cells in flow through microcapillaries”, New Journal of Physics 14 , art. no. 085026 (2012);
https://iopscience.iop.org/article/10.1088/1367-2630/14/8/085026/meta

“…Optical microscopy experiments on … fluid vesicles (giant unilamellar vesicles) [24] have demonstrated that cells deform into slipper and parachute shapes in capillary flow.”

[24] *Vitkova V, Mader M and Podgorski T 2004 Europhys. Lett.* ***68*** *398* IOPscience Google Scholar

- **Цитирана публикация:**

V. Vitkova, M. Mader, and T. Podgorski, “Deformation of vesicles flowing through a capillary”, *Europhys. Lett.*, 68 (3), pp. 398-404 (2004)

Цитираща публикация:

Preira, P., Valignat, M.-P., Bico, J., Théodoly, O., Single cell rheometry with a microfluidic constriction: Quantitative control of friction and fluid leaks between cell and channel walls,

Biomicrofluidics 7 (2), art. no. 024111 (2013);
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3651258/
Pommella, A., Brooks, N.J., Seddon, J.M., Garbin, V., Selective flow-induced vesicle rupture to sort by membrane mechanical properties (Article), Scientific Reports, Volume 5, 25 August 2015, Article number 13163; https://www.nature.com/articles/srep13163

" …In Figure 5a (see movie), the contour of the contact zone has a higher radius of curvature at the front of the cell than at the rear, which is reminiscent of the shape of floppy vesicles forced into constrictions.[57]"

57. Vitkova V., Mader M., and Podgorski T., Europhys. Lett. 68, 398–404 (2004).10.1209/epl/i2004-10211-9 [CrossRef] [Google Scholar]

- **Цитирана публикация:**

V. Vitkova, M. Mader, and T. Podgorski, "Deformation of vesicles flowing through a capillary", *Europhys. Lett.*, 68 (3), pp. 398-404 (2004)

Цитираща публикация:

Pommella, A., Brooks, N.J., Seddon, J.M., Garbin, V., Selective flow-induced vesicle rupture to sort by membrane mechanical properties (Article), Scientific Reports, Volume 5, 25 August 2015, Article number 13163; https://www.nature.com/articles/srep13163

"…To fulfill this condition, the capillary number describing the resistance to bending in a Poiseuille flow needs to satisfy **36** $Ca_b = \eta UR^2/\kappa_b > 1$, while the capillary number based on the stretching elasticity, $Ca_K = \eta U/K_A$, needs to satisfy…"

36. Vitkova, V., Mader, M. & Podgorski, T. Deformation of vesicles flowing through capillaries. *Europhys. Lett.* **68**, 398 (2004). **Article** **Google Scholar**

- **Цитирана публикация:**

K. Antonova, V. Vitkova and M. D. Mitov, "Deformation of giant vesicles in AC electric fields —Dependence of the prolate-to-oblate transition frequency on vesicle radius", *Europhys. Lett. EPL*, 89 (2010) 38004

Цитираща публикация:

P. Peterlin, Frequency-dependent electrodeformation of giant phospholipid vesicles in AC electric field, J Biol Phys, 36(4): 339–354; DOI 10.1007/s10867-010-9187-3 (2010); https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2923700/

"…Transition frequencies are reciprocally related to the vesicle radius, which is consistent with the recently published findings of another group [27]."

27. Antonova, K., Vitkova, V., Mitov, M.D.: Deformation of giant vesicles in AC electric fields-Dependence of the prolate-to-oblate transition frequency on vesicle radius. EPL **89**, 38004 (2010). doi:10.1209/0295-5075/89/38004

- **Цитирана публикация:**

Vitkova V., Mitkova D., Stoyanova-Ivanova A., Kozarev N., Bivas I. Bending rigidity of lipid membranes and the pH of aqueous surroundings, *C. R. Acad. Bulg. Sci.*, 65 (3), pp. 329-334 (2012)

Цитираща публикация:

Luka Mesarec, Miha Fošnarič, Samo Penič, Veronika Kralj Iglič, Samo Kralj, Wojciech Góźdź, and Aleš Iglič, , Numerical Study of Membrane Configurations, Advances in Condensed Matter Physics, Volume 2014 (2014), Article ID 373674, 7 pages, http://dx.doi.org/10.1155/2014/373674

"…The bending elasticity modulus was experimentally measured in [23]"

23. V. Vitkova, D. Mitkova, A. Stoyanova-Ivanova, N. Kozarev, and I. Bivas, "Bending rigidity of lipid membranes and the ph of aqueous surroundings," Comptes Rendus de L'Academie Bulgare des Sciences, vol. 65, no. 3, pp. 329–334, 2012. View at Google Scholar · View at Scopus

- **Цитирана публикация:**

K. Antonova, V. Vitkova, C. Meyer, Membrane tubulation from giant lipid vesicles in alternating electric fields, *Physical Review E - Statistical, Nonlinear, and Soft Matter Physics* 93, 012413 (2016)

Цитираща публикация:

Dayinta L. Perrier, Lea Rems, Michiel T. Kreutzer & Pouyan E. Boukany, The role of gel-phase domains in electroporation of vesicles, Scientific Reports, volume 8, Article number: 4758 (2018); doi:10.1038/s41598-018-23097-9; https://www.nature.com/articles/s41598-018-23097-9

"…Antonova *et al.*33 recently have proposed a model, which considers that the electrical tension σ_{el} exerts a force tending to form a small membrane bud and elongate it into a membrane tubule, analogous to the force required to mechanically pull a membrane tubule (tether) from a GUV. This is based on their experimental findings of tubule growth in phosphatidylcholine GUVs subjected to non-electroporative AC fields (1–2 kHz) with a stre

They have estimated the force which triggers the tubule formation as 33:

Списък на всички забелязани независими цитирания:

Общо – 343

В чужди списания и сборници – 314; в чуждестранни дисертационни трудове –29.

Цитирания в международни издания

I. Bivas, V. Vitkova, M. D. Mitov, M. Winterhalter, R. G. Alargova, P. Meleard, and P. Bothorel, Mechanical properties of lipid bilayers, containing modified lipids, in "Giant Vesicles", P. Walde and P. L. Luisi eds., John Wiley & Sons, p.207 (2000).

брой цитирания: 2

1. Siegel A.P., Hussain N.F., Johnson M., Naumann C.A., Soft Matter, 8, 5873-5880 (2012).
2. Kent Shilts, Christoph A. Naumann, Tunable cell-surface mimetics as engineered cell substrates. Biochimica et Biophysica Acta (BBA) - Biomembranes (2018), doi: 10.1016/j.bbamem.2018.06.009

V. Vitkova, J. Genova and I. Bivas, "Permeability and Hidden Area of Lipid Bilayers", *Eur. Biophys. J.*, 33 (8), pp. 706-714 (2004)

брой цитирания: 14

3. Inaba, T, Ishijima, A, Honda, M, Nomura, F, Takiguchi, K, Hotani, H "Formation and maintenance of tubular membrane projections require mechanical force, but their elongation and shortening do not require additional force", J. Mol. Biol. 348 (2) pp.325 – 333 (2005)
4. M.-A. Mader, "Dynamique de vésicules en écoulement", Ph.D. Thesis, University of Grenoble "Joseph Fourier" (2006)
5. Alain Gauthier and Béla Joós, "Stretching effects on the permeability of water molecules across a lipid bilayer", J. Chem. Phys. 127, 105104 (2007)
6. C. Minetti, N. Callens, G. Coupier, T. Podgorski, F. Dubois, Fast measurements of concentration profiles inside deformable objects in microflows with reduced spatial coherence digital holography", Appl. Opt. 47 (29), 5305-5314 (2008)
7. Shchelokovskyy P., Tristram-Nagle S., Dimova R., New Journal of Physics, 13, 025004 (2011)
8. Seth, M., Ramachandran, A., Leal, L.G., Direct Measurements of Effect of Counterion Concentration on Mechanical Properties of Cationic Vesicles, Langmuir 2013, 29, 14057−14065, DOI: 10.1021/la403329h
9. Danov, K.D., Stanimirova, R.D., Kralchevsky, P.A., Marinova, K.G., Alexandrov, N.A., Stoyanov, S.D., Blijdenstein, T.B.J., Pelan, E.G., Capillary meniscus dynamometry - Method for determining the surface tension of drops and bubbles with isotropic and anisotropic surface stress distributions, Journal of Colloid and Interface Science, volume 440, year 2015, pp. 168 – 178
10. Manca Pajnič, Barbara Drašler, Vid Šuštar, Judita Lea Krek, Roman Štukelj, Metka Šimundić, Veno Kononenko, Darko Makovec, Henry Hägerstrand, Damjana Drobne, Veronika Kralj-Iglic, Effect of carbon black nanomaterial on biological membranes

revealed by shape of human erythrocytes, platelets and phospholipid vesicles, Journal of Nanobiotechnology, 03/2015; 13. DOI: 10.1186/s12951-015-0087-3

11. Ulysse Delabre, Kasper Feld, Eleonore Crespo, Graeme Whyte, Cecile Sykes, Udo Seifert and Jochen Guck, Deformation of phospholipid vesicles in an optical stretcher, Soft Matter, DOI: 10.1039/c5sm00562k (2015)
12. Jan Steinkühler, Jaime Agudo-Canalejo, Reinhard Lipowsky, Rumiana Dimova, Modulating Vesicle Adhesion by Electric Fields, Biophysical Journal 111(7):1454-1464 · October 2016, DOI: 10.1016/j.bpj.2016.08.029
13. Wataru Shinoda, Permeability across lipid membranes, Biochimica et Biophysica Acta, April 2016, DOI: 10.1016/j.bbamem.2016.03.032
14. Nico Fricke, Rumiana Dimova, GM1 Softens POPC Membranes and Induces the Formation of Micron-Sized Domains, Biophysical Journal, Volume 111, Issue 9, 1 November 2016, Pages 1935–1945
15. Galimzyanov, T.R., Kuzmin, P.I., Pohl, P., Akimov, S.A., Elastic deformations of bolalipid membranes, Soft Matter, Volume 12, Issue 8, 2016, Pages 2357-2364
16. Jan Steinkühler, Philippe De Tillieux, Roland L. Knorr, Reinhard Lipowsky, Rumiana Dimova, Charged giant unilamellar vesicles prepared by electroformation exhibit nanotubes and transbilayer lipid asymmetry, Scientific Reports, volume 8, Article number: 11838 (2018); https://www.nature.com/articles/s41598-018-30286-z

V. Vitkova, J. Genova, M.D. Mitov, and I. Bivas, "Mechanical Properties of Lipid Mono- and Bilayers in the Presence of Small Carbohydrates in the Aqueous Phase", ***C.R. Acad. Bulg. Sci.*****, 57 (6), pp. 55-60 (2004)**

брой цитирания: 1

17. Divet, F, Danker, G, Misbah, C, "Fluctuations and instability of a biological membrane induced by interaction with macromolecules", Phys. Rev. E 72, 041901 (2005)

J. Genova, V. Vitkova, L. Aladgem, P. Méléard, M. D. Mitov, Using Stroboscopic Illumination to Improve the Precision of the Bending Modulus Measured by the Analysis of Thermally Induced Shape Fluctuations of Giant Vesicles, Bulg. J. Phys. 31(1-2) (2004) 68–75.

брой цитирания: 2

18. Dominik Drabika, Magda Przybyło, Grzegorz Chodaczek, Aleš Iglič, Marek Langner, The modified fluorescence based vesicle fluctuation spectroscopy technique for determination of lipid bilayer bending properties, Biochimica et Biophysica Acta (BBA) – Biomembranes, Volume 1858, Issue 2, February 2016, Pages 244-252
19. H. Bouvrais, Mechanical properties of giant vesicle membranes investigated by flickering technique, PhD thesis (2011), Memphys-Center for Biomembrane Physics, University of Southern Denmark, Department of Physics, Chemistry and Pharmacy.

Vitkova V., Genova J., Meleard P., "Influence of alamethicin on the passive water permeability of model lipid membranes and on the morphology of giant lipid vesicles", ***Journal of Materials Science: Materials in Electronics*****, 14 (10-12) , pp. 819-820 (2003)**

брой цитирания: 3

20. Šuštar, V., Zelko, J., Lopalco, P., Lobasso, S., Ota, A., Ulrih, N.P., Corcelli, A., Kralj-Iglič, V., Morphology, biophysical properties and protein-mediated fusion of archaeosomes, PLoS ONE 7 (7) , art. no. e39401 (2012)
21. Zupanc, J., Drobne, D., Drasler, B., Valant, J., Iglic, A., Kralj-Iglic, V., Makovec, D., Rappolt, M., Sartori, B., Kogej, K., Experimental evidence for the interaction of C-60 fullerene with lipid vesicle membranes, Carbon 50 (3) , pp. 1170-1178 (2012)
22. Stukelj, R; Sustar, V; Mrvar-Brecko, A; Veranic, P; Hagerstrand, H; Kralj-Iglic, V; Sevsek, F, Suppression of membrane vesiculation as anticoagulant and anti-metastatic mechanism. Role of stability of narrow necks, GENERAL PHYSIOLOGY AND BIOPHYSICS, Volume: 32 Issue: 1 Pages: 33-45, DOI: 10.4149/gpb_2013007, Published: MAR 2013

J. Genova, V. Vitkova, L. Aladgem, P. Méléard, M. D. Mitov, Using Stroboscopic Illumination to Improve the Precision of the Bending Modulus Measured by the Analysis of Thermally Induced Shape Fluctuations of Giant Vesicles, Bulg. J. Phys. 31(1-2) (2004) 68–75.

