# Claudia Steinem

List of Publications by Year
in descending order

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| 190 | 8,268 | 46918 | 54797 |
|---|---|---|---|
| papers | citations | 47 h-index | 84 g-index |

| 209 | 209 | 209 | 8110 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Piezoelectric Mass-Sensing Devices as Biosensorsâ€"An Alternative to Optical Biosensors?. Angewandte Chemie - International Edition, 2000, 39, 4004-4032. | 7.2 | 617 |
| 2 | Shiga toxin induces tubular membrane invaginations for its uptake into cells. Nature, 2007, 450, 670-675. | 13.7 | 538 |
| 3 | Macroporous p-Type Silicon Fabryâ^'Perot Layers. Fabrication, Characterization, and Applications in Biosensing. Journal of the American Chemical Society, 1998, 120, 12108-12116. | 6.6 | 381 |
| 4 | Hsp70 Translocates into the Plasma Membrane after Stress and Is Released into the Extracellular Environment in a Membrane-Associated Form that Activates Macrophages. Journal of Immunology, 2008, 180, 4299-4307. | 0.4 | 371 |
| 5 | Impedance analysis of supported lipid bilayer membranes: a scrutiny of different preparation techniques. Biochimica Et Biophysica Acta - Biomembranes, 1996, 1279, 169-180. | 1.4 | 274 |
| 6 | Impedance Analysis and Single-Channel Recordings on Nano-Black Lipid Membranes Based on Porous Alumina. Biophysical Journal, 2004, 86, 955-965. | 0.2 | 236 |
| 7 | Photoswitchable Hydrogen-Bonding in Self-Organized Cylindrical Peptide Systems. Angewandte Chemie - International Edition, 1999, 38, 1598-1601. | 7.2 | 161 |
| 8 | Transport across artificial membranesâ€"an analytical perspective. Analytical and Bioanalytical Chemistry, 2006, 385, 433-451. | 1.9 | 153 |
| 9 | Tumor-Specific Hsp70 Plasma Membrane Localization Is Enabled by the Glycosphingolipid Gb3. PLoS ONE, 2008, 3, e1925. | 1.1 | 141 |
| 10 | Pannexin1 and Pannexin2 Channels Show Quaternary Similarities to Connexons and Different Oligomerization Numbers from Each Other. Journal of Biological Chemistry, 2010, 285, 24420-24431. | 1.6 | 134 |
| 11 | Mechanical Properties of Pore-Spanning Lipid Bilayers Probed by Atomic Force Microscopy. Biophysical Journal, 2006, 91, 217-226. | 0.2 | 116 |
| 12 | Self-Assembled Monolayers of Monofunctionalized Cyclodextrins onto Gold:â€‰ A Mass Spectrometric Characterization and Impedance Analysis of Hostâ^'Guest Interaction. Analytical Chemistry, 1996, 68, 3158-3165. | 3.2 | 115 |
| 13 | Specific Adhesion of Vesicles Monitored by Scanning Force Microscopy and Quartz Crystal Microbalance. Biophysical Journal, 2000, 78, 487-498. | 0.2 | 112 |
| 14 | Fluorescence nanoscopy by polarization modulation and polarization angle narrowing. Nature Methods, 2014, 11, 579-584. | 9.0 | 107 |
| 15 | Visualization of Chemical and Physical Properties of Calcium-Induced Domains in DPPC/DPPS Langmuirâ^'Blodgett Layers. Langmuir, 2001, 17, 2437-2445. | 1.6 | 105 |
| 16 | Crystal structure and functional mechanism of a human antimicrobial membrane channel. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 4586-4591. | 3.3 | 104 |
| 17 | The Quartz Crystal Microbalance as a Novel Means to Study Cell-Substrate Interactions In Situ. Cell Biochemistry and Biophysics, 2001, 34, 121-151. | 0.9 | 100 |
