

Ã'scar DomÃ"nech

List of Publications by Year in descending order

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63
papers

1,554
citations

279798

23
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330143

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63
docs citations

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times ranked

2274
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct Observation of <i>Staphylococcus aureus</i> Cell Wall Digestion by Lysostaphin. <i>Journal of Bacteriology</i> , 2008, 190, 7904-7909.	2.2	168
2	Effect of nonylphenol on male reproduction: Analysis of rat epididymal biochemical markers and antioxidant defense enzymes. <i>Toxicology and Applied Pharmacology</i> , 2012, 261, 134-141.	2.8	81
3	Interactions of oritavancin, a new lipoglycopeptide derived from vancomycin, with phospholipid bilayers: Effect on membrane permeability and nanoscale lipid membrane organization. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009, 1788, 1832-1840.	2.6	77
4	Cytotoxicity and mitochondrial dysfunction of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) in isolated rat hepatocytes. <i>Toxicology Letters</i> , 2009, 191, 79-87.	0.8	70
5	Aroclor 1254 impairs spermatogenesis and induces oxidative stress in rat testicular mitochondria. <i>Food and Chemical Toxicology</i> , 2009, 47, 1733-1738.	3.6	68
6	Thermodynamic and structural study of the main phospholipid components comprising the mitochondrial inner membrane. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2006, 1758, 213-221.	2.6	57
7	Amphotericin B releasing topical nanoemulsion for the treatment of candidiasis and aspergillosis. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017, 13, 2303-2312.	3.3	56
8	Determination by Fluorimetric Titration of the Ionization Constants of Ciprofloxacin in Solution and in the Presence of Liposomes. <i>Photochemistry and Photobiology</i> , 2001, 73, 14.	2.5	52
9	Interaction of 6-Fluoroquinolones with Dipalmitoylphosphatidylcholine Monolayers and Liposomes. <i>Langmuir</i> , 2002, 18, 9177-9182.	3.5	49
10	Determination of the partition coefficients of a homologous series of ciprofloxacin: influence of the N-4 piperazinyl alkylation on the antimicrobial activity. <i>International Journal of Pharmaceutics</i> , 2001, 220, 53-62.	5.2	47
11	Aroclor 1254 induced cytotoxicity and mitochondrial dysfunction in isolated rat hepatocytes. <i>Toxicology</i> , 2009, 262, 175-183.	4.2	47
12	Domain Formation and Permeabilization Induced by the Saponin α -Hederin and Its Aglycone Hederagenin in a Cholesterol-Containing Bilayer. <i>Langmuir</i> , 2014, 30, 4556-4569.	3.5	42
13	Atomic force microscopy and force spectroscopy study of Langmuir-Blodgett films formed by heteroacid phospholipids of biological interest. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2007, 1768, 1190-1198.	2.6	38
14	Effects of Ciprofloxacin on <i>Escherichia coli</i> Lipid Bilayers: An Atomic Force Microscopy Study. <i>Langmuir</i> , 2003, 19, 6922-6927.	3.5	29
15	Surface planar bilayers of phospholipids used in protein membrane reconstitution: An atomic force microscopy study. <i>Colloids and Surfaces B: Biointerfaces</i> , 2006, 47, 102-106.	5.0	28
16	Atomic force microscopy characterization of supported planar bilayers that mimic the mitochondrial inner membrane. <i>Journal of Molecular Recognition</i> , 2007, 20, 546-553.	2.1	28
17	Thermoreversible Gel-Loaded Amphotericin B for the Treatment of Dermal and Vaginal Candidiasis. <i>Pharmaceutics</i> , 2019, 11, 312.	4.5	28
18	Surface thermodynamics study of monolayers formed with heteroacid phospholipids of biological interest. <i>Colloids and Surfaces B: Biointerfaces</i> , 2005, 41, 233-238.	5.0	26