брой цитирания: 3

23. H. Bouvrais, Mechanical properties of giant vesicle membranes investigated by flickering technique, PhD thesis (2011), Memphys-Center for Biomembrane Physics, University of Southern Denmark, Department of Physics, Chemistry and Pharmacy.
24. H. Bouvrais, Bending Rigidities of Lipid Bilayers. Their Determination and Main Inputs in Biophysical Studies., Advances in Planar Lipid Bilayers and Liposomes 15, Academic Press, London, (2012) 1–75.
25. D. Drabik, M. Przybyło, G. Chodaczek, A. Iglič, M. Langner, The modified fluorescence based vesicle fluctuation spectroscopy technique for determination of lipid bilayer bending properties, Biochimica et Biophysica Acta 1858, (2016) 244–252.

V. Vitkova, J. Genova, O. Finogenova, Y. Ermakov, M.D. Mitov, and I. Bivas, "Surface Charge Effect on the Lipid Bilayer Elasticity", ***C. R. Acad. Bulg. Sci.*** **57 (11), pp. 25-30 (2004)**

брой цитирания: 6

26. Mansi Seth, Arun Ramachandran, and L. Gary Leal, Direct Measurements of Effect of Counterion Concentration on Mechanical Properties of Cationic Vesicles, Langmuir 2013, 29, 14057−14065, DOI: 10.1021/la403329h
27. David R. Slochower, Yu-Hsiu Wang, Richard W. Tourdot, Ravi Radhakrishnan, Paul A. Janmey, Counterion-mediated pattern formation in membranes containing anionic lipids, Advances in Colloid and Interface Science, Volume 208, June 2014, Pages 177–188
28. M. Doktorova, D. Harries and G. Khelashvili, Determination of bending rigidity and tilt modulus of lipid membranes from real-space fluctuation analysis of molecular dynamics simulations, Phys. Chem. Chem. Phys, DOI: 10.1039/c7cp01921a (2017)

29. Candelaria I. Cámara, Florencia E. Lurgo, Maria Laura Fanani , and Natalia Wilke, Mechanical Stability of Lipid Membranes Decorated with Dextran Sulfate, ACS Omega 2018, 3, 9, 11673-11683
30. Hammad A. Faizi, Shelli L. Frey, Jan Steinkühler, Rumiana Dimova and Petia M. Vlahovska, Bending rigidity of charged lipid bilayer membranes, DOI: 10.1039/C9SM00772E (Paper) Soft Matter, 2019, 15, 6006-6013
31. David Slochower, "Multiscale Simulations Of Phosphatidylinositol Bisphosphate: Understanding Its Biological Role Through Physical Chemistry", University of Pennsylvania (2014) Publicly Accessible Penn Dissertations. Paper 1445.

V. Vitkova, M. Mader, and T. Podgorski, "Deformation of vesicles flowing through a capillary", ***Europhys. Lett.*****, 68 (3), pp. 398-404 (2004)**

брой цитирания: 48

32. Noguchi H., G. Gompper, "Shape transitions of fluid vesicles and red blood cells in capillary flows", Proc. Natl. Acad. Sci. 102 (40), 14159-14264 (2005)
33. Misbah, C, "Vacillating Breathing and Tumbling of Vesicles under Shear Flow", Phys. Rev. Lett. 96, 028104 (2006)
34. Risso, F., Colle-Paillot, F., and Zagzoule, M., "Experimental investigation of a bioartificial capsule flowing in a narrow tube", J. Fluid Mech. vol. 547, pp. 149–173 (2006)
35. Danker, G., Misbah, C., "Rheology of a Dilute Suspension of Vesicles", Phys. Rev. Lett. 98, 088104 (2007)
36. Peyla, P. "Rheology and dynamics of a deformable object in a microfluidic configuration: A numerical study", Europhys. Lett. 80, 34001 (2007)
37. Kaoui, B., G. H. Ristow, I. Cantat, C. Misbah, and W. Zimmermann, "Lateral migration of a two-dimensional vesicle in unbounded Poiseuille flow", Phys. Rev. E 77 (2), 021903 (2008)
38. Marmottant P., T. Biben, S. Hilgenfeldt, "Deformation and rupture of lipid vesicles in the strong shear flow generated by ultrasound-driven microbubbles", Proc. Royal Soc. A – Math. Phys. Eng. Sci. 464 (2095), 1781-1800 (2008)
39. Danker G., C. Verdier, C. Misbah, "Rheology and dynamics of vesicle suspension in comparison with droplet emulsion", Journal of Non-Newtonian Fluid Mechanics 152 (1-3), 156-167 (2008)
40. Hatakenaka, R., Takagi, S., Matsumoto, Y., "The behavior of a lipid bilayer vesicle in a simple shear flow (2nd report, an experimental analysis of an inner flow of a tank-treading vesicle)", Nihon Kikai Gakkai Ronbunshu, B Hen/Transactions of the Japan Society of Mechanical Engineers, Part B, 74 (4), 856-861 (2008)
41. Du, Q., Liu, C., Ryham, R., Wang, X., "Energetic variational approaches in modeling vesicle and fluid interactions ", Physica D: Nonlinear Phenomena 238 (9-10), pp. 923-930 (2009)
42. Noguchi, H., "Swinging and synchronized rotations of red blood cells in simple shear flow", Physical Review E - Statistical, Nonlinear, and Soft Matter Physics 80 (2), art. no. 021902 (2009)

43. Veerapaneni, S.K., Gueyffier, D., Biros, G., Zorin, D., “A numerical method for simulating the dynamics of 3D axisymmetric vesicles suspended in viscous flows”, Journal of Computational Physics 228 (19), pp. 7233-7249 (2009)
44. Bui, C., V. Lleras, O. Pantz, “Dynamics of red blood cells in 2D”, ESAIM: Proceedings, August 2009, Vol. 28, p. 182-194
45. Guido, S., Tomaiuolo, G., “Microconfined flow behavior of red blood cells in vitro”, Comptes Rendus Physique 10 (8), pp. 751-763 (2009)
46. Noguchi H, Gompper G, Schmid L, Wixforth A, Franke T, "Dynamics of fluid vesicles in flow through structured microchannels” EPL Volume: 89 Issue: 2 Article Number: 28002 Published: JAN 2010
47. Walde, P., Cosentino, K., Engel, H., Stano, P. Giant Vesicles: Preparations and Applications (2010) ChemBioChem, 11 (7), pp. 848-865.
48. Reyes MAH, Mendez-Lavielle F, Geffroy E, A note on a traveling wave on an extensible capsule membrane-with bending rigidity- in poiseuille flow, REVISTA MEXICANA DE FISICA Volume: 56 Issue: 3 Pages: 239-244 Published: JUN 2010
49. Kaoui, B; Tahiri, N; Biben, T; Ez-Zahraouy, H; Benyoussef, A; Biros, G; Misbah, C, Complexity of vesicle microcirculation, PHYSICAL REVIEW E 84, 4, 041906 (2011)
50. Braunmueller, S.; Schmid, L.; Franke, T., Dynamics of red blood cells and vesicles in microchannels of oscillating width, JOURNAL OF PHYSICS-CONDENSED MATTER, 23, 18, 184116 (2011)
51. Chelakkot, Raghunath; Winkler, Roland G.; Gompper, Gerhard, Semiflexible polymer conformation, distribution and migration in microcapillary flows, JOURNAL OF PHYSICS-CONDENSED MATTER, 23, 18, 184117 (2011)
52. Barthes-Biesel, Dominique, Modeling the motion of capsules in flow, CURRENT OPINION IN COLLOID & INTERFACE SCIENCE, 16, 1, 3-12 (2011)
53. McWhirter, J. Liam; Noguchi, Hiroshi; Gompper, Gerhard, Deformation and clustering of red blood cells in microcapillary flows, SOFT MATTER, 7, 22, 10967-10977 (2011)
54. McWhirter, J.L., Noguchi, H., Gompper, G., “Ordering and arrangement of deformed red blood cells in flow through microcapillaries”, New Journal of Physics 14 , art. no. 085026 (2012)
55. Preira, P., Valignat, M.-P., Bico, J., Théodoly, O., Single cell rheometry with a microfluidic constriction: Quantitative control of friction and fluid leaks between cell and channel walls, Biomicrofluidics 7 (2), art. no. 024111 (2013)
56. Abreu, D., Levant, M., Steinberg, V., Seifert, U., Fluid vesicles in flow, Advances in Colloid and Interface Science, Volume 208, June 2014, Pages 129-141
57. Trozzo, R , Boedec, G., Leonetti, M., Jaeger, M., Axisymmetric boundary element method for vesicles in a capillary, Journal of Computational Physics, Volume 289, May 05, 2015, Pages 62-82
58. Giovanna Tomaiuolo, Luca Lanotte, Rosa D'Apolito, Antonio Cassinese, Stefano Guido, Microconfined flow behavior of red blood cells, MEDICAL ENGINEERING & PHYSICS · JUNE 2015,· DOI: 10.1016/j.medengphy.2015.05.007
59. Pommella, A., Brooks, N.J., Seddon, J.M., Garbin, V., Selective flow-induced vesicle rupture to sort by membrane mechanical properties (Article), Scientific Reports, Volume 5, 25 August 2015, Article number 13163
60. Barthès-Biesel, D., Motion and Deformation of Elastic Capsules and Vesicles in Flow (Article), Annual Review of Fluid Mechanics, Volume 48, 3 January 2016, Pages 25-52

61. As'ad Alizadeh, Abdolrahman Dadvand, Mehdi Bakhshan, Hydrodynamic interaction of multiple flexible membranes and initial position effect of a membrane on its behavior in a microchannel, Modares Mechanical Engineering, Vol. 16, No. 8, pp. 355-364, 2016 (in Persian)
62. Angelo Pommella, Dario Donnarumma, Sergio Caserta and Stefano Guido, Dynamic behaviour of Multilamellar Vesicles under Poiseuille flow, Soft Matter, 2017,13, 6304-6313, DOI:10.1039/C7SM00867H
63. Xiaolei Chu, Xiang Yu, Joseph Greenstein, Fikret Aydin, Geetartha Uppaladadium, and Meenakshi Dutt, Flow-Induced Shape Reconfiguration, Phase Separation, and Rupture of Bio-Inspired Vesicles, ACS Nano, 2017, 11 (7), pp 6661–6671, DOI: 10.1021/acsnano.7b00753; Publication Date (Web): June 5, 2017
64. Shamim M. Ahmmed, Naureen S. Suteria, Valeria Garbin, Siva A. Vanapalli, Hydrodynamic mobility of confined polymeric particles, vesicles and cancer cells in a square microchannel, arXiv:1711.02187 [cond-mat.soft], Mon, 6 Nov 2017
65. Zeina S Khan, Nabiollah Kamyabi, Fazle Hussain and Siva A Vanapalli, Passage times and friction due to flow of confined cancer cells, drops, and deformable particles in a microfluidic channel, Zeina S Khan et al 2017 Converg. Sci. Phys. Oncol. 3 02400, DOI: https://doi.org/10.1088/2057-1739/aa5f60
66. Simona Sitar, Valerija Vezočnik, Peter Maček, Ksenija Kogej, David Pahovnik, and Ema Žagar, Pitfalls in Size Characterization of Soft Particles by Dynamic Light Scattering Online Coupled to Asymmetrical Flow Field-Flow Fractionation, Anal. Chem., 2017, 89 (21), pp 11744–11752; DOI: 10.1021/acs.analchem.7b03251; Publication Date (Web): October 4, 2017
67. J Gubspun, C de Loubens, R Trozzo, J Deschamps, M Georgelin, F Edwards-Levy and M Leonetti, Perturbations of the flow induced by a microcapsule in a capillary tube, Published 17 March 2017, Fluid Dynamics Research, Volume 49, Number 3
68. Alison Harman, Martine Bertrand, Béla Joós, Deformation and rupture of vesicles confined in narrow channels, Revue canadienne de physique, 2017, 95(10): 916-922, https://doi.org/10.1139/cjp-2016-0796
69. Joseph M. Barakat and Eric S. G. Shaqfeh, The steady motion of a closely fitting vesicle in a tube, Journal of Fluid Mechanics, Volume 835, 25 January 2018 , pp. 721-761, https://doi.org/10.1017/jfm.2017.743
70. Joseph M. Barakat and Eric S. G. Shaqfeh, Stokes flow of vesicles in a circular tube, Journal of Fluid Mechanics, Volume 851, 25 September 2018 , pp. 606-635; https://doi.org/10.1017/jfm.2018.533
71. Margaret Y. Hwang, Seo Gyun Kim, Heon Sang Lee and Susan J. Muller, Elastic particle deformation in rectangular channel flow as a measure of particle stiffness, Soft Matter, 2018,14, 216-227; DOI:10.1039/C7SM01829K
72. Fikret Aydin, Xiaolei Chu, Joseph Greenstein and Meenakshi Dutt, A review on phospholipid vesicles flowing through channels, MRS Communications, Volume 8, Issue 3, September 2018 , pp. 718-726; https://doi.org/10.1557/mrc.2018.118
73. Shamim M. Ahmmed, Naureen S. Suteria, Valeria Garbin, and Siva A. Vanapalli, Hydrodynamic mobility of confined polymeric particles, vesicles, and cancer cells in a square microchannel, Biomicrofluidics 12, 014114 (2018); https://doi.org/10.1063/1.5018620