| 18 | Binding of heat shock protein 70 to extracellular phosphatidylserine promotes killing of normoxic and hypoxic tumor cells. FASEB Journal, 2009, 23, 2467-2477. | 0.2 | 95 |

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| 19 | DNA hybridization-enhanced porous silicon corrosion: mechanistic investigations and prospect for optical interferometric biosensing. Tetrahedron, 2004, 60, 11259-11267. | 1.0 | 91 |
| 20 | Channel Activity of a Viral Transmembrane Peptide in Micro-BLMs:Â Vpu1-32from HIV-1. Journal of the American Chemical Society, 2004, 126, 16267-16274. | 6.6 | 91 |
| 21 | Lipid Reorganization Induced by Shiga Toxin Clustering on Planar Membranes. PLoS ONE, 2009, 4, e6238. | 1.1 | 90 |
| 22 | Local Membrane Mechanics of Pore-Spanning Bilayers. Journal of the American Chemical Society, 2009, 131, 7031-7039. | 6.6 | 90 |
| 23 | Channel Activity of OmpF Monitored in Nano-BLMs. Biophysical Journal, 2006, 91, 2163-2171. | 0.2 | 88 |
| 24 | Tailored Synthetic Polyamines for Controlled Biomimetic Silica Formation. Journal of the American Chemical Society, 2010, 132, 1023-1031. | 6.6 | 88 |
| 25 | Pore-Spanning Lipid Bilayers Visualized by Scanning Force Microscopy. Journal of the American Chemical Society, 2000, 122, 8085-8086. | 6.6 | 86 |
| 26 | Impedance analysis of ion transport through gramicidin channels incorporated in solid supported lipid bilayers. Bioelectrochemistry, 1997, 42, 213-220. | 1.0 | 83 |
| 27 | Membrane-Suspended Nanocompartments Based on Ordered Pores in Alumina. ChemPhysChem, 2002, 3, 885-889. | 1.0 | 77 |
| 28 | Photocurrents Generated by Bacteriorhodopsin Adsorbed on Nano-Black Lipid Membranes. Biophysical Journal, 2005, 89, 1046-1054. | 0.2 | 71 |
| 29 | An Animal Virus-Derived Peptide Switches Membrane Morphology:Â Possible Relevance to Nodaviral Transfection Processesâ€. Biochemistry, 1999, 38, 5328-5336. | 1.2 | 70 |
| 30 | Quartz crystal microbalance investigation of the interaction of bacterial toxins with ganglioside containing solid supported membranes. European Biophysics Journal, 1997, 26, 261-270. | 1.2 | 68 |
| 31 | Reversible Photoisomerization of Self-Organized Cylindrical Peptide Assemblies at Airâ^'Water and Solid Interfaces. Langmuir, 1999, 15, 3956-3964. | 1.6 | 67 |
| 32 | Pore-Suspending Lipid Bilayers on Porous Alumina Investigated by Electrical Impedance Spectroscopy. Journal of Physical Chemistry B, 2003, 107, 11245-11254. | 1.2 | 67 |
| 33 | Kinetics and Thermodynamics of Annexin A1 Binding to Solid-Supported Membranes:Â A QCM Studyâ€. Biochemistry, 2002, 41, 10087-10094. | 1.2 | 66 |
| 34 | Valinomycin-mediated transport of alkali cations through solid supported membranes. Bioelectrochemistry, 1998, 45, 17-26. | 1.0 | 64 |
| 35 | Benefits and Limitations of Porous Substrates as Biosensors for Protein Adsorption. Analytical Chemistry, 2011, 83, 5624-5630. | 3.2 | 64 |
| 36 | Impedance and shear wave resonance analysis of ligandâ€“receptor interactions at functionalized surfaces and of cell monolayers. Biosensors and Bioelectronics, 1997, 12, 787-808. | 5.3 | 62 |

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| 37 | A highly membrane-active peptide in Flock House virus: implications for the mechanism of nodavirus infection. Chemistry and Biology, 1999, 6, 473-481. | 6.2 | 60 |
