# M Teresa Montero Barrientos

List of Publications by Year
in descending order



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|---|---|---|---|
| 45 papers | 902 citations | 361413<br>20 h-index | 501196<br>28 g-index |
| 45 all docs | 45 docs citations | 45 times ranked | 981 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Thermodynamic and structural study of the main phospholipid components comprising the mitochondrial inner membrane. Biochimica Et Biophysica Acta - Biomembranes, 2006, 1758, 213-221. | 2.6 | 57 |
| 2 | Interaction of 6-Fluoroquinolones with Dipalmitoylphosphatidylcholine Monolayers and Liposomes. Langmuir, 2002, 18, 9177-9182. | 3.5 | 49 |
| 3 | Determination of the partition coefficients of a homologous series of ciprofloxacin: influence of the N-4 piperazinyl alkylation on the antimicrobial activity. International Journal of Pharmaceutics, 2001, 220, 53-62. | 5.2 | 47 |
| 4 | Atomic force microscopy and force spectroscopy study of Langmuirâ€“Blodgett films formed by heteroacid phospholipids of biological interest. Biochimica Et Biophysica Acta - Biomembranes, 2007, 1768, 1190-1198. | 2.6 | 38 |
| 5 | Force Spectroscopy Study of Langmuirâˆ'Blodgett Asymmetric Bilayers of Phosphatidylethanolamine and Phosphatidylglycerol. Journal of Physical Chemistry B, 2010, 114, 3543-3549. | 2.6 | 33 |
| 6 | Calcium-Induced Formation of Subdomains in Phosphatidylethanolamineâˆ'Phosphatidylglycerol Bilayers: A Combined DSC, 31P NMR, and AFM Study. Journal of Physical Chemistry B, 2009, 113, 4648-4655. | 2.6 | 31 |
| 7 | Effects of Ciprofloxacin onEscherichiacoliLipid Bilayers:Â An Atomic Force Microscopy Study. Langmuir, 2003, 19, 6922-6927. | 3.5 | 29 |
| 8 | Does ciprofloxacin interact with neutral bilayers? An aspect related to its antimicrobial activity. International Journal of Pharmaceutics, 2003, 252, 149-157. | 5.2 | 28 |
| 9 | Surface planar bilayers of phospholipids used in protein membrane reconstitution: An atomic force microscopy study. Colloids and Surfaces B: Biointerfaces, 2006, 47, 102-106. | 5.0 | 28 |
| 10 | Atomic force microscopy characterization of supported planar bilayers that mimic the mitochondrial inner membrane. Journal of Molecular Recognition, 2007, 20, 546-553. | 2.1 | 28 |
| 11 | Influence of the cell wall on ciprofloxacin susceptibility in selected wild-type Gram-negative and Gram-positive bacteria. International Journal of Antimicrobial Agents, 2004, 23, 627-630. | 2.5 | 26 |
| 12 | Surface thermodynamics study of monolayers formed with heteroacid phospholipids of biological interest. Colloids and Surfaces B: Biointerfaces, 2005, 41, 233-238. | 5.0 | 26 |
| 13 | Acyl Chain Differences in Phosphatidylethanolamine Determine Domain Formation and LacY Distribution in Biomimetic Model Membranes. Journal of Physical Chemistry B, 2011, 115, 12778-12784. | 2.6 | 26 |
| 14 | Location and Nature of the Surface Membrane Binding Site of Ciprofloxacin:Â A Fluorescence Study. Langmuir, 2001, 17, 1009-1014. | 3.5 | 25 |
| 15 | Fluoroquinoloneâˆ'Biomembrane Interaction at the DPPC/PG Lipidâˆ'Bilayer Interface. Langmuir, 2002, 18, 3288-3292. | 3.5 | 25 |
| 16 | Thermal response of domains in cardiolipin content bilayers. Ultramicroscopy, 2007, 107, 943-947. | 1.9 | 24 |
| 17 | Effects of Lactose Permease on the Phospholipid Environment in Which It Is Reconstituted:Â A Fluorescence and Atomic Force Microscopy Study. Langmuir, 2005, 21, 4642-4647. | 3.5 | 23 |
| 18 | Unveiling a Complex Phase Transition in Monolayers of a Phospholipid from the Annular Region of Transmembrane Proteins. Journal of Physical Chemistry B, 2007, 111, 10946-10951. | 2.6 | 22 |