74. Joseph M. Barakat, Shamim M. Ahmmed, Siva A. Vanapalli and Eric S. G. Shaqfeh, Pressure-driven flow of a vesicle through a square microchannel, Journal of Fluid Mechanics, Volume 861, 25 February 2019 , pp. 447-483; https://doi.org/10.1017/jfm.2018.887
75. M. Faivre, “Drops, vesicles and red blood cells: Deformability and behavior under flow”, Ph.D. Thesis, University of Grenoble “Joseph Fourier” (2006)
76. Vanessa Lleras. Mod´elisation, analyse et simulation de probl`emes de contact en m´ecanique des solides et des fluides.. Mathematics. Universit´e de Franche-Comt´e, 2009. French. <tel-00442074> ; https://hal.archives-ouvertes.fr/file/index/docid/442074/filename/theselleras.pdf
77. Najim Tahiri, PhD thesis, Simulation de Globules Rouges modeles, et analyse analytique de modeles de suspensions tres concentrees, PhD Thesis, Grenoble University, Spécialité : Physique pour les sciences du vivant, 11 October 2013; http://hal.univ-grenoble-alpes.fr/file/index/docid/1023517/filename/NTahiri.pdf
78. D. Abreu, “Vesicles in flow : role of thermal fluctuations”, Ph.D. Thesis (2014), Institut für Theoretische Physik II; Fakultät Mathematik und Physik; Universität Stuttgart; http://elib.uni-stuttgart.de/opus/volltexte/2014/9312/
79. Perrine Colliat-Dangus, Complexation interfaciale de polymères : propriétés et stabilité d'émulsions millimétriques, Thèse, Chimie-Physique [physics.chem-ph]. Université Pierre et Marie Curie - Paris VI, 2015. Français. <NNT : 2015PA066134>; https://tel.archives-ouvertes.fr/tel-01194495/

V. Vitkova, M. Mader, T. Biben, and T. Podgorski, “Tumbling of Deformable Lipid Vesicles, Enclosing a Viscous Fluid under a Shear Flow”, *J. Optoel. Adv. Materials*, 7 (1), pp. 261-264 (2005)

брой цитирания: 8

80. Kantsler, V and Steinberg, V, “Transition to Tumbling and Two Regimes of Tumbling Motion of a Vesicle in Shear Flow”, Phys. Rev. Lett. 96, 036001 (2006)
81. Finken, R., Seifert, U., “Wrinkling of microcapsules in shear flow“, J. Phys.: Condens. Matter 18 (2006) L185–L191
82. Hatakenaka, R., Takagi, S., Matsumoto, Y., “The behavior of a lipid bilayer vesicle in a simple shear flow (2nd report, an experimental analysis of an inner flow of a tank-treading vesicle)”, Nihon Kikai Gakkai Ronbunshu, B Hen/Transactions of the Japan Society of Mechanical Engineers, Part B, 74 (4), 856-861 (2008)
83. Murayama, T., Yoshino, M., Hirata, T., Two-phase lattice boltzmann simulation of behavior of a body with a viscoelastic membrane in fluid flows (Effect of internal fluid viscosity on body behavior), Nihon Kikai Gakkai Ronbunshu, B Hen/Transactions of the Japan Society of Mechanical Engineers, Part B 77 (773) , pp. 4-19
84. Murayama Toshiro; Yoshino Masato; Hirata Tetsuo, Three-Dimensional Lattice Boltzmann Simulation of Two-Phase Flow Containing a Deformable Body with a Viscoelastic Membrane, COMMUNICATIONS IN COMPUTATIONAL PHYSICS, Volume: 9, Issue: 5, Pages: 1397-1413 (2011)
85. Franke, T., Hoppe, R.H.W. , Linsenmann, C., Schmid, L., Willbold, C., Wixforth, A., Numerical simulation of the motion of red blood cells and vesicles in microfluidic flows, Computing and Visualization in Science, Volume 14, Issue 4, April 2011, Pages 167-180

86. Hoppe, R.H.W., Linsenmann, C., An adaptive Newton continuation strategy for the fully implicit finite element immersed boundary method, Journal of Computational Physics 231 (14) , pp. 4676-4693 (2012)
87. M. Faivre, "Drops, vesicles and red blood cells: Deformability and behavior under flow", Ph.D. Thesis, University of Grenoble "Joseph Fourier" (2006)

Genova J., Vitkova V., Aladjem L., Meleard P., Mitov M. "Stroboscopic illumination gives new opportunities and improves the precision of bending elastic modulus measurements" (2005) *J. Optoel. Adv. Materials*, 7 (1), pp. 257-260.

брой цитирания: 6

88. Mey, I., Stephan, M., Schmitt, E.K., Müller, M.M., Amar, M.B., Steinem, C., Janshoff, A., "Local membrane mechanics of pore-spanning bilayers", Journal of the American Chemical Society 131 (20), pp. 7031-7039 (2009)
89. Bouvrais, H., Bending Rigidities of Lipid Bilayers. Their Determination and Main Inputs in Biophysical Studies, in Advances in Planar Lipid Bilayers and Liposomes 15, ed. Iglic, A., pp. 1-75 (2012)
90. Heide, R; Beishuizen, A; De Groot, H; Den Hollander, JC; Van Doormaal, JJ; De Monchy, JGR; Pasmans, SGMA; Van Gysel, D; Oranje, AP, Mastocytosis in children: A protocol for management, PEDIATRIC DERMATOLOGY, Volume: 25 Issue: 4 Pages: 493-500; DOI: 10.1111/j.1525-1470.2008.00738.x; Published: JUL-AUG 2008
91. Kuhlmann, J.W., Mey, I.P., Steinem, C., Modulating the lateral tension of solvent-free pore-spanning membranes, Langmuir, Volume 30, Issue 27, 15 July 2014, Pages 8186-8192
92. Dominik Drabik, Magda Przybyło, Grzegorz Chodaczek, Aleš Iglič, Marek Langner, The modified fluorescence based vesicle fluctuation spectroscopy technique for determination of lipid bilayer bending properties, Biochimica et Biophysica Acta (BBA) – Biomembranes, Available online 23 November 2015; doi:10.1016/j.bbamem.2015.11.020
93. Ingo Patrick Mey, Elastizität porenüberspannender Membranen: Eine kraftmikroskopische Studie, Johannes Gutenberg-Universität in Mainz, https://publications.ub.uni-mainz.de/theses/volltexte/2009/2149/pdf/2149.pdf

V. Vitkova, J. Genova, M.D. Mitov, and I. Bivas, "Sugars in the aqueous phase change the mechanical properties of lipid mono- and bilayers", *Mol. Cryst. Liq. Cryst.* 449, pp. 95–106 (2006)

брой цитирания: 23

94. P. Shchelokovskyy, S. Tristram-Nagle and R. Dimova, "Effect of the HIV-1 fusion peptide on the mechanical properties and leaflet coupling of lipid bilayers", New J. Phys. 13 (2011) 025004 (16pp)
95. O. Mertins and R. Dimova, "Binding of Chitosan to Phospholipid Vesicles Studied with Isothermal Titration Calorimetry", Langmuir 27, 5506–5515 (2011)
96. Peterlin, P; Arrigler, V; Haleva, E; Diamant, H, "Law of corresponding states for osmotic swelling of vesicles", SOFT MATTER Volume: 8 Issue: 7 Pages: 2185-2193 DOI: 10.1039/c1sm06670f, (2012)

97. Nagle, J.F., Introductory lecture: Basic quantities in model biomembranes, Faraday Discussions 161 , pp. 11-29 (2013)
98. Méléard, P., Pott, T., Overview of a Quest for Bending Elasticity Measurement, Advances in Planar Lipid Bilayers and Liposomes 17, pp. 55-75 (2013)
99. Solmaz, M.E., Sankhagowit, S., Biswas, R., Mejia, C.A., Povinelli, M.L., Malmstadt, N., Optical stretching as a tool to investigate the mechanical properties of lipid bilayers, RSC Advances 3 (37) , pp. 16632-16638 (2013)
100. Dimova, R., Recent developments in the field of bending rigidity measurements on membranes, Advances in Colloid and Interface Science, Volume 208, June 2014, Pages 225-234 (2014)
101. John F. Nagle, Michael S. Jablin, Stephanie Tristram-Nagle, Kiyotaka Akabori, What are the true values of the bending modulus of simple lipid bilayers?, Chemistry and Physics of Lipids, Volume 185, January 2015, Pages 3–10; doi:10.1016/j.chemphyslip.2014.04.003
102. John F. Nagle, Michael S. Jablin, Stephanie Tristram-Nagle, Sugar does not affect the bending and tilt moduli of simple lipid bilayers, Chemistry and Physics of Lipids 196 (2016)
103. D. Bochicchio and L. Monticelli, The membrane bending modulus in experiments and simulations: a puzzling picture, DOI: 10.1016/bs.abl.2016.01.003; April 2016
104. Joanna B. Dahl, Vivek Narsimhan, Bernardo Gouveia, Sanjay Kumar, Eric S. G. Shaqfeh, and Susan J. Muller, Experimental observation of the asymmetric instability of intermediate-reduced-volume vesicles in extensional flow (Article), Soft Matter, Volume 12, Issue 16, 28 April 2016, Pages 3787-3796; DOI 10.1039/C5SM03004H
105. Jang, Y., Jang, W.-S., Gao, C., Shim, T.S., Crocker, J.C.a, Hammer, D.A., Lee, D., Tuning the Mechanical Properties of Recombinant Protein-Stabilized Gas Bubbles Using Triblock Copolymers (Article, ACS Macro Letters, Volume 5, Issue 3, 15 March 2016, Pages 371-376
106. John F. Nagle, Experimentally Determined Tilt and Bending Moduli of Single-Component Lipid Bilayers, Chemistry and Physics of Lipids, online 12 April 2017, http://doi.org/10.1016/j.chemphyslip.2017.04.006
107. M. Doktorova, D. Harries and G. Khelashvili, Determination of bending rigidity and tilt modulus of lipid membranes from real-space fluctuation analysis of molecular dynamics simulations, Phys. Chem. Chem. Phys, DOI: 10.1039/c7cp01921a (2017)
108. Sergey A. Akimov, Pavel E. Volynsky, Timur R. Galimzyanov, Peter I. Kuzmin, Konstantin V. Pavlov, Oleg V. Batishchev, Pore formation in lipid membrane I: Continuous reversible trajectory from intact bilayer through hydrophobic defect to transversal pore, Scientific Reports 7, Article number: 12152 (2017), doi:10.1038/s41598-017-12127-7
109. Prévost, C., Tsai, F. C., Bassereau, P., Simunovic, M. Pulling Membrane Nanotubes from Giant Unilamellar Vesicles. J. Vis. Exp. (130), e56086, doi:10.3791/56086 (2017).
110. Samy R. Al-Ayoubi, Peter K. F. Schinkel, Melanie Berghaus, Marius Herzog and Roland Winter, Combined effects of osmotic and hydrostatic pressure on multilamellar lipid membranes in the presence of PEG and trehalose, Soft Matter, 2018,14, 8792-8802, DOI:10.1039/C8SM01343H
111. Mattia I.Morandi, MathieuSommer, MonikaKluzek, FabriceThalmann, André P.Schroder, Carlos M.Marques, DPPC Bilayers in Solutions of High Sucrose Content,

Biophysical Journal, Volume 114, Issue 9, 8 May 2018, Pages 2165-2173; https://www.sciencedirect.com/science/article/abs/pii/S0006349518304405

112. Hammad A. Faizi, Shelli L. Frey, Jan Steinkühler, Rumiana Dimova and Petia M. Vlahovska, Bending rigidity of charged lipid bilayer membranes, DOI: 10.1039/C9SM00772E (Paper) Soft Matter, 2019, 15, 6006-6013
113. Yonggang Liu, Reinhard Lipowsky, and Rumiana Dimova, Giant Vesicles Encapsulating Aqueous Two-Phase Systems: From Phase Diagrams to Membrane Shape Transformations, Front Chem. 2019; 7: 213. Published online 2019 Apr 9. doi: 10.3389/fchem.2019.00213
114. Mattia Morandi. Disruption of model membranes' phase behavior upon interaction with hydrophilic/hydrophobic molecules. Physics [physics]. Université de Strasbourg, 2017. https://tel.archives-ouvertes.fr/tel-01820824/
115. Milka N. Doktorova, BIOPHYSICS OF ASYMMETRIC MEMBRANES: PROTOCOLS AND REVELATIONS, A Dissertation Presented to the Faculty of the Weill Cornell Graduate School Of Medical Sciences In Partial Fulfillment of the Requirements for the Degree of Doctor of Philosophy
116. Samy Rashad Al-Ayoubi, Untersuchungen zur Variation von Struktur, Dynamik und Funktionalitat von Protein- und Lipidsystemen durch physiologisch relevante Osmolyte und Druckapplikation, Dissertation zur Erlangung des Doktorgrades der Naturwissenschaften (Doctor rerum naturalium), Lehrstuhl fur Physikalische Chemie I der Fakult ¨ ¨at fur Chemie und Chemische ¨ Biologie der Technischen Universit¨at Dortmund; https://d-nb.info/1178115933/34

M.Mader, V. Vitkova, M. Abkarian, A. Viallat and T. Podgorski, "Dynamics of viscous vesicles in shear flow", *Eur. Phys. J. E* 19, 389-397 (2006)