| 38 | Phosphatidylserine Membrane Domain Clustering Induced by Annexin A2/S100A10 Heterotetramerâ€. Biochemistry, 2005, 44, 15296-15303. | 1.2 | 60 |
| 39 | Activation of F-Actin Binding Capacity of Ezrin: Synergism of PIP2 Interaction and Phosphorylation. Biophysical Journal, 2011, 100, 1708-1717. | 0.2 | 60 |
| 40 | Combined Electrochemistry and Surfaceâ€Enhanced Infrared Absorption Spectroscopy of Gramicidin A Incorporated into Tethered Bilayer Lipid Membranes. Angewandte Chemie - International Edition, 2012, 51, 8114-8117. | 7.2 | 60 |
| 41 | Imaging and Patterning of Pore-Suspending Membranes with Scanning Ion Conductance Microscopy. Langmuir, 2009, 25, 3022-3028. | 1.6 | 57 |
| 42 | Specific binding of peanut agglutinin to G M1 -doped solid supported lipid bilayers investigated by shear wave resonator measurements. European Biophysics Journal, 1996, 25, 105-113. | 1.2 | 55 |
| 43 | Electrically insulating pore-suspending membranes on highly ordered porous alumina obtained from vesicle spreading. Soft Matter, 2008, 4, 250-253. | 1.2 | 55 |
| 44 | Silica precipitation with synthetic silaffin peptides. Organic and Biomolecular Chemistry, 2011, 9, 5482. | 1.5 | 55 |
| 45 | Cooperative Adsorption of Ezrin on PIP2-Containing Membranesâ€. Biochemistry, 2006, 45, 13025-13034. | 1.2 | 54 |
| 46 | Micro-BLMs on Highly Ordered Porous Silicon Substrates:â€‰ Rupture Process and Lateral Mobility. Langmuir, 2007, 23, 9134-9139. | 1.6 | 51 |
| 47 | Fluorinated Interfaces Drive Self-Association of Transmembrane Îˆ Helices in Lipid Bilayers. Angewandte Chemie - International Edition, 2006, 45, 2588-2591. | 7.2 | 49 |
| 48 | Preparation of Solvent-Free, Pore-Spanning Lipid Bilayers: Modeling the Low Tension of Plasma Membranes. Langmuir, 2011, 27, 7672-7680. | 1.6 | 49 |
| 49 | Interaction of melittin with solid supported membranes. Physical Chemistry Chemical Physics, 2000, 2, 4580-4585. | 1.3 | 48 |
| 50 | Influence of Gb3 glycosphingolipids differing in their fatty acid chain on the phase behaviour of solid supported membranes: chemical syntheses and impact of Shiga toxin binding. Chemical Science, 2014, 5, 3104. | 3.7 | 48 |
| 51 | Adhesion Kinetics of Functionalized Vesicles and Mammalian Cells:Â A Comparative Studyâ€. Langmuir, 2003, 19, 1816-1823. | 1.6 | 47 |
| 52 | A DNA-Inspired Synthetic Ion Channel Based on Gâ€“C Base Pairing. Journal of the American Chemical Society, 2015, 137, 34-37. | 6.6 | 45 |
| 53 | Synthetic Lugdunin Analogues Reveal Essential Structural Motifs for Antimicrobial Action and Proton Translocation Capability. Angewandte Chemie - International Edition, 2019, 58, 9234-9238. | 7.2 | 44 |
| 54 | Insights into the molecular mechanism of amyloid filament formation: Segmental folding of Îˆ-synuclein on lipid membranes. Science Advances, 2021, 7, . | 4.7 | 43 |

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| 55 | Quantification of the Interaction between Charged Guest Molecules and Chemisorbed Monothiolated Î²-Cyclodextrins. Analytical Chemistry, 1999, 71, 2528-2533. | 3.2 | 41 |
| 56 | Impedance and QCM analysis of the protein resistance of self-assembled PEGylated alkanethiol layers on gold. Biomaterials, 2005, 26, 4237-4243. | 5.7 | 41 |
| 57 | Solid Supported Membranes Doped with PIP<sub>2</sub>: Influence of Ionic Strength and pH on Bilayer Formation and Membrane Organization. Langmuir, 2013, 29, 14204-14213. | 1.6 | 41 |
