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Publication summary

Journals					Qty					IF (2022)
Adv. Funct. Mater	-	-	-	-	1	-	-	-	-	19.0
Nat. Commun.	-	-	-	-	1	-	-	-	-	16.6
J. Colloid Interface Sc.	-	-	-	-	1	-	-	-	-	9.9
ACS Appl. Mater. Interfaces	-	-	-	-	2	-	-	-	-	9.5
J. Phys. Chem. Lett.	-	-	-	-	1	-	-	-	-	5.7
Sci. Rep.	-	-	-	-	1	-	-	-	-	4.6
Polymer	-	-	-	-	1	-	-	-	-	4.6
Langmuir	-	-	-	-	4	-	-	-	-	3.9
IUCr J.	-	-	-	-	1	-	-	-	-	3.9
Cryst. Growth Des.	-	-	-	-	1	-	-	-	-	3.8
J. Phys. Chem. C-	-	-	-	-	1	-	-	-	-	3.7
Phys. Rev. B	-	-	-	-	1	-	-	-	-	3.7
Chem. Phys. Lipids	-	-	-	-	1	-	-	-	-	3.4
Biochim. Biophys. Acta	-	-	-	-	1	-	-	-	-	3.4
J. Phys. Chem. B-	-	-	-	-	3	-	-	-	-	3.3
Biophys. Reviews	-	-	-	-	1	-	-	-	-	2.8
J. Mag. Mag. Mater.	-	-	-	-	1	-	-	-	-	2.7
J. Synchrotron Rad.	-	-	-	-	1	-	-	-	-	2.5
Mater. Res. Express	-	-	-	-	1	-	-	-	-	2.3
Europhys. Lett.	-	-	-	-	1	-	-	-	-	1.8
Instrum. Exp. Tech.	-	-	-	-	1	-	-	-	-	0.6

Journal Articles (Chronologically, latest first)

1. S. Hövelmann, E. Dieball, J. Kuhn, M. Dargasz, **R. P. Giri**, F. Reise, M. Paulus, T. Lindhorst, B. Murphy, 'Photoinduced bidirectional mesophase transition in vesicles containing azobenzene amphiphiles', *IUCr Journal*, 11, 1-8 (2024); DOI: 10.1107/S2052252524004032
2. S. Chowdhury, M. K. Mukhopadhyay, M. K. Sanyal, S. Bhunia, B. Satpati, **R. P. Giri**, B. Bharatiya, C. Shen, B. M. Murphy, 'Solution processed hybrid lead perovskite films for white light emission and lasing applications', *Adv. Funct. Mater.*, 2401334 (2024); DOI: 10.1002/adfm.202401334