брой цитирания: 86

117. Misbah, C, "Vacillating Breathing and Tumbling of Vesicles under Shear Flow", Phys. Rev. Lett. 96, 028104 (2006)
118. Vlahovska, P.M., Garcia, R.S., "Dynamics of a viscous vesicle in linear flows", Phys. Rev. E 75, 016313 (2007)
119. Danker, G., Misbah, C., "Rheology of a Dilute Suspension of Vesicles", Phys. Rev. Lett. 98, 088104 (2007)
120. Kantsler, V, Segre, E, Steinberg, V, "Vesicle dynamics in time-dependent elongation flow: Wrinkling instability", Phys. Rev. Lett., 99 (17), 178102 (2007)
121. P. Peyla, "Rheology and dynamics of a deformable object in a microfluidic configuration: A numerical study", Europhys. Lett. 80, 34001 (2007)
122. R. Finken, A. Lamura, U. Seifert and G. Gompper, "Two-dimensional fluctuating vesicles in linear shear flow", Eur. Phys. J. E 25, 309-321 (2008)
123. B. Kaoui,,G. H. Ristow, I. Cantat, C. Misbah, and W. Zimmermann, "Lateral migration of a two-dimensional vesicle in unbounded Poiseuille flow", Phys. Rev. E 77, 021903 (2008)
124. C. Verdier, C. Couzon, A. Duperray, P. Singh, "Modeling cell interactions under flow", J. Math. Biol., DOI 10.1007/s00285-008-0164-4
125. V. Kantsler, E., E. Segre, V. Steinberg, "Dynamics of interacting vesicles and rheology of vesicle suspension in shear flow", Europhys. Lett. 82 (5), 58005 (2008)

126. Marmottant P., T. Biben, S. Hilgenfeldt, “Deformation and rupture of lipid vesicles in the strong shear flow generated by ultrasound-driven microbubbles”, Proc. Royal Soc. A – Math. Phys. Eng. Sci. 464 (2095), 1781-1800 (2008)
127. Danker G., C. Verdier, C. Misbah, “Rheology and dynamics of vesicle suspension in comparison with droplet emulsion”, Journal of Non-Newtonian Fluid Mechanics 152 (1-3), 156-167 (2008)
128. Lebedev, V., K. Turitsyn, S. Vergeles, “Nearly spherical vesicles in an external flow”, New Journal of Physics 10, 043044 (2008)
129. Lebedev, V., K. Turitsyn, S. Vergeles, “Dynamics of nearly spherical vesicles in an external flow”, Phys. Rev. Lett. 99 (21), 218101 (2007)
130. Finken, R, A. Lamura, U. Seifert, G. Gompper, “Two-dimensional fluctuating vesicles in linear shear flow”, Eur. Phys. J. E 25 (3), 309-321 (2008)
131. Tribet C., F. Vial, “Flexible macromolecules attached to lipid bilayers: impact on fluidity, curvature, permeability and stability of the membranes”, Soft Matter 4 (1), 68-81 (2008)
132. Young, YN, Blawzdziewicz, J, Cristini, V, Goodman, RH, “Hysteretic and chaotic dynamics of viscous drops in creeping flows with rotation”, Journal of Fluid Mechanics 607, 209 – 234 (2008)
133. Jamet D., C. Misbah, “Towards a thermodynamically consistent picture of the phase-field model of vesicles: Local membrane incompressibility”, Phys. Rev. E 76 (5), 051907 (2007)
134. Danker G, Vlahovska PM, Misbah C, Vesicles in Poiseuille Flow, PHYSICAL REVIEW LETTERS Volume: 102 Issue: 14 Article Number: 148102 Published: APR 10 2009
135. Hamada T, Hirabayashi Y, Ohta T, Takagi M, Rhythmic pore dynamics in a shrinking lipid vesicle, PHYSICAL REVIEW E Volume: 80 Issue: 5 Article Number: 051921 Part: Part 1, Published: NOV 2009
136. Messlinger S, Schmidt B, Noguchi H, Gompper G, Dynamical regimes and hydrodynamic lift of viscous vesicles under shear, PHYSICAL REVIEW E Volume: 80 Issue: 1 Article Number: 011901 Part: Part 1 Published: JUL 2009
137. Deschamps, J., V. Kantsler, and V. Steinberg, “Phase Diagram of Single Vesicle Dynamical States in Shear Flow”, Phys. Rev. Lett. 102, 118105 (2009)
138. Deschamps J, Kantsler V, Segre E, Steinberg V, Dynamics of a vesicle in general flow, PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, Volume: 106, Issue: 28, Pages: 11444-11447, Published: JUL 14 2009
139. Ghigliotti G., H. Selmi, B. Kaoui, G. Biros and C. Misbah, Dynamics and rheology of highly deflated vesicles, ESAIM: Proceedings, August 2009, Vol. 28, p. 211-226 (M. Ismail, B. Maury & J.-F. Gerbeau, Editors)
140. Bui, C., V. Lleras, O. Pantz, “Dynamics of red blood cells in 2D”, ESAIM: Proceedings, August 2009, Vol. 28, p. 182-194 (M. Ismail, B. Maury & J.-F. Gerbeau, Editors)
141. Noguchi, H., “Swinging and synchronized rotations of red blood cells in simple shear flow”, Physical Review E - Statistical, Nonlinear, and Soft Matter Physics 80 (2), art. no. 021902 (2009)
142. Noguchi H, Membrane Simulation Models from Nanometer to Micrometer Scale, JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN Volume: 78 Issue: 4 Article Number: 041007 Published: APR 2009

143. Gascoyne, P.R.C., "Dielectrophoretic-field flow fractionation analysis of dielectric, density, and deformability characteristics of cells and particles", Analytical Chemistry 81 (21), pp. 8878-8885 (2009)
144. Ghigliotti, G., Biben, T., Misbah, C. Rheology of a dilute two-dimensional suspension of vesicles (2010) Journal of Fluid Mechanics, 653, pp. 489-518.
145. Ye, T., Li, H., Lam, K.Y., "Modeling and simulation of microfluid effects on deformation behavior of a red blood cell in a capillary", Microvascular Research 80 (3) , pp. 453-463 (2010)
146. Schwalbe, J.T., Vlahovska, P.M., Miksis, M.J. Monolayer slip effects on the dynamics of a lipid bilayer vesicle in a viscous flow (2010) Journal of Fluid Mechanics, 647, pp. 403-419.
147. Misbah, C., ON SOME PASSIVE AND ACTIVE MOTION IN BIOLOGY, CHEMOMECHANICAL INSTABILITIES IN RESPONSIVE MATERIALS, Editor(s): Borckmans P; DeKepper P; Khokhlov AR; Metens S, Book Series: NATO Science for Peace and Security Series A-Chemistry and Biology Pages: 251-273, Published: 2009
148. Kaoui B, Farutin A, Misbah C, Vesicles under simple shear flow: Elucidating the role of relevant control parameters, PHYSICAL REVIEW E, Volume: 80 Issue: 6 Article Number: 061905 Part: Part 1 Published: DEC 2009
149. Bagchi, P., Kalluri, R.M. Rheology of a dilute suspension of liquid-filled elastic capsules (2010) Physical Review E - Statistical, Nonlinear, and Soft Matter Physics, 81 (5), art. no. 056320
150. Noguchi H, Dynamics of Fluid Vesicles in Oscillatory Shear Flow, JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN, Volume: 79, Issue: 2, Article Number: 024801, Published: FEB 2010
151. Farutin A, Biben T, Misbah C, Analytical progress in the theory of vesicles under linear flow, PHYSICAL REVIEW E, Volume: 81, Issue: 6, Article Number: 061904, Part: Part 1, Published: JUN 3 2010
152. Noguchi H, Dynamic modes of microcapsules in steady shear flow: Effects of bending and shear elasticities, PHYSICAL REVIEW E Volume: 81 Issue: 5 Article Number: 056319 Part: Part 2 Published: MAY 2010
153. Noguchi H, Dynamic modes of red blood cells in oscillatory shear flow, PHYSICAL REVIEW E Volume: 81 Issue: 6 Article Number: 061920 Part: Part 1 Published: JUN 22 2010
154. Hatakenaka, Ryuta; Takagi, Shu; Matsumoto, Yoichiro, Orientation and internal flow of a vesicle in tank-treading motion in shear flow, PHYSICAL REVIEW E 84, 2, 026324 (2011)
155. Yazdani, Alireza Z. K.; Bagchi, Prosenjit, Phase diagram and breathing dynamics of a single red blood cell and a biconcave capsule in dilute shear flow, PHYSICAL REVIEW E 84, 2, 026314 (2011)
156. Schwalbe, Jonathan T.; Vlahovska, Petia M.; Miksis, Michael J., Vesicle electrohydrodynamics, PHYSICAL REVIEW E 83, 4, 046309 (2011)
157. Veerapaneni, Shravan K.; Young, Y. -N.; Vlahovska, Petia M.; Blawzdziewicz, Jerzy, Dynamics of a Compound Vesicle in Shear Flow, PHYSICAL REVIEW LETTERS 106, 15, 158103 (2011)

158. Yazdani, Alireza Z. K.; Kalluri, R. Murthy; Bagchi, Prosenjit, Tank-treading and tumbling frequencies of capsules and red blood cells, PHYSICAL REVIEW E 83, 4, 046305 (2011)
159. Bagchi, Prosenjit; Kalluri, R. Murthy, Dynamic rheology of a dilute suspension of elastic capsules: effect of capsule tank-treading, swinging and tumbling, JOURNAL OF FLUID MECHANICS 669, 498-526 (2011)
160. Shim, Sangjo; Gascoyne, Peter; Noshari, Jamileh; Hale, Katherine Stemke, Dynamic physical properties of dissociated tumor cells revealed by dielectrophoretic field-flow fractionation, INTEGRATIVE BIOLOGY 3, 8, 850-862 (2011)
161. Laadhari, A., Saramito, P., Misbah, C., "Vesicle tumbling inhibited by inertia", Physics of Fluids 24 (3) , art. no. 031901 (2012)
162. Marguet, M., Sandre, O., Lecommandoux, S., "Polymersomes in "gelly" polymersomes: Toward structural cell mimicry", Langmuir 28 (4) , pp. 2035-2043 (2012)
163. Vincent Doyeux, Vincent Chabannes, Christophe Prud'homme and Mourad Ismail, Simulation of vesicle using level set method solved by high order finite element, ESAIM: PROCEEDINGS, vol. , 1-10 (2012)
164. Marguet, M., Bonduelle, C., Lecommandoux, S., Multicompartmentalized polymeric systems: Towards biomimetic cellular structure and function, Chemical Society Reviews, Volume 42, Issue 2, 21, Pages 512-529, January (2013)
165. Shim, S., Stemke-Hale, K., Noshari, J., Becker, F.F., Gascoyne, P.R.C., Dielectrophoresis has broad applicability to marker-free isolation of tumor cells from blood by microfluidic systems, Biomicrofluidics 7 (1), art. no. 011808 (2013)
166. Tasso, I.V., Buscaglia, G.C., A finite element method for viscous membranes, Computer Methods in Applied Mechanics and Engineering, volume 255, pp. 226 – 237 (2013)
167. McConnell, L.C., Miksis, M.J., Vlahovska, P.M., Vesicle electrohydrodynamics in DC electric fields, IMA Journal of Applied Mathematics (Institute of Mathematics and Its Applications) 78 (4) , pp. 797-817 (2013)
168. Hua Li, Ting Ye, K Y Lam, Computational Analysis of Dynamic Interaction of Two Red Blood Cells in a Capillary, Cell Biochemistry and Biophysics, 03/2014; Volume 69, Issue 3, July 2014, Pages 673-680; DOI:10.1007/s12013-014-9852-4
169. Abreu, D., Levant, M., Steinberg, V., Seifert, U., Fluid vesicles in flow, Advances in Colloid and Interface Science, Volume 208, June 2014, Pages 129-141
170. Spann, A.P., Zhao, H., Shaqfeh, E.S.G., Loop subdivision surface boundary integral method simulations of vesicles at low reduced volume ratio in shear and extensional flow, Physics of Fluids, Volume 26, Issue 3, 31 March 2014, Article number 031902
171. Aland, S., Egerer, S., Lowengrub, J., Voigt, A., Diffuse interface models of locally inextensible vesicles in a viscous fluid, Journal of Computational Physics, Volume 277, 15 November 2014, Pages 32-47
172. Guillermo R. Lázaro, Aurora Hernández-Machado and Ignacio Pagonabarraga, Rheology of red blood cells under flow in highly confined microchannels: I. effect of elasticity, Soft Matter, 2014, 10, 7195-7206
173. Andreas M. Menzel, Tuned, driven, and active soft matter, Physics Reports (2014) doi:10.1016/j.physrep.2014.10.001
174. Narsimhan, V; Spann, AP; Shaqfeh, ESG, The mechanism of shape instability for a vesicle in extensional flow, JOURNAL OF FLUID MECHANICS, Volume: 750 Pages: 144-190, DOI: 10.1017/jfm.2014.248, Published: JUL 2014