| 58 | Phosphatidylinositol 4,5-Bisphosphate Alters the Number of Attachment Sites between Ezrin and Actin Filaments. Journal of Biological Chemistry, 2014, 289, 9833-9843. | 1.6 | 41 |
| 59 | Resolving single membrane fusion events on planar pore-spanning membranes. Scientific Reports, 2015, 5, 12006. | 1.6 | 39 |
| 60 | Membrane Partitioning of the Cleavage Peptide in Flock House Virus. Biophysical Journal, 2000, 78, 839-845. | 0.2 | 38 |
| 61 | Scanning Force Microscopy of Artificial Membranes. ChemBioChem, 2001, 2, 798. | 1.3 | 38 |
| 62 | Phase Transition of Individually Addressable Microstructured Membranes Visualized by Imaging Ellipsometry. Journal of Physical Chemistry B, 2007, 111, 13979-13986. | 1.2 | 38 |
| 63 | Voltage-dependent structural changes of the membrane-bound anion channel hVDAC1 probed by SEIRA and electrochemical impedance spectroscopy. Physical Chemistry Chemical Physics, 2014, 16, 9546-9555. | 1.3 | 38 |
| 64 | Adhesion of liposomes: a quartz crystal microbalance study. Measurement Science and Technology, 2003, 14, 1865-1875. | 1.4 | 37 |
| 65 | Actin Binding of Ezrin Is Activated by Specific Recognition of PIP<sub>2</sub>-Functionalized Lipid Bilayers. Biochemistry, 2008, 47, 3762-3769. | 1.2 | 37 |
| 66 | Separating Attoliter-Sized Compartments Using Fluid Pore-Spanning Lipid Bilayers. ACS Nano, 2011, 5, 6935-6944. | 7.3 | 36 |
| 67 | Biomimetic functionalization of porous substrates: towards model systems for cellular membranes. Journal of Materials Chemistry, 2012, 22, 19348. | 6.7 | 34 |
| 68 | Reconstituting the formation of hierarchically porous silica patterns using diatom biomolecules. Journal of Structural Biology, 2018, 204, 64-74. | 1.3 | 34 |
| 69 | Monofunctionalized Î²-cyclodextrins as sensor elements for the detection of small molecules. Sensors and Actuators B: Chemical, 2000, 70, 243-253. | 4.0 | 33 |
| 70 | Membrane Composition Affects the Reversibility of Annexin A2t Binding to Solid Supported Membranes:Â A QCM Studyâ€. Biochemistry, 2003, 42, 3131-3141. | 1.2 | 33 |
| 71 | The Molecular Arrangement of Membrane-Bound Annexin A2-S100A10 Tetramer as Revealed by Scanning Force Microscopy. ChemBioChem, 2004, 5, 1003-1006. | 1.3 | 33 |
| 72 | Mechanics of lipid bilayers: What do we learn from pore-spanning membranes?. Biochimica Et Biophysica Acta - Molecular Cell Research, 2015, 1853, 2977-2983. | 1.9 | 33 |

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| 73 | Impedance analysis of gramicidin D in pore-suspending membranes. Soft Matter, 2009, 5, 3347. | 1.2 | 32 |
| 74 | Idealizing Ion Channel Recordings by a Jump Segmentation Multiresolution Filter. IEEE Transactions on Nanobioscience, 2013, 12, 376-386. | 2.2 | 32 |
| 75 | Size and mobility of lipid domains tuned by geometrical constraints. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E6064-E6071. | 3.3 | 32 |
| 76 | Visualization of Annexin I Binding to Calcium-Induced Phosphatidylserine Domains. ChemBioChem, 2001, 2, 587-590. | 1.3 | 30 |
| 77 | Epsin N-terminal Homology Domain (ENTH) Activity as a Function of Membrane Tension. Journal of Biological Chemistry, 2016, 291, 19953-19961. | 1.6 | 29 |
| 78 | 2-Hydroxy Fatty Acid Enantiomers of Gb 3 Impact Shiga Toxin Binding and Membrane Organization. Biophysical Journal, 2015, 108, 2775-2778. | 0.2 | 28 |