3. J. E. Warias, L. Petersdorf, S. C. Hövelmann, **R. P. Giri**, C. Lemke, S. Festersen, M. Greve, P. Mandin, D. LeBideau, F. Bertram, O. M. Magnussen, B. M. Murphy, 'The laser pump X-ray probe option at LISA P08 PETRA III', *J. Synchrotron Rad.*, *In Press* (2024)
4. **R. P. Giri***, S. Chowdhury, M. K. Mukhopadhyay, A. Chakrabarti, M. K. Sanyal, 'Ganglioside GM1 drives hemin and protoporphyrin adsorption in phospholipid membrane: a structural study', *J. Phys. Chem. B* 128, 2745-2754, 2024, DOI: 10.1021/acs.jpcc.3c08239
5. H. Fernandez, A. El Haitami, A. Hemmerle, C. Shen, P. Jordt, **R. P. Giri**, P. Fontaine, S. Cantin, 'Tuning the order of poly (3-alkylthiophene) derivatives ultrathin films through side-chain polarity: From a short-range ordered monolayer to a highly crystalline bilayer', *Polymer* 294, 126719 (2024), DOI: 10.1016/j.polymer.2024.126719
6. A. Das, **R. P. Giri**, M. K. Mukhopadhyay, 'A liquid cell for structural investigations of supported lipid membrane by synchrotron X-rays over a wide temperature range', *Instrum. Exp. Tech.*, *Accepted* (2023)
7. G. Sharma, A. Seth, **R. P. Giri**, N. Hayen, B. M. Murphy, S. K. Ghosh, 'Ionic liquid-induced assembly of DNA at air-water interface', *Langmuir* 39, 16079-16089 (2023), DOI: 10.1021/acs.langmuir.3c02212
8. J. E. Warias, F. Reise, S. C. Hövelmann, **R. P. Giri**, M. Röhl, J. Kuhn, M. Jacobsen, K. Chatterjee, T. Arnold, C. Shen, S. Festersen, A. Sartori, P. Jordt, O. M. Magnussen, T. K. Lindhorst & B. M. Murphy, 'Photoinduced bidirectional switching in lipid membranes containing azobenzene glycolipids', *Sci. Rep.* 13, 11480 (2023); DOI: 10.1038/s41598-023-38336-x
9. **R. P. Giri**, M. K. Mukhopadhyay, M. K. Sanyal, D. Bose, A. Chakrabarti, P. Quan, W. Bu, B. Lin, 'Structural flexibility of proteins dramatically alters membrane stability - A novel aspect of lipid-protein interaction' *J. Phys. Chem. Lett.* 13, 11430-11437 (2022); DOI: 10.1021/acs.jpclett.2c02971
10. **R. P. Giri**, M. K. Mukhopadhyay, 'Humidity responsive polymer cushion supported biomimetic membrane: A model system for X-ray studies', *Langmuir* 38, 49, 15294-15302 (2022); DOI: 10.1021/acs.langmuir.2c02533
11. A. Sartori, **R. P. Giri**, H. Fujii, S. Hövelmann, J. Warias, P. Jordt, C. Shen, B. Murphy, O. Magnussen, 'Role of chemisorbing species in growth at liquid metal-electrolyte interfaces revealed by in situ X-ray scattering', *Nature Communications* 13, 5421 (2022); DOI: 10.1038/s41467-022-32932-7
12. J. P. Hazelnis, A. Sartori, Q. Cheek, **R. P. Giri**, M. M. MacInnes, B. Murphy, O. Magnussen, S. Maldonado, 'Detection of Ge-containing adlayers at the liquid Hg/water interface by in situ X-ray reflectivity in aqueous borate electrolytes containing dissolved GeO₂', *J. Phys. Chem C* 126, 8177-8189 (2022); DOI: 10.1021/acs.jpcc.2c01671
13. J. Smits, **R. P. Giri**, C. Shen, D. Mendonça, B. Murphy, P. Huber, K. Rezwan, M. Maas, 'Assessment of nanoparticle immersion depth at liquid interfaces from chemically equivalent macroscopic surfaces', *J. Colloid Interface Sci.* 611, 670-683 (2022); DOI: 10.1016/j.jcis.2021.12.113
14. P. Mondal, **R. P. Giri**, B. Murphy, S. K. Ghosh, 'Self-assembly of Graphene Oxide Nano-flakes in Lipid Monolayer at Air-water Interface', *ACS Appl. Mater. Interfaces* 13, 57023-57035, (2021); DOI: 10.1021/acsami.1c19004
15. J. Smits, **R. P. Giri**, C. Shen, D. Mendonça, B. Murphy, P. Huber, K. Rezwan, M. Maas, 'Synergistic and competitive adsorption of hydrophilic nanoparticles and oil-Soluble surfactants at the oil-Water interface', *Langmuir* 37, 5659-5672 (2021); DOI: 10.1021/acs.langmuir.1c00559