175. Kathrin Müller, Dmitry A. Fedosov, Gerhard Gompper, Smoothed dissipative particle dynamics with angular momentum conservation, Journal of Computational Physics, Volume 281, 15 January 2015, Pages 301–315
176. Alexander Farutin and Chaouqi Misbah, Symmetry breaking and cross-streamline migration of three-dimensional vesicles in an axial Poiseuille flow, Phys. Rev. E 89, 042709, Published 18 April 2014
177. M. Guedda, M. Benlahsen, and C. Misbah, Rheological properties of a vesicle suspension, Phys. Rev. E 90, 052302, Published 14 November 2014
178. A. M. Menzel, Tuned, driven, and active soft matter, Physics Reports, Volume 554, 3 February 2015, Pages 1-45
179. Müller, K. , Fedosov, D.A. ,Gompper, G., Smoothed dissipative particle dynamics with angular momentum conservation, Journal of Computational Physics, Volume 281, January 05, 2015, Pages 301-315
180. Zhenyu Deng, Dong Zhang, Linxi Zhang, Dynamics of polymer-grafted vesicles in shear flow, Materials Today Communications, Volume 3, June 2015, Pages 130–136; doi:10.1016/j.mtcomm.2015.01.004
181. X.W. Zhang , F.C. Ma, P.F. Hao, Zhaohui Yao, Mechanical behavior of pathological and normal red blood cells in microvascular flow based on modified level-set method; SCIENCE CHINA: PHYSICS, MECHANICS AND ASTRONOMY 59(1):1-9 · FEBRUARY 2016; Impact Factor: 1.14 · DOI: 10.1007/s11433-015-5716-1
182. Dominique Barthès-Biesel, Motion and Deformation of Elastic Capsules and Vesicles in Flow, Annual Review of Fluid Mechanics, Vol. 48: 25-52 (Volume publication date January 2016), DOI: 10.1146/annurev-fluid-122414-034345
183. Joanna B. Dahl, Vivek Narsimhan, Bernardo Gouveia, Sanjay Kumar, Eric S. G. Shaqfeh and Susan J. Muller, Experimental observation of the asymmetric instability of intermediate-reduced-volume vesicles in extensional flow, Soft Matter, 2016,12, 3787-3796, DOI: 10.1039/C5SM03004H
184. Kaoui, B., Harting, J., Two-dimensional lattice Boltzmann simulations of vesicles with viscosity contrast (Article), Rheologica Acta, Volume 55, Issue 6, 1 June 2016, Pages 465-475
185. Dahl, J.B., Narsimhan, V., Gouveia, B., Kumar, S., Shaqfeh, E.S.G., Muller, S.J., Experimental observation of the asymmetric instability of intermediate-reduced-volume vesicles in extensional flow (Article), Soft Matter, Volume 12, Issue 16, 28 April 2016, Pages 3787-3796
186. Vlahovska, P.M., CHAPTER 9: Dynamics of membrane-bound particles: Capsules and vesicles (Book Chapter), RSC Soft Matter, Volume 2016-January, Issue 4, 2016, Pages 313-346
187. Misbah C., BOOK: Complex Dynamics and Morphogenesis: An Introduction to Nonlinear Science, Springer Science+Business Media B. V. 2017; Print ISBN978-94-024-1018-1; Online ISBN978-94-024-1020-4; https://doi.org/10.1007/978-94-024-1020-4
188. Yongsam Kim, Ming-Chih Lai, and Yunchang Seo, Numerical simulations of vesicle and bubble dynamics in two-dimensional four-roll mill flows, Phys. Rev. E 95, 053105 – Published 10 May 2017; https://doi.org/10.1103/PhysRevE.95.053105
189. Zaiyi Shen, Alexander Farutin, Marine Thiébaud, and Chaouqi Misbah, Phys. Rev. Fluids 2, 103101 – Published 6 October 2017; https://doi.org/10.1103/PhysRevFluids.2.103101

190. Kumari Priti Sinha and Rochish M. Thaokar, Effect of ac electric field on the dynamics of a vesicle under shear flow in the small deformation regime, Phys. Rev. E 97, 032404 – Published 12 March 2018; https://journals.aps.org/pre/abstract/10.1103/PhysRevE.97.032404
191. Margaret Y. Hwang, Seo Gyun Kim, Heon Sang Lee and Susan J. Muller, Elastic particle deformation in rectangular channel flow as a measure of particle stiffness, Soft Matter, 2018,14, 216-227, 10.1039/C7SM01829K; https://pubs.rsc.org/en/content/articlelanding/2018/sm/c7sm01829k/unauth#!divAbstract
192. Felix Reichel, Johannes Mauer, Ahmad Ahsan Nawaz, Gerhard Gompper, Jochen Guck, Dmitry A. Fedosov, High-throughput microfluidic characterization of erythrocyte shape and mechanical variability, bioRxiv, published Dec 5, 2018; https://doi.org/10.1101/488189;
193. Glen Dorrington, Nikola P. Chmel, Stephen R. Norton, Alan M. Wemyss, Katherine Lloyd, D. Praveen Amarasinghe, Light scattering corrections to linear dichroism spectroscopy for liposomes in shear flow using calcein fluorescence and modified Rayleigh-Gans-Debye-Mie scattering, Biophys Rev (2018) 10: 1385. https://doi.org/10.1007/s12551-018-0458-8; https://link.springer.com/article/10.1007/s12551-018-0458-8
194. A. Aarab, M. Guedda, N. Alaa, and C. Misbah, Mapping vesicle dynamics onto that of a rigid sphere in five dimensions, Phys. Rev. E 98, 042407 – Published 11 October 2018; https://journals.aps.org/pre/abstract/10.1103/PhysRevE.98.042407
195. Kumari Priti Sinha and Rochish M. Thaokar, A theoretical study on the dynamics of a compound vesicle in linear shear flow, ***Soft Matter***, 2019,**15**, 6994-7017; DOI:10.1039/C9SM01102A https://pubs.rsc.org/en/content/articlelanding/2019/sm/c9sm01102a/unauth#!divAbstract
196. Ankush Pal and D. V. Khakhar, Breakage of vesicles in a simple shear flow, ***Soft Matter***, 2019,**15**, 1979-1987DOI:10.1039/C8SM01501E https://pubs.rsc.org/en/content/articlelanding/2019/sm/c8sm01501e/unauth#!divAbstract
197. Felix Reichel, Johannes Mauer, Ahmad Ahsan Nawaz, Gerhard Gompper, Jochen R. Guck, Dmitry Fedosov, High Troughput Microfluidic Characterization of Erythrocyte Shapes and Mechanical Variability, Biophysical Journal, Volume 116, Issue 3, Supplement 1, 123A-124A, February 15, 2019, https://doi.org/10.1016/j.bpj.2018.11.688
198. Vanessa Lleras. Mod´elisation, analyse et simulation de probl`emes de contact en m´ecanique des solides et des fluides.. Mathematics. Universit´e de Franche-Comt´e, 2009. French. <tel-00442074> ; https://hal.archives-ouvertes.fr/file/index/docid/442074/filename/theselleras.pdf
199. Najim Tahiri, PhD thesis, Simulation de Globules Rouges modeles, et analyse analytique de modeles de suspensions tres concentrees, PhD Thesis, Grenoble University, Spécialité : Physique pour les sciences du vivant, 11 October 2013; http://hal.univ-grenoble-alpes.fr/file/index/docid/1023517/filename/NTahiri.pdf
200. Vincent Doyeux, Modelisation et simulation de systemes multi-fluides. Application aux ecoulements sanguins, PhD Thesis, Computational Physics. Université de Grenoble, 2014 <tel-00939930v2>; https://hal.archives-ouvertes.fr/tel-00939930v2/document
201. Müller, Kathrin (2015) In silico particle margination in blood flow. PhD thesis, Universität zu Köln.; urn:nbn:de:hbz:38-59105

202. Modeling the electrohydrodynamics of three-dimensional vesicles by Kolahdouz, Mohammad Ebrahim, Ph.D., STATE UNIVERSITY OF NEW YORK AT BUFFALO, 2015, 142 pages; 3683048; http://gradworks.umi.com/36/83/3683048.html

V. Vitkova, P. Méléard, T. Pott and I. Bivas, "Alamethicin influence on the membrane bending elasticity", *Eur. Biophys. J.*, 35, pp. 281-286 (2006)

брой цитирания: 23

203. Marsh, D., "Elastic curvature constants of lipid monolayers and bilayers", Chem. Phys. Lipids 144, 146–159 (2006)
204. Pan, J., D. P. Tieleman, J. F. Nagle, N. Kučerka, S. Tristram-Nagle, "Alamethicin in lipid bilayers: Combined use of X-ray scattering and MD simulations", Biochim. Biophys. Acta (2009), doi:10.1016/j.bbamem.2009.02.013
205. Reister-Gottfried E., Leitenberger S.M., Seifert U., Diffusing proteins on a fluctuating membrane: Analytical theory and simulations, Phys. Rev. E, 81, 031903 (2010).
206. Pabst G., N. Kucerka, M.-P. Nieh, M.C. Rheinstadter, J. Katsaras, Chem. Phys. Lipids, 63, 460 (2010).
207. Settles, EI, Loftus, AF, McKeown, AN, Parthasarathy, R, The Vesicle Trafficking Protein Sar1 Lowers Lipid Membrane Rigidity, BIOPHYSICAL JOURNAL Volume: 99, Issue: 5, Pages: 1539-1545, DOI: 10.1016/j.bpj.2010.06.059, Published: SEP 8 (2010)
208. Lee, J, Choi, SM, Doe, C, Faraone, A, Pincus, PA, Kline, SR, Thermal Fluctuation and Elasticity of Lipid Vesicles Interacting with Pore-Forming Peptides, PHYSICAL REVIEW LETTERS, Volume: 105, Issue: 3, Article Number: 038101, DOI: 10.1103/PhysRevLett.105.038101, Published: JUL 13 (2010)
209. Bouvrais, H., Bending Rigidities of Lipid Bilayers. Their Determination and Main Inputs in Biophysical Studies, in Advances in Planar Lipid Bilayers and Liposomes 15 , pp. 1-75 (2012)
210. Genova, J. Marin Mitov Lectures. Measuring the Bending Elasticity of Lipid Bilayers, Advances in Planar Lipid Bilayers and Liposomes 17 , pp. 1-27 (2013)
211. Pabst, G., Coupling membrane elasticity and structure to protein function, Advances in Planar Lipid Bilayers and Liposomes 18 , pp. 81-109 (2013)
212. Michael J Bruno, Radda Rusinova, Nicholas J Gleason, Roger E Koeppe, Olaf S Andersen, Interactions of drugs and amphiphiles with membranes: modulation of lipid bilayer elastic properties by changes in acyl chain unsaturation and protonation, Faraday Discussions, 01/2013; 161:461-480; discussion 563-89. DOI:10.1039/C2FD20092A
213. Rahaman, A., Lazaridis, T., Erratum: A thermodynamic approach to alamethicin pore formation (Biochimica et Biophysica Acta - Biomembranes (2014) 1838 (1440-1447)), Biochimica et Biophysica Acta – Biomembranes, Volume 1838, Issue 5, May 2014, Pages 1440-1447
214. Dimova, R., Recent developments in the field of bending rigidity measurements on membranes, Advances in Colloid and Interface Science, Volume 208, June 2014, Pages 225-234 (2014)
215. Karamdad, K., Law, R.V., Seddon, J.M., Brooks, N.J., Ces, O., Preparation and mechanical characterisation of giant unilamellar vesicles by a microfluidic method, Lab

on a Chip - Miniaturisation for Chemistry and Biology, Volume 15, Issue 2, 21 January 2015, Pages 557-562

216. Garten, M., Prévost, C., Cadart, C., Gautier, R., Bousset, L., Melki, R., Bassereau, P., Vanni, S., Methyl-branched lipids promote the membrane adsorption of α-synuclein by enhancing shallow lipid-packing defects, Physical Chemistry Chemical Physics, Volume 17, Issue 24, 28 June 2015, Pages 15589-15597
217. Himani Agrawal, Matthew Zelisko, Liping Liu, Pradeep Sharma, Rigid proteins and softening of biological membranes-with application to HIV-induced cell membrane softening (Article), Scientific Reports, Volume 6, 6 May 2016, Article number 25412; DOI: 10.1038/srep25412 https://www.nature.com/articles/srep25412
218. Nawal K. Khadka, Peng Teng, Jianfeng Cai, Jianjun Pan, Modulation of Lipid Membrane Structural and Mechanical Properties by a Peptidomimetic Derived from Reduced Amide Scaffold, Biochimica et Biophysica Acta (BBA) – Biomembranes Available online 26 January 2017; http://dx.doi.org/10.1016/j.bbamem.2017.01.026
219. Jianjun Pan, Prasana K. Sahoo, Annalisa Dalzini, Zahra Hayati, Chinta M. Aryal, Peng Teng, Jianfeng Cai, Humberto Rodriguez Gutierrez, and Likai Song, Membrane Disruption Mechanism of a Prion Peptide (106–126) Investigated by Atomic Force Microscopy, Raman and Electron Paramagnetic Resonance Spectroscopy, J. Phys. Chem. B, 2017, 121 (19), pp 5058–5071
220. GianvitoGrasso, StefanoMuscat, MartinaRebella, UmbertoMorbiducci, AlbertoAudenino, AndreaDanani, Marco A.Deriu, Cell penetrating peptide modulation of membrane biomechanics by Molecular dynamics, Journal of Biomechanics, Volume 73, 17 May 2018, Pages 137-144; https://doi.org/10.1016/j.jbiomech.2018.03.036
221. Tânia Silva, Bárbara Claro, Bruno F. B. Silva , Nuno Vale, Paula Gomes , Maria Salomé Gomes, Sérgio S. Funari, José Teixeira, Daniela Uhríková, and Margarida Bastos, Unravelling a Mechanism of Action for a Cecropin A-Melittin Hybrid Antimicrobial Peptide: The Induced Formation of Multilamellar Lipid Stacks, Langmuir, 2018, 34 (5), pp 2158–2170; DOI: 10.1021/acs.langmuir.7b03639; Publication Date (Web): January 5, 2018; https://pubs.acs.org/doi/abs/10.1021/acs.langmuir.7b03639
222. William T.Heller, Piotr A.Zolnierczuk, The helix-to-sheet transition of an HIV-1 fusion peptide derivative changes the mechanical properties of lipid bilayer membranes, Biochimica et Biophysica Acta (BBA) – Biomembranes, Volume 1861, Issue 3, 1 March 2019, Pages 565-572; https://doi.org/10.1016/j.bbamem.2018.12.004
223. Hanulová, M., “Interaction of antimicrobial peptides with lipid membranes”, Ph.D. Thesis, Universität Hamburg, Departament Physik (2008)
224. Loftus, Andrew, Measurement of Membrane Rigidity and Its Modulation by the Vesicle Trafficking Protein Sar1, Ph.D. Thesis, Department of Chemistry and Biochemistry, University of Oregon, 2014-09-29, http://hdl.handle.net/1794/18311
225. Tamaddoni Jahromi, Nima, "Inter-droplet Membranes for Mechanical Sensing Applications. " PhD diss., University of Tennessee, 2016. http://trace.tennessee.edu/utk_graddiss/3754