| 79 | Voltage Dependence of Conformational Dynamics and Subconducting States of VDAC-1. Biophysical Journal, 2016, 111, 1223-1234. | 0.2 | 28 |
| 80 | Structure, gating and interactions of the voltage-dependent anion channel. European Biophysics Journal, 2021, 50, 159-172. | 1.2 | 28 |
| 81 | Orthogonal Functionalization of Nanoporous Substrates: Control of 3D Surface Functionality. ACS Applied Materials & Interfaces, 2011, 3, 1068-1076. | 4.0 | 26 |
| 82 | Proton translocation across bacteriorhodopsin containing solid supported lipid bilayers. Chemistry and Physics of Lipids, 1997, 89, 141-152. | 1.5 | 25 |
| 83 | Elasticity Mapping of Poreâ€Suspending Native Cell Membranes. Small, 2009, 5, 832-838. | 5.2 | 25 |
| 84 | Creating and Modulating Microdomains in Poreâ€Spanning Membranes. ChemPhysChem, 2012, 13, 108-114. | 1.0 | 25 |
| 85 | Mode of Ezrin-Membrane Interaction as a Function of PIP 2 Binding and Pseudophosphorylation. Biophysical Journal, 2016, 110, 2710-2719. | 0.2 | 25 |
| 86 | SNARE-Mediated Single-Vesicle Fusion Events with Supported and Freestanding Lipid Membranes. Biophysical Journal, 2017, 112, 2348-2356. | 0.2 | 25 |
| 87 | Formation of irreversibly bound annexin A1 protein domains on POPC/POPS solid supported membranes. Biochimica Et Biophysica Acta - Biomembranes, 2008, 1778, 1601-1610. | 1.4 | 24 |
| 88 | The M34A mutant of Connexin26 reveals active conductance states in pore-suspending membranes. Journal of Structural Biology, 2009, 168, 168-176. | 1.3 | 24 |
| 89 | Triazoleâ€Tailored Guanosine Dinucleosides as Biomimetic Ion Channels to Modulate Transmembrane Potential. Chemistry - A European Journal, 2014, 20, 3023-3028. | 1.7 | 24 |
| 90 | Measuring Cell Adhesion on RGD-Modified, Self-Assembled PEG Monolayers Using the Quartz Crystal Microbalance Technique. Macromolecular Bioscience, 2006, 6, 827-838. | 2.1 | 22 |

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| 91 | Synthesis of Gb 3 Glycosphingolipids with Labeled Head Groups: Distribution in Phaseâ€Separated Giant Unilamellar Vesicles. Angewandte Chemie - International Edition, 2019, 58, 17805-17813. | 7.2 | 22 |
| 92 | High-Speed Microscopy of Diffusion in Pore-Spanning Lipid Membranes. Nano Letters, 2018, 18, 5262-5271. | 4.5 | 21 |
| 93 | Specificity of Collybistin-Phosphoinositide Interactions. Journal of Biological Chemistry, 2016, 291, 244-254. | 1.6 | 19 |
| 94 | Partially Reversible Adsorption of Annexin A1 on POPC/POPS Bilayers Investigated by QCM Measurements, SFM, and DMC Simulations. ChemBioChem, 2006, 7, 106-115. | 1.3 | 18 |
| 95 | Rheology of Membrane-Attached Minimal Actin Cortices. Journal of Physical Chemistry B, 2018, 122, 4537-4545. | 1.2 | 18 |
| 96 | Shiga toxin binding alters lipid packing and the domain structure of Gb<sub>3</sub>-containing membranes: a solid-state NMR study. Physical Chemistry Chemical Physics, 2019, 21, 15630-15638. | 1.3 | 18 |
| 97 | Differential recognition of lipid domains by two Gb3-binding lectins. Scientific Reports, 2020, 10, 9752. | 1.6 | 18 |
| 98 | Green Fluorescent Protein Changes the Conductance of Connexin 43 (Cx43) Hemichannels Reconstituted in Planar Lipid Bilayers. Journal of Biological Chemistry, 2012, 287, 2877-2886. | 1.6 | 17 |