16. D. Pattadar, Q. Cheek, A. Sartori, Y. Zhao, **R. P. Giri**, B. Murphy, O. Magnussen, S. Maldonado, 'Evidence for Facilitated Surface Transport during Ge Crystal Growth by Indium in Liquid Hg-In Alloys at Room Temperature', *Cryst. Growth Des.* 21, 1645-1656 (2021); DOI: 10.1021/acs.cgd.0c01485
17. S. Sarkar, D. Bose, **R. P. Giri**, M. K. Mukhopadhyay, A. Chakrabarti, 'Effects of GM1 on brain spectrin-aminophospholipid interactions', *Biochim. Biophys. Acta Biomembr.* 1861, 298-305 (2019); DOI: 10.1016/j.bbamem.2018.06.011
18. V. N. Gaonkar, E. T. Dias, A. B. Dey, **R. P. Giri**, A. K. Nigam, K. R. Priolkar, 'Role of Tin and Carbon in the magnetic interactions in Mn_3SnC ', *J. Magn. Magn. Mater.* 471, 215-219 (2019); DOI: 10.1016/j.jmmm.2018.09.070
19. S. Biswas, D. Jana, G. S. Kumar, S. Maji, P. Kundu, U. K. Ghorai, **R. P. Giri**, B. Das, N. Chattopadhyay, B. K. Ghorai, S. Acharya, 'Supramolecular aggregates of tetraphenylethene-cored AIEgen toward mechanoluminescent and electroluminescent devices', *ACS Appl. Mater. Interfaces* 10, 17409-17418 (2018); DOI: 10.1021/acsami.8b00165
20. G. Bhattacharya, S. Mitra, P. Mandal, S. Dutta, **R. P. Giri**, S. K. Ghosh, 'Thermodynamics of interaction of ionic liquids with lipid monolayer', *Biophys. Rev.* 10, 709-719 (2018); DOI: 10.1007/s12551-017-0390-3
21. **R. P. Giri**, M. K. Mukhopadhyay, U. K. Basak, A. Chakrabarti, M. K. Sanyal, B. Runge, B. M. Murphy, 'Continuous uptake or saturation—investigation of concentration and surface-packing-specific hemin interaction with lipid membranes', *J. Phys. Chem. B* 122, 7547-7554 (2018); DOI: 10.1021/acs.jpcc.8b03327
22. G. Bhattacharya, **R. P. Giri**, A. Dubey, S. Mitra, R. Priyadarshini, A. Gupta, M. K. Mukhopadhyay, S. K. Ghosh, 'Structural changes in cellular membranes induced by ionic liquids: From model to bacterial membranes', *Chem. Phys. Lipids* 215, 1-10 (2018); DOI: 10.1016/j.chemphyslip.2018.06.001
23. **R. P. Giri**, A. Chakrabarti and M. K. Mukhopadhyay, 'Cholesterol induced structural changes in saturated phospholipid model membranes revealed through x-ray scattering technique', *J. Phys. Chem. B* 121, 4081-4090 (2017); DOI: 10.1021/acs.jpcc.6b12587
24. **R. P. Giri**, M. K. Mukhopadhyay, M. Mitra, A. Chakrabarti, M. K. Sanyal, S. K. Ghosh, S. Bera, L. B. Lurio, Y. Ma, S. K. Sinha, 'Differential adsorption of a membrane skeletal protein, spectrin, in phospholipid membranes', *Europhys. Lett.* 118, 58002 (2017); DOI: 10.1209/0295-5075/118/58002
25. G. Bhattacharya, **R. P. Giri**, H. Saxena, V. V. Agarwal, A. Gupta, M. K. Mukhopadhyay, S. K. Ghosh, 'X-ray reflectivity study of the interaction of an imidazolium-based ionic liquid with soft supported lipid membrane', *Langmuir* 33, 1295-1304 (2017); DOI: 10.1021/acs.langmuir.6b03192
26. A. Indra, K. Dey, S. Majumdar, I. Sarkar, S. Francoal, **R. P. Giri**, N. Khan, P. Mandal, S. Giri, 'Magnetoelectric memory in reentrant frozen state and considerable ferroelectricity in multiferroic spin-chain compound Sm_2BaNiO_5 ', *Phys. Rev. B* 95, 094402 (2017); DOI: 10.1103/PhysRevB.95.094402
27. Sk A. K. M. Faruque, **R. P. Giri** and S. Chakraborty, 'Effect of N₂O ratio on the crystallization temperature of ZrO₂ deposited on Si by reactive sputtering in Ar/O₂/N₂O plasma', *Materials Research Express* 3, 116406 (2016); DOI: 10.1088/2053-1591/3/11/116406

Conference Proceedings

- **R. P. Giri**, M. K. Mukhopadhyay, 'Self-assembly of diblock co-polymers at air-water interface: A microscopy and x-ray scattering study', *AIP Conf. Proc.* 1731, 1, 080016 (2016) ; DOI: 10.1063/1.4947894

- G. Bhattacharya, **R. P. Giri**, H. Saxena, V. V. Agrawal, A. Gupta, M. K. Mukhopadhyay, S. K. Ghosh, 'Interaction of imidazolium-based ionic liquids with soft supported lipid membrane', *European Biophysics Journal with Biophysics Letters* 46, S361 (2017)
- A. Sartori, S. Festersen, H. Fujii, J. Warias, **R. P. Giri**, F. Bertram, O. Magnussen, B. M. Murphy, 'In situ X-ray studies of electrodeposition of lead halide compounds on the electrolyte–liquid mercury interface', *Acta Cryst.* A75, e688 (2019); DOI: 10.1107/S2053273319088685

Book Chapter

- S. Sarkar, D. Bose, **R. P. Giri**, M. K. Mukhopadhyay, A. Chakrabarti, 'Status of Membrane Asymmetry in Erythrocytes: Role of Spectrin'. In: K. Chattopadhyay, S. Basu (eds) Biochemical and Biophysical Roles of Cell Surface Molecules. *Advances in Experimental Medicine and Biology*, vol 1112, pp 3-11. Springer Nature, Singapore (2018); DOI: 10.1007/978-981-13-3065-0_1