V. Vitkova, M.-A. Mader, B. Polack, C. Misbah and T. Podgorski, “Micro-macro link in rheology of erythrocyte and vesicle suspensions”, *Biophys. J.* 95 (7) L33-L35 (2008)

брой цитирания: 36

226. Verdier, C., Etienne, J., Duperray, A., Preziosi, L., "Review: Rheological properties of biological materials", Comptes Rendus Physique 10 (8), pp. 790-811 (2009)
227. Tsubota K, Wada S, "Effect of the natural state of an elastic cellular membrane on tank-treading and tumbling motions of a single red blood cell", PHYSICAL REVIEW E Volume: 81 Issue: 1 Article Number: 011910 Part: Part 1 Published: JAN 2010
228. Rahimian, A., Veerapaneni, S.K., Biros, G. Dynamic simulation of locally inextensible vesicles suspended in an arbitrary two-dimensional domain, a boundary integral method (2010) Journal of Computational Physics, 229 (18), pp. 6466-6484.
229. Noguchi, H. Dynamic modes of red blood cells in oscillatory shear flow (2010) Physical Review E - Statistical, Nonlinear, and Soft Matter Physics, 81 (6), art. no. 061920
230. Bagchi, P., Kalluri, R.M. Rheology of a dilute suspension of liquid-filled elastic capsules (2010) Physical Review E - Statistical, Nonlinear, and Soft Matter Physics, 81 (5), art. no. 056320
231. Schwalbe, Jonathan T.; Vlahovska, Petia M.; Miksis, Michael J., Vesicle electrohydrodynamics, PHYSICAL REVIEW E, 83, 4, 046309 (2011)
232. Veerapaneni, Shravan K.; Young, Y. -N.; Vlahovska, Petia M.; Blawzdziewicz, Jerzy, Dynamics of a Compound Vesicle in Shear Flow, PHYSICAL REVIEW LETTERS, 106, 15, 158103 (2011)
233. Bagchi, Prosenjit; Kalluri, R. Murthy, Dynamic rheology of a dilute suspension of elastic capsules: effect of capsule tank-treading, swinging and tumbling, JOURNAL OF FLUID MECHANICS, 669, 498, 526 (2011)
234. Franke, T., Hoppe, R.H.W. , Linsenmann, C., Schmid, L., Willbold, C., Wixforth, A., Numerical simulation of the motion of red blood cells and vesicles in microfluidic flows, Computing and Visualization in Science, Volume 14, Issue 4, April 2011, Pages 167-180
235. Levant, M., Deschamps, J., Afik, E., Steinberg, V., Characteristic spatial scale of vesicle pair interactions in a plane linear flow, Physical Review E - Statistical, Nonlinear, and Soft Matter Physics 85 (5) , art. no. 056306 (2012)
236. Braunmüller, S., Schmid, L., Sackmann, E., Franke, T., Hydrodynamic deformation reveals two coupled modes/time scales of red blood cell relaxation, Soft Matter 8 (44) , pp. 11240-11248 (2012)
237. Kaoui, B., Krüger, T., Harting, J., How does confinement affect the dynamics of viscous vesicles and red blood cells?, Soft Matter 8 (35) , pp. 9246-9252 (2012)
238. Lamura, A., Gompper, G., Dynamics and rheology of vesicle suspensions in wall-bounded shear flow, EPL 102 (2) , art. no. 28004 (2013)
239. Li, Xuejin; Vlahovska, Petia M.; Karniadakis, George Em, Continuum- and particle-based modeling of shapes and dynamics of red blood cells in health and disease, SOFT MATTER Volume: 9 Issue: 1 Pages: 28-37 Published: 2013
240. Zhao, H., Shaqfeh, E.S.G., The dynamics of a non-dilute vesicle suspension in a simple shear flow, Journal of Fluid Mechanics, Volume 725, May 2013, Pages 709-731
241. Luo, ZY; Wang, SQ; He, L; Xu, F; Bai, BF, Inertia-dependent dynamics of three-dimensional vesicles and red blood cells in shear flow, SOFT MATTER, Volume: 9 Issue: 40 Pages: 9651-9660, DOI: 10.1039/c3sm51823j, Published: 2013
242. Badr Kaoui, Ruben J. W. Jonk, and Jens Harting, Interplay between microdynamics and macrorheology in vesicle suspensions (2014) Soft Matter, Volume 10, Issue 26, 14 July 2014, Pages 4735-4742, DOI: 10.1039/C4SM00563E

243. Spann, A.P., Zhao, H., Shaqfeh, E.S.G., Loop subdivision surface boundary integral method simulations of vesicles at low reduced volume ratio in shear and extensional flow, Physics of Fluids, Volume 26, Issue 3, 31 March 2014, Article number 031902
244. Narsimhan, V; Spann, AP; Shaqfeh, ESG, The mechanism of shape instability for a vesicle in extensional flow, JOURNAL OF FLUID MECHANICS, Volume: 750 Pages: 144-190, DOI: 10.1017/jfm.2014.248, Published: JUL 2014
245. Apostolidis, A.J., Beris, A.N., Modeling of the blood rheology in steady-state shear flows, Journal of Rheology, Volume 58, Issue 3, May 2014, Pages 607-633
246. Abreu, D., Levant, M., Steinberg, V., Seifert, U., Fluid vesicles in flow, Advances in Colloid and Interface Science, Volume 208, June 2014, Pages 129-141
247. Guedda, M, Membrane compression in tumbling and vacillating-breathing regimes for quasispherical vesicles, PHYSICAL REVIEW E, Volume: 89 Issue: 1, Article Number: 012703, DOI: 10.1103/PhysRevE.89.012703, Published: JAN 6 2014
248. Fedosov, Dmitry A.; Peltomaeki, Matti; Gompper, Gerhard, Deformation and dynamics of red blood cells in flow through cylindrical microchannels, SOFT MATTER Volume: 10 Issue: 24 Pages: 4258-4267 Published: 2014
249. Roland G. Winkler , Dmitry A. Fedosov , Gerhard Gompper, Dynamical and rheological properties of soft colloid suspensions;, Current Opinion in Colloid & Interface Science, Volume 19, Issue 6, December 2014, Pages 594–610
250. Genova, J., Ulrih, N.P., Kralj-Iglič, V., Iglič, A., Bivas, I., Bending elasticity modulus of giant vesicles composed of Aeropyrum pernix K1 archaeal lipid, Life Volume 5, Issue 2, 26 March 2015, Pages 1101-1110
251. Katanov, D., Gompper, G., Fedosov, D.A. , Microvascular blood flow resistance: Role of red blood cell migration and dispersion, Microvascular Research, volume 99, issue , year 2015, pp. 57 – 66
252. Lamura, A., Gompper, G., Rheological properties of sheared vesicle and cell suspensions (Conference Paper), Procedia IUTAM, Volume 16, 2015, Pages 3-11
253. Alireza Yazdani, Xuejin Li, George Em Karniadaki, Dynamic and rheological properties of soft biological cell suspensions, Rheologica Acta, Volume 55, Issue 6, 1 June 2016, Pages 433-449
254. Alex Apostolidis, Antony N. Beris, The effect of cholesterol and triglycerides on the steady state shear rheology of blood, Rheologica Acta, Volume 55, Issue 6, 1 June 2016, Pages 497-509
255. Vlahovska, P.M., CHAPTER 9: Dynamics of membrane-bound particles: Capsules and vesicles (Book Chapter) RSC Soft Matter, Volume 2016-January, Issue 4, 2016, Pages 313-346
256. Ewan Henry, Stefan H Holm, Zunmin Zhang, Jason P Beech, Jonas O Tegenfeldt, Dmitry Fedosov, Gerhard Gompper, Sorting cells by their dynamical properties, Scientific Reports: 34375, October 2016, DOI: 10.1038/srep34375
257. Achim Guckenberger, Alexander Kihm, Thomas John, Christian Wagner, Stephan Gekle, Numerical-experimental observation of shape bistability of red blood cells flowing in a microchannel, Soft Matter, 2018,14, 2032-2043; https://pubs.rsc.org/en/content/articlelanding/2018/sm/c7sm02272g/unauth#!divAbstract
258. Johannes Mauer, Simon Mendez, Luca Lanotte, Franck Nicoud, Manouk Abkarian, Gerhard Gompper, and Dmitry A. Fedosov, Flow-Induced Transitions of Red Blood Cell

Shapes under Shear, Phys. Rev. Lett. 121, 118103 – Published 11 September 2018; https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.121.118103

259. Joseph M. Barakat and Eric S. G. Shaqfeh, Stokes flow of vesicles in a circular tube, Journal of Fluid Mechanics, Volume 851, 25 September 2018 , pp. 606-635; https://www.cambridge.org/core/journals/journal-of-fluid-mechanics/article/stokes-flow-of-vesicles-in-a-circular-tube/918E7351DBBD4D477890F34344F0D4A1#
260. D. Abreu, “Vesicles in flow : role of thermal fluctuations”, Ph.D. Thesis (2014), Institut für Theoretische Physik II; Fakultät Mathematik und Physik; Universität Stuttgart; http://elib.uni-stuttgart.de/opus/volltexte/2014/9312/
261. Najim Tahiri, PhD thesis, Simulation de Globules Rouges modeles, et analyse analytique de modeles de suspensions tres concentrees, PhD Thesis, Grenoble University, Spécialité : Physique pour les sciences du vivant, 11 October 2013; http://hal.univ-grenoble-alpes.fr/file/index/docid/1023517/filename/NTahiri.pdf

Genova J., Zheliaskova A., Vitkova V., Mitov M.D. Stroboscopic illumination study of the dynamics of fluctuating vesicles. *Journal of Optoelectronics and Advanced Materials*, 11 (9) , pp. 1222-1225 (2009)

брой цитирания: 10

262. Przybyło, M., Procek, J., Kaczyński, M., Borowik, T., Hof, M., Langner, M., A Multi Time-Scale Approach of the Lipid Bilayer Dynamics, Advances in Planar Lipid Bilayers and Liposomes 15 , pp. 105-137 (2012)
263. Zupanc, J., Drobne, D., Drasler, B., Valant, J., Iglic, A., Kralj-Iglic, V., Makovec, D., Rappolt, M., Sartori, B., Kogej, K.Experimental evidence for the interaction of C-60 fullerene with lipid vesicle membranes. Carbon 50 (3) , pp. 1170-1178 (2012)
264. Šuštar, V., Zelko, J., Lopalco, P., Lobasso, S., Ota, A., Ulrih, N.P., Corcelli, A., Kralj-Iglič, V. Morphology, biophysical properties and protein-mediated fusion of archaeosomes, PLoS ONE 7 (7) , art. no. e39401 (2012)
265. Montgomery, P.C., Montaner, D., Anstotz, F., Serio, B., Wide field nanometric materials analysis by diffraction limited far field optical nanoscopy, Journal of Physics: Conference Series 398 (1) , art. no. 012001 (2012)
266. Montgomery, P.C., Serio, B., Anstotz, F., Montaner, D., Far field optical nanoscopy: How far can you go in nanometric characterization without resolving all the details?, Applied Surface Science 281 , pp. 89-95 (2013)
267. Stukelj, R; Sustar, V; Mrvar-Brecko, A; Veranic, P; Hagerstrand, H; Kralj-Iglic, V; Sevsek, F; Suppression of membrane vesiculation as anticoagulant and anti-metastatic mechanism. Role of stability of narrow necks, GENERAL PHYSIOLOGY AND BIOPHYSICS, Volume: 32 Issue: 1 Pages: 33-45; DOI: 10.4149/gpb_2013007; Published: MAR 2013
268. Kuhlmann, J.W., Mey, I.P., Steinem, C., Modulating the lateral tension of solvent-free pore-spanning membranes, Langmuir, Volume 30, Issue 27, 15 July 2014, Pages 8186-8192
269. Montgomery, P.C. , Leong-Hoi, A. , Emerging optical nanoscopy techniques, Nanotechnology, Science and Applications, Volume 8, 29 September 2015, Article number A03, Pages 31-44

270. Montgomery, P.C., Leong-Hoi, A., Anstotz, F., Mitev, D., Pramatarova, L., Haeberlé, O., From superresolution to nanodetection: Overview of far field optical nanoscopy techniques for nanostructures, Journal of Physics: Conference Series, Volume 682, Issue 1, 9 February 2016, Article number 012010, Conference on Light in Nanoscience and Nanotechnology 2015, LNN 2015; Hissar; Bulgaria; 19 October 2015 through 23 October 2015; Code 119967
271. Montgomery, P.C., Leong-Hoi, A., Anstotz, F., Mitev, D., Pramatarova, L., Haeberlé, P. C. Montgomery and A. Leong-Hoi, F. Anstotz, D. Mitev, L. Pramatarova, O. Haeberlé, From superresolution to nanodetection: Overview of far field optical nanoscopy techniques for nanostructures, Journal of Physics: Conference Series 682 (2016) 012010.