| 99 | Bis-triazolyl diguanosine derivatives as synthetic transmembrane ion channels. Nature Protocols, 2016, 11, 1039-1056. | 5.5 | 16 |
| 100 | Evidence for multilayer formation of melittin on solid-supported phospholipid membranes by shear-wave resonator measurements. Chemistry and Physics of Lipids, 1998, 95, 95-104. | 1.5 | 15 |
| 101 | Membrane Activity of an Anion Channel from Clavibacter michiganense ssp. nebraskense. Langmuir, 2001, 17, 2251-2257. | 1.6 | 15 |
| 102 | Scrutiny of Annexin A1 Mediated Membraneâ^'Membrane Interaction by Means of a Thickness Shear Mode Resonator and Computer Simulationsâ€. Langmuir, 2004, 20, 7246-7253. | 1.6 | 15 |
| 103 | Multicomponent membranes on solid substrates: Interfaces for protein binding. Current Opinion in Colloid and Interface Science, 2010, 15, 479-488. | 3.4 | 15 |
| 104 | Quantifying the interaction of the C-terminal regions of polycystin-2 and polycystin-1 attached to a lipid bilayer by means of QCM. Biophysical Chemistry, 2010, 150, 47-53. | 1.5 | 15 |
| 105 | Phospholipids as an alternative to direct covalent coupling: Surface functionalization of nanoporous alumina for protein recognition and purification. Journal of Colloid and Interface Science, 2012, 366, 57-63. | 5.0 | 15 |
| 106 | Label-Free Detection of Proteinâ€“Ligand Interactions by the Quartz Crystal Microbalance. , 2005, 305, 047-064. | | 14 |
| 107 | Elasticity mapping of apical cell membranes. Soft Matter, 2009, 5, 3262. | 1.2 | 14 |
| 108 | Macromolecular shape and interactions in layer-by-layer assemblies within cylindrical nanopores. Beilstein Journal of Nanotechnology, 2012, 3, 475-484. | 1.5 | 14 |

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| 109 | Cell Adhesion to Ordered Pores: Consequences for Cellular Elasticity. Journal of Adhesion Science and Technology, 2010, 24, 2287-2300. | 1.4 | 13 |
| 110 | Viscoelasticity of pore-spanning polymer membranes derived from giant polymersomes. Soft Matter, 2010, 6, 2508. | 1.2 | 13 |
| 111 | In situ generation of electrochemical gradients across pore-spanning membranes. RSC Advances, 2013, 3, 15752. | 1.7 | 13 |
| 112 | Driving a planar model system into the 3<sup>rd</sup>dimension: generation and control of curved pore-spanning membrane arrays. Soft Matter, 2014, 10, 6228-6236. | 1.2 | 13 |
| 113 | Modulating the Lateral Tension of Solvent-Free Pore-Spanning Membranes. Langmuir, 2014, 30, 8186-8192. | 1.6 | 13 |
| 114 | 3D-Membrane Stacks on Supported Membranes Composed of Diatom Lipids Induced by Long-Chain Polyamines. Langmuir, 2016, 32, 10144-10152. | 1.6 | 13 |
| 115 | Monitoring ATPase induced pH changes in single proteoliposomes with the lipid-coupled fluorophore Oregon Green 488. Analyst, The, 2017, 142, 2670-2677. | 1.7 | 13 |
| 116 | Viscoelasticity of Native and Artificial Actin Cortices Assessed by Nanoindentation Experiments. Nano Letters, 2020, 20, 6329-6335. | 4.5 | 13 |
| 117 | Fusion Pore Formation Observed during SNARE-Mediated Vesicle Fusion with Pore-Spanning Membranes. Biophysical Journal, 2020, 119, 151-161. | 0.2 | 13 |
| 118 | Channel activity of a phytotoxin of Clavibacter michiganense ssp. nebraskense in tethered membranes. European Biophysics Journal, 2001, 30, 421-429. | 1.2 | 12 |