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|---|---|---|---|
| 19 | Evidence of phosphatidylethanolamine and phosphatidylglycerol presence at the annular region of lactose permease of Escherichia coli. Biochimica Et Biophysica Acta - Biomembranes, 2010, 1798, 291-296. | 2.6 | 22 |
| 20 | Specific Adsorption of Cytochromecon Cardiolipinâˆ’Glycerophospholipid Monolayers and Bilayers. Langmuir, 2007, 23, 5651-5656. | 3.5 | 21 |
| 21 | Supported planar bilayers from hexagonal phases. Biochimica Et Biophysica Acta - Biomembranes, 2007, 1768, 100-106. | 2.6 | 20 |
| 22 | Preferential insertion of lactose permease in phospholipid domains: AFM observations. Biochimica Et Biophysica Acta - Biomembranes, 2010, 1798, 1014-1019. | 2.6 | 20 |
| 23 | Miscibility Behavior and Nanostructure of Monolayers of the Main Phospholipids of Escherichia coli Inner Membrane. Langmuir, 2012, 28, 701-706. | 3.5 | 20 |
| 24 | Enhanced topical delivery of hyaluronic acid encapsulated in liposomes: A surface-dependent phenomenon. Colloids and Surfaces B: Biointerfaces, 2015, 134, 31-39. | 5.0 | 19 |
| 25 | Interfacial Membrane Effects of Fluoroquinolones as Revealed by a Combination of Fluorescence Binding Experiments and Atomic Force Microscopy Observations. Langmuir, 2006, 22, 7574-7578. | 3.5 | 18 |
| 26 | Effects of lactose permease of Escherichia coli on the anisotropy and electrostatic surface potential of liposomes. Biophysical Chemistry, 2006, 119, 101-105. | 2.8 | 18 |
| 27 | Phase Changes in Supported Planar Bilayers of 1-Palmitoyl-2-oleoyl-<i>sn</i>-glycero-3-phosphoethanolamine. Journal of Physical Chemistry B, 2008, 112, 10181-10187. | 2.6 | 17 |
| 28 | Lactose permease lipid selectivity using FÃ¶rster resonance energy transfer. Biochimica Et Biophysica Acta - Biomembranes, 2010, 1798, 1707-1713. | 2.6 | 17 |
| 29 | Improving ex vivo skin permeation of non-steroidal anti-inflammatory drugs: Enhancing extemporaneous transformation of liposomes into planar lipid bilayers. International Journal of Pharmaceutics, 2014, 461, 427-436. | 5.2 | 16 |
| 30 | Preliminary atomic force microscopy study of two-dimensional crystals of lactose permease from Escherichia coli. Biophysical Chemistry, 2006, 119, 78-83. | 2.8 | 15 |
| 31 | Effect of cholesterol on monolayer structure of different acyl chained phospholipids. Colloids and Surfaces B: Biointerfaces, 2019, 174, 374-383. | 5.0 | 14 |
| 32 | Atomic force microscopy study of Escherichia coli lactose permease proteolipid sheets. Biosensors and Bioelectronics, 2005, 20, 1843-1846. | 10.1 | 13 |
| 33 | Effect of lactose permease presence on the structure and nanomechanics of two-component supported lipid bilayers. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 842-852. | 2.6 | 13 |
| 34 | Membrane Proteinâ€“Lipid Selectivity: Enhancing Sensitivity for Modeling FRET Data. Journal of Physical Chemistry B, 2012, 116, 2438-2445. | 2.6 | 12 |
| 35 | Preliminary studies of the 2D crystallization of Omp1 of Serratia marcescens: observation by atomic force microscopy in native membranes environment and reconstituted in proteolipid sheets. Biophysical Chemistry, 2004, 111, 1-7. | 2.8 | 8 |
| 36 | Surface thermodynamic properties of monolayers versus reconstitution of a membrane protein in solid-supported bilayers. Colloids and Surfaces B: Biointerfaces, 2005, 44, 93-98. | 5.0 | 7 |

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|---|---|---|---|
| 37 | Phosphatidylethanolamineâ€“Lactose Permease Interaction: A Comparative Study Based on FRET. Journal of Physical Chemistry B, 2012, 116, 14023-14028. | 2.6 | 7 |
| 38 | Phospholipidâ€“Lactose Permease Interaction As Reported by a Head-Labeled Pyrene Phosphatidylethanolamine: A FRET Study. Journal of Physical Chemistry B, 2013, 117, 6741-6748. | 2.6 | 6 |
| 39 | Combined force spectroscopy, AFM and calorimetric studies to reveal the nanostructural organization of biomimetic membranes. Chemistry and Physics of Lipids, 2014, 183, 208-217. | 3.2 | 6 |
| 40 | Monitoring Pyrene Excimers in Lactose Permease Liposomes: Revealing the Presence of Phosphatidylglycerol in Proximity to an Integral Membrane Protein. Journal of Fluorescence, 2007, 17, 649-654. | 2.5 | 5 |
| 41 | Unspecific membrane protein-lipid recognition: combination of AFM imaging, force spectroscopy, DSC and FRET measurements. Journal of Molecular Recognition, 2015, 28, 679-686. | 2.1 | 5 |
| 42 | Planar lipid bilayers formed from thermodynamically-optimized liposomes as new featured carriers for drug delivery systems through human skin. International Journal of Pharmaceutics, 2019, 563, 1-8. | 5.2 | 5 |
| 43 | Characterization of monolayers and liposomes that mimic lipid composition of HeLa cells. Colloids and Surfaces B: Biointerfaces, 2020, 196, 111288. | 5.0 | 5 |
| 44 | Engineering and development of model lipid membranes mimicking the HeLa cell membrane. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 630, 127663. | 4.7 | 5 |
| 45 | Mapping phase diagrams of supported lipid bilayers by atomic force microscopy. Microscopy Research and Technique, 2017, 80, 4-10. | 2.2 | 3 |