K. Antonova, V. Vitkova and M. D. Mitov, "Deformation of giant vesicles in AC electric fields —Dependence of the prolate-to-oblate transition frequency on vesicle radius", *Europhys. Lett. EPL,* 89 (2010) 38004

брой цитирания: 12

272. P. Peterlin, Frequency-dependent electrodeformation of giant phospholipid vesicles in AC electric field, J Biol Phys, 36(4): 339–354; DOI 10.1007/s10867-010-9187-3 (2010)
273. T. Yamamoto, S. Aranda-Espinoza, R. Dimova, and R. Lipowsky, Stability of Spherical Vesicles in Electric Fields, Langmuir, DOI: 10.1021/la1011132 (2010)
274. J. T. Schwalbe, P. M. Vlahovska, and M. J. Miksis, Vesicle electrohydrodynamics, PHYSICAL REVIEW E 83, 046309 (2011)
275. Vlahovska, P.M., Nonequilibrium dynamics of lipid membranes: Deformation and stability in electric fields, in Advances in Planar Lipid Bilayers and Liposomes 12 (C) , pp. 101-146 (2010)
276. Salipante, PF; Knorr, RL; Dimova, R; Vlahovska, PM, Electrodeformation method for measuring the capacitance of bilayer membranes, SOFT MATTER; Volume: 8 Issue: 14 Pages: 3810-3816; DOI: 10.1039/c2sm07105c; Published: 2012
277. R. Dimova, Membrane Electroporation in High Electric Fields, in Advances in Electrochemical Science and Engineering: Bioelectrochemistry, edited by R. C. Alkire, D. M. Kolb, J. Lipkowski, Wiley-VCH, Weinheim, Editon edn., vol. 13, pp. 335-367 (2011) DOI: 10.1002/9783527644117.ch7
278. Nganguia, H, Y-N Young, Equilibrium electrodeformation of a spheroidal vesicle in an ac electric field. Physical Review E, 11/2013; 88(5-1):052718. DOI:10.1103/PhysRevE.88.052718
279. P Brown, HB Eral, Smart and Stimuli-Responsive Colloids (Chapter 12), in Nanocolloids: A Meeting Point for Scientists and Technologists, eds. Sánchez-Domínguez, M., Rodríguez-Abreu, C., (Elsevier) 23 March 2016, Pages 1-514
280. Kumari Priti Sinha and Rochish M Thaokar, Electrohydrodynamics of a compound vesicle under an AC electric field, online 10 May 2017, Journal of Physics: Condensed Matter, Volume 29, Number 27
281. Kumari Priti Sinha, Rochish M Thaokar, Shape deformation of a vesicle under axisymmetric non-uniform alternating electric field, arXiv:1801.06658 [cond-mat.soft] (2018)

282. Nganguia, Herve. Electro-deformation of a moving boundary: A drop interface and a lipid bilayer membrane, New Jersey Institute of Technology, ProQuest Dissertations Publishing, 2014. 3709935.
283. Ping, Bin, "Comparative Deformability Characterization On HIV Variants Using a Solid State Nanopore" (2018). Mechanical Engineering Research Theses and Dissertations. 3; Southern Methodist University; Texas, USA; https://scholar.smu.edu/engineering_mechanical_etds/3

V. Vitkova, K. Antonova, G. Popkirov, M.D. Mitov, Yu.A. Ermakov, and I. Bivas "Electrical resistivity of the liquid phase of vesicular suspensions prepared by different methods", *J. Phys.: Conf. Ser.* 253 012059 (2010); ISSN: 17426588

брой цитирания: 1

284. Qiuhong Yu, Zhengxi Zhang, Jianbo Sun, Yuqiong Xia, Quan Du, Dehai Liang, Effects of chain length and hydrophobicity/charge ratio of AMP on its antimicrobial activity, Sci. China Chem. (2017) 60: 385. https://doi.org/10.1007/s11426-016-0415-6

Victoria Vitkova, Chaouqi Misbah. DYNAMICS OF LIPID VESICLES: FROM THERMAL FLUCTUATIONS TO RHEOLOGY. ADVANCES IN PLANAR LIPID BILAYERS AND LIPOSOMES, 14, ELSEVIER ACADEMIC PRESS INC, 525 B STREET, SUITE 1900, SAN DIEGO, CA 92101-4495 USA, 2011, ISBN:978-0-12-391071-4; 978-0-12-387720-8

брой цитирания: 1

285. Liu, K (Liu, Kai); Hamilton, C (Hamilton, Caleb); Allard, J (Allard, Jun); Lowengrub, J (Lowengrub, John); Li, SW (Li, Shuwang), Wrinkling dynamics of fluctuating vesicles in time-dependent viscous flow, SOFT MATTER, Volume: 12 Issue: 26 Pages: 5663-5675; DOI: 10.1039/c6sm00499g, Published: 2016

Vitkova V., Mitkova D., Stoyanova-Ivanova A., Kozarev N., Bivas I. Bending rigidity of lipid membranes and the pH of aqueous surroundings, *C. R. Acad. Bulg. Sci.*, 65 (3), pp. 329-334 (2012)

брой цитирания: 3

286. Genova, J. Marin Mitov Lectures. Measuring the Bending Elasticity of Lipid Bilayers, Advances in Planar Lipid Bilayers and Liposomes 17 , pp. 1-27 (2013)
287. S Penič, L Mesarec, M Fošnarič, V Kralj Iglič, S Kralj, W Góźdź and A Iglič, Modeling of closed membrane shapes, Journal of Physics Conference Series, 558 012010 doi:10.1088/1742-6596/558/1/012010 (2014)
288. Luka Mesarec, Miha Fošnarič, Samo Penič, Veronika Kralj Iglič, Samo Kralj, Wojciech Góźdź, and Aleš Iglič, , Numerical Study of Membrane Configurations, Advances in Condensed Matter Physics, Volume 2014 (2014), Article ID 373674, 7 pages, http://dx.doi.org/10.1155/2014/373674

Mitkova, D., A. Stoyanova-Ivanova, Yu. A. Ermakov and V. Vitkova, Experimental study of the bending elasticity of charged lipid bilayers in aqueous solutions with pH5, *Journal of Physics: Conference Series* 398 012028 (2012)

брой цитирания: 1

289. Mansi Seth, Arun Ramachandran, and L. Gary Leal, Direct Measurements of Effect of Counterion Concentration on Mechanical Properties of Cationic Vesicles, Langmuir 2013, 29, 14057−14065, DOI: 10.1021/la403329h

Mitkova, D.; Stoyanova-Ivanova, A; Georgieva, S; Todorov, P; Kozarev, N; Ermakov, YA; Vitkova, V, Charged Lipid Bilayers in Aqueous Surroundings with Low pH, *ADVANCES IN PLANAR LIPID BILAYERS AND LIPOSOMES*, VOL 18, Book Series: Advances in Planar Lipid Bilayers and Liposomes, Volume: 18 Pages: 1-20
DOI: 10.1016/B978-0-12-411515-6.00001-1, Published: 2013

брой цитирания: 1

290. Dimova, R., Recent developments in the field of bending rigidity measurements on membranes, Advances in Colloid and Interface Science, Volume 208, June 2014, Pages 225-234 (2014)

Vitkova, V., Petrov, A.G., Lipid Bilayers and Membranes. Material Properties. (2013) *Advances in Planar Lipid Bilayers and Liposomes*, 17, pp. 89-138

брой цитирания: 11

291. John F. Nagle, Michael S. Jablin, Stephanie Tristram-Nagle, Sugar does not affect the bending and tilt moduli of simple lipid bilayers, Chemistry and Physics of Lipids 196 (2016)
292. Dimova, R., Recent developments in the field of bending rigidity measurements on membranes, Advances in Colloid and Interface Science, Volume 208, June 2014, Pages 225-234 (2014)
293. Bassereau, P., Sorre, B., Lévy, A., Bending lipid membranes: Experiments after W. Helfrich's model, Advances in Colloid and Interface Science, Volume 208, June 2014, Pages 47-57
294. Nagle, J.F. , Jablin, M.S., Tristram-Nagle, S., Akabori, K., What are the true values of the bending modulus of simple lipid bilayers?, Chemistry and Physics of Lipids, Volume 185, 2015, Pages 3-10
295. Tabaei, SR; Jackman, JA; Kim, SO; Zhdanov, VP; Cho, NJ, Solvent-Assisted Lipid Self-Assembly at Hydrophilic Surfaces: Factors Influencing the Formation of Supported Membranes, LANGMUIR Volume: 31 Issue: 10 Pages: 3125-3134 Published: MAR 17 2015
296. Oh, Eunkyul; Jackman, Joshua A.; Yorulmaz, Saziye; Zhdanov, VP; Lee, H; Cho, NJ; Contribution of Temperature to Deformation of Adsorbed Vesicles Studied by Nanoplasmonic Biosensing; LANGMUIR Volume: 31 Issue: 2 Pages: 771-781 Published: JAN 20 2015

297. Vlahovska, Petia M., Voltage-morphology coupling in biomimetic membranes: dynamics of giant vesicles in applied electric fields; SOFT MATTER Volume: 11 Issue: 37 Pages: 7232-7236 Published: 2015
298. John F. Nagle, Michael S. Jablin, Stephanie Tristram-Nagle, Sugar does not affect the bending and tilt moduli of simple lipid bilayers, Chemistry and Physics of Lipids 196 (2016)
299. Nico Fricke, Rumiana Dimova, GM1 Softens POPC Membranes and Induces the Formation of Micron-Sized Domains, Biophysical Journal, Volume 111, Issue 9, 1 November 2016, Pages 1935–1945
300. Salac, David, Vesicles in magnetic fields, arXiv:1608.05587 [cond-mat.soft], 19 Aug 2016
301. Adarsh K. Chaurasia, Andrew M. Rukangu, Michael K. Philen, Gary D. Seidel, and Eric C. Freeman, Evaluation of bending modulus of lipid bilayers using undulation and orientation analysis, Phys. Rev. E 97, 032421 – Published 30 March 2018

Genova, J., Vitkova, V., Bivas, I., Registration and analysis of the shape fluctuations of nearly spherical lipid vesicles, *Physical Review E - Statistical, Nonlinear, and Soft Matter Physics*, volume 88, issue 2, year 2013, 022707

брой цитирания: 10

302. Abreu, D., Levant, M., Steinberg, V., Seifert, U., Fluid vesicles in flow, Advances in Colloid and Interface Science, volume 208, year 2014, pp. 129 – 141*
303. Dimova, R., Recent developments in the field of bending rigidity measurements on membranes, Advances in Colloid and Interface Science, Volume 208, June 2014, Pages 225-234 (2014)
304. Nagle, J.F., Jablin, M.S., Tristram-Nagle, S., Akabori, K., What are the true values of the bending modulus of simple lipid bilayers?, Chemistry and Physics of Lipids, Volume 185, 2015, Pages 3-10
305. Montgomery, P.C. , Leong-Hoi, A. , Emerging optical nanoscopy techniques, Nanotechnology, Science and Applications, Volume 8, 29 September 2015, Article number A03, Pages 31-44
306. Galimzyanov, TR; Kuzmin, PI; Pohl, P; Akimov, SA, Elastic deformations of bolalipid membranes, SOFT MATTER Volume: 12 Issue: 8 Pages: 2357-2364 (2016)
307. Liu, K; Hamilton, C; Allard, J; Lowengrub, J; Li, SW, Wrinkling dynamics of fluctuating vesicles in time-dependent viscous flow, SOFT MATTER Volume: 12 Issue: 26 Pages: 5663-5675 (2016)
308. Montgomery, P.C., Leong-Hoi, A., Anstotz, F., Mitev, D., Pramatarova, L., Haeberlé, O., From superresolution to nanodetection: Overview of far field optical nanoscopy techniques for nanostructures, Journal of Physics: Conference Series, Volume 682, Issue 1, 9 February 2016, Article number 012010
309. T. R. Galimzyanov, P. I. Kuzmin, P. Pohl, S.y A. Akimov, Splay and tilt energy of bipolar lipid membranes, Soft Condensed Matter (cond-mat.soft), (2014) arXiv:1412.8149 [cond-mat.soft].
310. D. Abreu, “Vesicles in flow : role of thermal fluctuations”, Ph.D. Thesis (2014), Institut für Theoretische Physik II; Fakultät Mathematik und Physik; Universität Stuttgart; http://elib.uni-stuttgart.de/opus/volltexte/2014/9312/