| 119 | Energy Landscapes of Ligand-Receptor Couples Probed by Dynamic Force Spectroscopy. ChemPhysChem, 2001, 2, 577-579. | 1.0 | 12 |
| 120 | Impedance analysis of valinomycin activity in nano-BLMs. Chemistry and Physics of Lipids, 2009, 160, 109-113. | 1.5 | 12 |
| 121 | Molecular Recognition at the Membraneâ^'Water Interface: Controlling Integral Peptide Helices by Off-Membrane Nucleobase Pairing. Journal of the American Chemical Society, 2010, 132, 8020-8028. | 6.6 | 12 |
| 122 | A membrane fusion assay based on pore-spanning lipid bilayers. Soft Matter, 2011, 7, 1644. | 1.2 | 12 |
| 123 | Gb<sub>3</sub> Glycosphingolipids with Fluorescent Oligoene Fatty Acids: Synthesis and Phase Behavior in Model Membranes. ChemBioChem, 2017, 18, 2171-2178. | 1.3 | 12 |
| 124 | Fully Automatic Multiresolution Idealization for Filtered Ion Channel Recordings: Flickering Event Detection. IEEE Transactions on Nanobioscience, 2018, 17, 300-320. | 2.2 | 12 |
| 125 | High-resolution experimental and computational electrophysiology reveals weak Î²-lactam binding events in the porin PorB. Scientific Reports, 2019, 9, 1264. | 1.6 | 12 |
| 126 | ENTH domain-dependent membrane remodelling. Soft Matter, 2021, 17, 233-240. | 1.2 | 12 |

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| 127 | Membrane-interacting properties of the functionalised fatty acid moiety of muraymycin antibiotics. MedChemComm, 2015, 6, 879-886. | 3.5 | 11 |
| 128 | Phase separation in pore-spanning membranes induced by differences in surface adhesion. Physical Chemistry Chemical Physics, 2020, 22, 9308-9315. | 1.3 | 11 |
| 129 | Quantification of the Raf-C1 Interaction With Solid-Supported Bilayers. ChemBioChem, 2002, 3, 190-197. | 1.3 | 10 |
| 130 | Biochemical Applications of Solid Supported Membranes on Gold Surfaces: Quartz Crystal Microbalance and Impedance Analysis. Membrane Science and Technology, 2003, 7, 991-1016. | 0.5 | 10 |
| 131 | Influence of Î±-Hydroxylation of Glycolipids on Domain Formation in Lipid Monolayers. Langmuir, 2006, 22, 7454-7457. | 1.6 | 10 |
| 132 | Specific Adsorption of AnnexinÂA1 on Solid Supported Membranes: AÂModel Study. , 2006, , 281-302. | | 10 |
| 133 | Silica Precipitation by Synthetic Minicollagens. Biomacromolecules, 2013, 14, 683-687. | 2.6 | 10 |
| 134 | Macroporous silicon chips for laterally resolved, multi-parametric analysis of epithelial barrier function. Lab on A Chip, 2012, 12, 2329. | 3.1 | 9 |
| 135 | Î²-Glutamine-mediated self-association of transmembrane Î²-peptides within lipid bilayers. Chemical Science, 2016, 7, 5900-5907. | 3.7 | 9 |
| 136 | Reply to "Polarization modulation adds little additional information to super-resolution fluorescence microscopy". Nature Methods, 2016, 13, 8-9. | 9.0 | 9 |
| 137 | SNARE-Mediated Fusion of Single Chromaffin Granules with Pore-Spanning Membranes. Biophysical Journal, 2019, 116, 308-318. | 0.2 | 9 |
| 138 | An antibiotic-resistance conferring mutation in a neisserial porin: Structure, ion flux, and ampicillin binding. Biochimica Et Biophysica Acta - Biomembranes, 2021, 1863, 183601. | 1.4 | 9 |
| 139 | Modulation of the conductance of a 2,2â€²-bipyridine-functionalized peptidic ion channel by Ni2+. European Biophysics Journal, 2008, 37, 1065-1071. | 1.2 | 8 |
| 140 | Chemically synthesized Gb3 glycosphingolipids: tools to access their function in lipid membranes. European Biophysics Journal, 2021, 50, 109-126. | 1.2 | 8 |
