# Markus S Miettinen

List of Publications by Year
in descending order



| 31 | 1,077 | 706676 14 | 591227 27 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 35 | 35 | 35 | 1576 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Rotational decoupling between the hydrophilic and hydrophobic regions in lipid membranes. Biophysical Journal, 2022, 121, 68-78. | 0.2 | 13 |
| 2 | Probing the Link between Pancratistatin and Mitochondrial Apoptosis through Changes in the Membrane Dynamics on the Nanoscale. Molecular Pharmaceutics, 2022, 19, 1839-1852. | 2.3 | 4 |
| 3 | Emerging Era of Biomolecular Membrane Simulations: Automated Physically-Justified Force Field Development and Quality-Evaluated Databanks. Journal of Physical Chemistry B, 2022, 126, 4169-4183. | 1.2 | 6 |
| 4 | Using Open Data to Rapidly Benchmark Biomolecular Simulations: Phospholipid Conformational Dynamics. Journal of Chemical Information and Modeling, 2021, 61, 938-949. | 2.5 | 24 |
| 5 | Inverse Conformational Selection in Lipidâ€“Protein Binding. Journal of the American Chemical Society, 2021, 143, 13701-13709. | 6.6 | 16 |
| 6 | Spontaneous Curvature Generation in Asymmetric Lipid Bilayers with Tensionless Leaflets. Biophysical Journal, 2020, 118, 386a. | 0.2 | 0 |
| 7 | Formally Correct Solutions to Local Stress Equation can be Non-Physical. Biophysical Journal, 2020, 118, 89a. | 0.2 | 0 |
| 8 | Similar Yet Differentâ€“Structural and Functional Diversity among Arabidopsis thaliana LEA_4 Proteins. International Journal of Molecular Sciences, 2020, 21, 2794. | 1.8 | 12 |
| 9 | Data-Driven Development of Lipid Force Fields for Molecular Dynamics Simulations. Biophysical Journal, 2020, 118, 141a-142a. | 0.2 | 2 |
| 10 | Headgroup Structure and Cation Binding in Phosphatidylserine Lipid Bilayers. Journal of Physical Chemistry B, 2019, 123, 9066-9079. | 1.2 | 43 |
| 11 | Bilayer Membranes with Frequent Flip-Flops Have Tensionless Leaflets. Nano Letters, 2019, 19, 5011-5016. | 4.5 | 60 |
| 12 | LDB: Lipid Databank from the NMRlipids Project. Biophysical Journal, 2019, 116, 91a. | 0.2 | 2 |
| 13 | Refined molecular dynamics simulations of phospholipid bilayers. Advances in Biomembranes and Lipid Self-Assembly, 2019, , 1-38. | 0.3 | 2 |
| 14 | Meniscus Shape around Nanoparticles Embedded in Molecularly Thin Liquid Films. Langmuir, 2018, 34, 11364-11373. | 1.6 | 5 |
| 15 | The glycolipid GM1 reshapes asymmetric biomembranes and giant vesicles by curvature generation. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 5756-5761. | 3.3 | 95 |
| 16 | Molecular electrometer and binding of cations to phospholipid bilayers. Physical Chemistry Chemical Physics, 2016, 18, 32560-32569. | 1.3 | 78 |
| 17 | Initiating Polyglutamine Aggregation --- Computational Clarification of the Structural Details. Biophysical Journal, 2015, 108, 386a. | 0.2 | 0 |
| 18 | Open Collaboration that uses NMR Data to Judge the Correctness of Phospholipid Glycerol and Head Group Structures in Molecular Dynamics Simulations. Biophysical Journal, 2015, 108, 411a. | 0.2 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Coiled-Coils in Phage Display Screening: Insight into Exceptional Selectivity Provided by Molecular Dynamics. Journal of Chemical Information and Modeling, 2015, 55, 495-500. | 2.5 | 2 |
| 20 | Concluding the Amyloid Formation Pathway of a Coiledâ€Coilâ€Based Peptide from the Size of the Critical Nucleus. ChemPhysChem, 2015, 16, 108-114. | 1.0 | 2 |
| 21 | Unfolding and Folding Internal Friction of Î²-Hairpins Is Smaller than That of Î±-Helices. Journal of Physical Chemistry B, 2015, 119, 4565-4574. | 1.2 | 21 |
| 22 | A flexible approach to assess fluorescence decay functions in complex energy transfer systems. BMC Biophysics, 2015, 8, 5. | 4.4 | 2 |
| 23 | Toward Atomistic Resolution Structure of Phosphatidylcholine Headgroup and Glycerol Backbone at Different Ambient Conditions. Journal of Physical Chemistry B, 2015, 119, 15075-15088. | 1.2 | 109 |
| 24 | Architecture of Polyglutamine-containing Fibrils from Time-resolved Fluorescence Decay. Journal of Biological Chemistry, 2014, 289, 26817-26828. | 1.6 | 9 |
| 25 | Stable Polyglutamine Dimers Can Contain Î²-Hairpins with Interdigitated Side Chainsâ€"But Not Î±-Helices, Î²-Nanotubes, Î²-Pseudohelices, or Steric Zippers. Biophysical Journal, 2014, 106, 1721-1728. | 0.2 | 9 |
| 26 | Anomalous and normal diffusion of proteins and lipids in crowded lipid membranes. Faraday Discussions, 2013, 161, 397-417. | 1.6 | 170 |
| 27 | Assessing Polyglutamine Conformation in the Nucleating Event by Molecular Dynamics Simulations. Journal of Physical Chemistry B, 2012, 116, 10259-10265. | 1.2 | 31 |
| 28 | Static charges cannot drive a continuous flow of water molecules through a carbon nanotube. Nature Nanotechnology, 2010, 5, 555-557. | 15.6 | 71 |
| 29 | Membrane Proteins Diffuse as Dynamic Complexes with Lipids. Journal of the American Chemical Society, 2010, 132, 7574-7575. | 6.6 | 157 |
| 30 | Concerted diffusion of lipids in raft-like membranes. Faraday Discussions, 2010, 144, 411-430. | 1.6 | 92 |
| 31 | Ion Dynamics in Cationic Lipid Bilayer Systems in Saline Solutions. Journal of Physical Chemistry B, 2009, 113, 9226-9234. | 1.2 | 38 |