311. Lic. Carla Cecilia Fraenza, Caracterización de la dinámica molecular en nanoestructuras supramoleculares globulares mediante relaxometría magnética nuclear, PhD Thesis, Facultad de Matemática, Astronomía, Física y Computación como parte de los requerimientos para la obtención del grado de Doctor en Física de la Universidad Nacional de Córdoba (2016) https://rdu.unc.edu.ar/bitstream/handle/11086/4042/T%20F%20Fraenza_2016.pdf?sequence=1

D. Mitkova, N. Marukovich, Y. A. Ermakov, V. Vitkova, Bending rigidity of phosphatidylserine-containing lipid bilayers in acidic aqueous solutions, *Colloids and Surfaces A: Physicochem. Eng. Aspects* 460, pp. 71–78 (2014)

брой цитирания: 7

312. Tanja Pott, Claire Gerbeaud, Nina Barbier, Philippe Méléard, Melittin modifies bending elasticity in an unexpected way, Chemistry and Physics of Lipids. 05/2014; 185. DOI: 10.1016/j.chemphyslip.2014.05.004
313. Genova, J., Ulrih, N.P., Kralj-Iglič, V., Iglič, A., Bivas, I., Bending elasticity modulus of giant vesicles composed of Aeropyrum pernix K1 archaeal lipid, Life Volume 5, Issue 2, 26 March 2015, Pages 1101-1110
314. Gomes, M.J., Dreier, J., Brewer, J., Martins, S., Brandl, M., Sarmento, B., A new approach for a blood-brain barrier model based on phospholipid vesicles: Membrane development and siRNA-loaded nanoparticles permeability (Article), Journal of Membrane Science, Volume 503, April 01, 2016, Pages 8-15
315. Reif, MM; Kallies, C; Knecht, V, Effect of Sodium and Chloride Binding on a Lecithin Bilayer. A Molecular Dynamics Study, MEMBRANES, Volume: 7 Issue: 1, Article Number: 5, DOI: 10.3390/membranes7010005, Published: MAR 2017
316. Kuan-Yu Tsang, Yei-Chen Lai, Yun-Wei Chiang, and Yi-Fan Chen, Coupling of lipid membrane elasticity and in-plane dynamics, Phys. Rev. E 96, 012410 – Published 19 July 2017
317. Yuki Takechi-Haraya, Yukihiro Goda, and Kumiko Sakai-Kato, Atomic Force Microscopy Study on the Stiffness of Nanosized Liposomes Containing Charged Lipids, Langmuir, DOI: 10.1021/acs.langmuir.8b01121; Publication Date (Web): June 5, 2018
318. Hammad A. Faizi, Shelli L. Frey, Jan Steinkühler, Rumiana Dimova and Petia M. Vlahovska, Bending rigidity of charged lipid bilayer membranes, DOI: 10.1039/C9SM00772E (Paper) Soft Matter, 2019, 15, 6006-6013

V. Vitkova, D. Mitkova, G. Staneva, Lyso- and omega-3-containing phosphatidylcholines alter the bending elasticity of lipid membranes, *Colloids and Surfaces A: Physicochem. Eng. Aspects* 460, pp. 191–195 (2014)

брой цитирания: 2

319. Castagnetti, S., Božič, B., Svetina, S., Mechanical and molecular basis for the symmetrical division of the fission yeast nuclear envelope, Physical Chemistry Chemical Physics, Volume 17, Issue 24, 28 June 2015, Pages 15629-15636
320. Sanket M. Shaha, , Mukul Ashtikarb, Ankitkumar S. Jaina, Dinesh T. Makhijac,Yuvraj Nikamd, Rajiv P. Guded, Frank Steinigere, Aarti A. Jagtapc, Mangal S. Nagarsenkera,

Alfred Fahr, LeciPlex, invasomes, and liposomes: A skin penetration study, International Journal of Pharmaceutics 490 (2015) 391–403

C. Minetti, V. Vitkova, F. Dubois, I. Bivas, Digital holographic miscroscopy as a tool to study the thermal shape fluctuations of lipid vesicles, *Optics Letters* 41(8): 1833-1836 (2016)

брой цитирания: 9

321. Zhang, J., Ma, C., Dai, S., Di, J., Li, Y., Xi, T., Zhao, J., Transmission and total internal reflection integrated digital holographic microscopy, Optics Letters, Volume 41, Issue 16, 15 August 2016, Pages 3844-3847
322. Wang, P., Improved angular multiplexing method with polarization interference for enhancing the resolution of digital holographic image, Optik - International Journal for Light and Electron Optics, Volume 131, February 2017, Pages 312-316 (2017)
323. Guckenberger, A; Gekle, S, Theory and algorithms to compute Helfrich bending forces: a review, JOURNAL OF PHYSICS-CONDENSED MATTER,Volume: 29 Issue: 20, Article Number: 203001, DOI: 10.1088/1361-648X/aa6313, Published: MAY 24 2017
324. Xuefei He, Katharina Gaus, and Woei Ming Lee, Label-free dynamic volumetric imaging of deforming giant unilamellar vesicles under micro-flows, Optics in the Life Sciences Congress, Bio-Optics: Design and Application 2017, San Diego, California United States, 2–5 April 2017, OSA Technical Digest (online) (Optical Society of America, 2017), paper BoS2A.2, ISBN: 978-1-943580-25-5
325. Rongli Guo and Fan Wang, Compact and stable real-time dual-wavelength digital holographic microscopy with a long-working distance objective, Optics Express Vol. 25, Issue 20, pp. 24512-24520 (2017); https://doi.org/10.1364/OE.25.024512
326. Rongli Guo, Fan Wang, Xiaoying Hu and Wenqian Yang, Off-axis low coherence digital holographic interferometry for quantitative phase imaging with an LED, Published 3 October 2017, Journal of Optics, Volume 19, Number 11
327. Jiwei Zhang, Siqing Dai, Jinzhan Zhong, Teli Xi, Chaojie Ma, Ying Li, Jianglei Di, and Jianlin Zhao, Wavelength-multiplexing surface plasmon holographic microscopy, Optics Express Vol. 26, Issue 10, pp. 13549-13560 (2018) https://doi.org/10.1364/OE.26.013549
328. Luigi Cristofolini, Davide Orsi, Lucio Isa, Characterization of the dynamics of interfaces and of interface-dominated systems via spectroscopy and microscopy techniques, Current Opinion in Colloid & Interface Science, Volume 37, September 2018, Pages 13-32, https://doi.org/10.1016/j.cocis.2018.06.001
329. ДМ Клычкова, ВП Рябухо, ПРОСТРАНСТВЕННЫЙ СПЕКТР СИГНАЛА КОГЕРЕНТНОСТИ ПРИ ДЕФОКУСИРОВКЕ ИЗОБРАЖЕНИЯ ОБЪЕКТА В ЦИФРОВОЙ ГОЛОГРАФИЧЕСКОЙ МИКРОСКОПИИ С ЧАСТИЧНО ПРОСТРАНСТВЕННО КОГЕРЕНТНЫМ ОСВЕЩЕНИЕМ - Компьютерная оптика, 2018 - cyberleninka.ru; https://cyberleninka.ru/article/n/prostranstvennyy-spektr-signala-kogerentnosti-pri-defokusirovke-izobrazheniya-obekta-v-tsifrovoy-gologroficheskoy-mikroskopii-s

R. Georgieva, K. Mircheva, V.Vitkova, K. Balashev, Tz. Ivanova, C. Tessier, K. Koumanov, P. Nuss, A. Momchilova, G. Staneva, Phospholipase A2 induced remodeling processes on liquid-ordered / liquid-disordered membranes containing docosahexaenoic or oleic acid: a comparison study, *Langmuir* 32, 1756−1770 (2016)

брой цитирания: 2

330. Aurélien L. Furlan, Ahmad Saad, Erick J. Dufourc, Julie Géan, Grape tannin catechin and ethanol fluidify oral membrane mimics containing moderate amounts of cholesterol: Implications on wine tasting?, Biochimie 2016 130, 41-48
331. Augusta De Santis, Yaiza Varela, Jesús Sot, Gerardino D'Errico, Félix M. Goñi & Alicia Alonso, Omega-3 polyunsaturated fatty acids do not fluidify bilayers in the liquid-crystalline state, Scientific Reports, volume 8, Article number: 16240 (2018)

C. Minetti, V. Vitkova, F. Dubois and I. Bivas, New optical method for measuring the bending elasticity of lipid bilayers, *Journal of Physics: Conference S*eries 682 (2016) 012031

брой цитирания: 2

332. Dominguez, G.A., Perlo, J., Fraenza, C.C., Anoardo, E., Measurement of the bending elastic modulus in unilamellar vesicles membranes by fast field cycling NMR relaxometry (Article), Chemistry and Physics of Lipids, Volume 201, 1 December 2016, Pages 21-2; https://www.sciencedirect.com/science/article/pii/S0009308416301505?via%3Dihub
333. Cristofolini, L., Orsi, D., Isa, L., Characterization of the dynamics of interfaces and of interface-dominated systems via spectroscopy and microscopy techniques, Current Opinion in Colloid and Interface Science, Volume 37, September 2018, Pages 13-32, https://www.sciencedirect.com/science/article/pii/S1359029418300116?via%3Dihub

K. Antonova, V. Vitkova, C. Meyer, Membrane tubulation from giant lipid vesicles in alternating electric fields, *Physical Review E - Statistical, Nonlinear, and Soft Matter Physics* 93, 012413 (2016)

брой цитирания: 5

334. Dayinta L. Perrier, Lea Rems, Pouyan E. Boukany, Lipid vesicles in pulsed electric fields: Fundamental principles of the membrane response and its biomedical applications, Advances in Colloid and Interface Science (2017), http://dx.doi.org/10.1016/j.cis.2017.04.016
335. Yasmine Miguel Serafini Micheletto a, Nádya Pesce da Silveira, Alexandre Gonçalves Dal-Bó, Fernando Carlos Giacomelli, Newton Luiz Dias Filho, Tiago Elias Allievi Frizon, Carlos Manuel Marques, André Pierre Schroder, Study on the Application of Electric Field to Giant Vesicles Comprised of 1,2-Dilauroyl-Sn-Glycero-3-Phosphatidylcholine Using Optical Fluorescence Microscopy, Materials Research 2017, DOI: http://dx.doi.org/10.1590/1980-5373-MR-2016-0700
336. Dayinta L. Perrier, Lea Rems, Michiel T. Kreutzer & Pouyan E. Boukany, The role of gel-phase domains in electroporation of vesicles, Scientific Reports, volume 8, Article number: 4758 (2018); doi:10.1038/s41598-018-23097-9
337. Kumari Priti Sinha, Rochish M Thaokar, Shape deformation of a vesicle under axisymmetric non-uniform alternating electric field, arXiv:1801.06658 [cond-mat.soft] (2018)

338. A. I. Lesiuk, M. F. Ledney, O. S. Tarnavskyy, Orientational instability of nematic liquid crystal in a homeotropic cell with boundary conditions controlled by an electric field, August 2018, Liquid Crystals, DOI:10.1080/02678292.2018.1508769

D. Mitkova and V. Vitkova, The aqueous surroundings alters the bending rigidity of lipid membranes, *Russian Journal of Electrochemistry*, 2016, Vol. 52, No. 12, pp. 1172–1178

брой цитирания: 3

339. Sergey A. Akimov, Michael A. Polynkin, Irene Jiménez-Munguía, Konstantin V. Pavlov, and Oleg V. Batishchev, Phosphatidylcholine Membrane Fusion is pH-Dependent, Int. J. Mol. Sci. 2018, 19(5), 1358; doi:10.3390/ijms19051358
340. Ramakrishnan Natesan, Ryan P Bradley, Richard Tourdot, Ravi Radhakrishnan, Biophysics of membrane curvature remodeling at molecular and mesoscopic lengthscales, May 2018, Journal of Physics Condensed Matter 30(27), DOI: 10.1088/1361-648X/aac702
341. Hammad A. Faizi, Shelli L. Frey, Jan Steinkühler, Rumiana Dimova and Petia M. Vlahovska, Bending rigidity of charged lipid bilayer membranes, DOI: 10.1039/C9SM00772E (Paper) Soft Matter, 2019, 15, 6006-6013

V. Vitkova, D. Mitkova, K. Antonova, G. Popkirov, R. Dimova, Sucrose alter the electric capacitance and dielectric permittivity of lipid bilayers, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, vol. 557, p. 51-57 (2018)

брой цитирания: 1

342. Vijay Kumar, Simranjeet Singh, Bhavana Srivastava, Sapna Avinash Kondalkar, Vandana Bharthi, Volatile and semi-volatile compounds of Tephrosia purpurea and its medicinal activities: Experimental and computational studies, June 2019, Biocatalysis and Agricultural Biotechnology, DOI: 10.1016/j.bcab.2019.101222

V. Vitkova, V. Doltchinkova, M. D. Mitov, and I. Bivas, „Membrane bending elasticity of human erythrocyte ghosts", Journal of Optoelectronics and Advanced Materials, 9, 431 (2007).

брой цитирания: 1

343. Sinclair GA, Physical and Chemical Constraints on the Near-Bottom Ecology of Karenia brevis, A dissertation submitted to the Graduate Faculty of North Carolina State University in partial fulfillment of the requirements for the Degree of Doctor of Philosophy, Marine Earth and Atmospheric Sciences, Raleigh, North Carolina, (2008)