| 141 | Pore-Spanning Plasma Membranes Derived from Giant Plasma Membrane Vesicles. ACS Applied Materials & Interfaces, 2021, 13, 25805-25812. | 4.0 | 8 |
| 142 | Controlling Association of Vesicle Embedded Peptides by Alteration of the Physical State of the Lipid Matrixâ€. Biochemistry, 2005, 44, 5188-5195. | 1.2 | 7 |
| 143 | HIV-1 Nef Perturbs Artificial Membranes: Investigation of the Contribution of the Myristoyl Anchor. Biophysical Journal, 2009, 96, 3242-3250. | 0.2 | 7 |
| 144 | Formation of Silica Precipitates on Membrane Surfaces in Two and Three Dimensions. Langmuir, 2010, 26, 13422-13428. | 1.6 | 7 |

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| 145 | Arrangement of Annexin A2 tetramer and its impact on the structure and diffusivity of supported lipid bilayers. Soft Matter, 2010, 6, 4084. | 1.2 | 7 |
| 146 | Combining Reflectometry and Fluorescence Microscopy: An Assay for the Investigation of Leakage Processes across Lipid Membranes. Analytical Chemistry, 2014, 86, 1366-1371. | 3.2 | 7 |
| 147 | Binding assay for low molecular weight analytes based on reflectometry of absorbing molecules in porous substrates. Analyst, The, 2014, 139, 1987-1992. | 1.7 | 7 |
| 148 | Permeabilization Assay for Antimicrobial Peptides Based on Pore-Spanning Lipid Membranes on Nanoporous Alumina. Langmuir, 2014, 30, 4767-4774. | 1.6 | 7 |
| 149 | Microporous device for local electric recordings on model lipid bilayers. Journal Physics D: Applied Physics, 2015, 48, 025401. | 1.3 | 7 |
| 150 | Continuous Pore-Spanning Lipid Bilayers on Silicon Oxide-Coated Porous Substrates. Langmuir, 2017, 33, 14175-14183. | 1.6 | 7 |
| 151 | Selfâ€Assembly of a Guanosine Derivative To Form Nanostructures and Transmembrane Channels. Chemistry - A European Journal, 2018, 24, 4002-4005. | 1.7 | 7 |
| 152 | Influence of cross-linkers on ezrin-bound minimal actin cortices. Progress in Biophysics and Molecular Biology, 2019, 144, 91-101. | 1.4 | 7 |
| 153 | Cooperativity of membrane-protein and proteinâ€“protein interactions control membrane remodeling by epsin 1 and affects clathrin-mediated endocytosis. Cellular and Molecular Life Sciences, 2021, 78, 2355-2370. | 2.4 | 7 |
| 154 | Reconstitution of SNARE proteins into solid-supported lipid bilayer stacks and X-ray structure analysis. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 566-578. | 1.4 | 7 |
| 155 | Forces, Kinetics, and Fusion Efficiency Altered by the Full-Length Synaptotagmin-1 -PI(4,5)P<sub>2</sub> Interaction in Constrained Geometries. Nano Letters, 2022, 22, 1449-1455. | 4.5 | 7 |
| 156 | Mechanistic insights into the translocation of full length HIV-1 Tat across lipid membranes. Biochimica Et Biophysica Acta - Biomembranes, 2011, 1808, 2685-2693. | 1.4 | 6 |
| 157 | Phosphorylation of C-terminal polycystin-2 influences the interaction with PIGEA14: A QCM study based on solid supported membranes. Biochemical and Biophysical Research Communications, 2013, 437, 532-537. | 1.0 | 6 |
| 158 | Neuroligin-2 dependent conformational activation of collybistin reconstituted in supported hybrid membranes. Journal of Biological Chemistry, 2020, 295, 18604-18613. | 1.6 | 6 |
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