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19	Interactions of oritavancin, a new semi-synthetic lipoglycopeptide, with lipids extracted from <i>Staphylococcus aureus</i> . <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2010, 1798, 1876-1885.	2.6	26
20	Acyl Chain Differences in Phosphatidylethanolamine Determine Domain Formation and LacY Distribution in Biomimetic Model Membranes. <i>Journal of Physical Chemistry B</i> , 2011, 115, 12778-12784.	2.6	26
21	Location and Nature of the Surface Membrane Binding Site of Ciprofloxacin: A Fluorescence Study. <i>Langmuir</i> , 2001, 17, 1009-1014.	3.5	25
22	Fluoroquinolone-Biomembrane Interaction at the DPPC/PG Lipid Bilayer Interface. <i>Langmuir</i> , 2002, 18, 3288-3292.	3.5	25
23	Thermal response of domains in cardiolipin content bilayers. <i>Ultramicroscopy</i> , 2007, 107, 943-947.	1.9	24
24	Efficacy of combinations of colistin with other antimicrobials involves membrane fluidity and efflux machinery. <i>Infection and Drug Resistance</i> , 2019, Volume 12, 2031-2038.	2.7	24
25	Effects of Lactose Permease on the Phospholipid Environment in Which It Is Reconstituted: A Fluorescence and Atomic Force Microscopy Study. <i>Langmuir</i> , 2005, 21, 4642-4647.	3.5	23
26	Unveiling a Complex Phase Transition in Monolayers of a Phospholipid from the Annular Region of Transmembrane Proteins. <i>Journal of Physical Chemistry B</i> , 2007, 111, 10946-10951.	2.6	22
27	Topical Pioglitazone Nanoformulation for the Treatment of Atopic Dermatitis: Design, Characterization and Efficacy in Hairless Mouse Model. <i>Pharmaceutics</i> , 2020, 12, 255.	4.5	22
28	Specific Adsorption of Cytochrome c on Cardiolipin-Glycerophospholipid Monolayers and Bilayers. <i>Langmuir</i> , 2007, 23, 5651-5656.	3.5	21
29	Supported planar bilayers from hexagonal phases. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2007, 1768, 100-106.	2.6	20
30	Miscibility Behavior and Nanostructure of Monolayers of the Main Phospholipids of <i>Escherichia coli</i> Inner Membrane. <i>Langmuir</i> , 2012, 28, 701-706.	3.5	20
31	Enhanced topical delivery of hyaluronic acid encapsulated in liposomes: A surface-dependent phenomenon. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 134, 31-39.	5.0	19
32	Improving ex vivo skin permeation of non-steroidal anti-inflammatory drugs: Enhancing extemporaneous transformation of liposomes into planar lipid bilayers. <i>International Journal of Pharmaceutics</i> , 2014, 461, 427-436.	5.2	16
33	Preliminary atomic force microscopy study of two-dimensional crystals of lactose permease from <i>Escherichia coli</i> . <i>Biophysical Chemistry</i> , 2006, 119, 78-83.	2.8	15
34	Polycationic Macrocyclic Scaffolds as Potential Non-Viral Vectors of DNA: A Multidisciplinary Study. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 14404-14414.	8.0	15
35	A biophysical study of gene nanocarriers formed by anionic/zwitterionic mixed lipids and pillar[5]arene polycationic macrocycles. <i>Journal of Materials Chemistry B</i> , 2017, 5, 3122-3131.	5.8	15
36	Study of the inhibition capacity of an 18-mer peptide domain of GBV-C virus on gp41-FP HIV-1 activity. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2011, 1808, 1567-1573.	2.6	14

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37	Molecular study of quinolone resistance mechanisms and clonal relationship of Salmonella enterica clinical isolates. International Journal of Antimicrobial Agents, 2014, 43, 121-125.	2.5	14
38	Effect of cholesterol on monolayer structure of different acyl chained phospholipids. Colloids and Surfaces B: Biointerfaces, 2019, 174, 374-383.	5.0	14
39	Enhanced polyhydroxyalkanoates accumulation by Halomonas spp. in artificial biofilms of alginate beads. International Microbiology, 2012, 15, 191-9.	2.4	14
40	Atomic force microscopy study of Escherichia coli lactose permease proteolipid sheets. Biosensors and Bioelectronics, 2005, 20, 1843-1846.	10.1	13
41	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
42	Membrane Proteinâ€™Lipid Selectivity: Enhancing Sensitivity for Modeling FRET Data. Journal of Physical Chemistry B, 2012, 116, 2438-2445.	2.6	12
43	Multidisciplinary Approach to the Transfection of Plasmid DNA by a Nonviral Nanocarrier Based on a Geminiâ€™Bolaamphiphilic Hybrid Lipid. ACS Omega, 2018, 3, 208-217.	3.5	12
44	Endogenous Antioxidant Cocktail Loaded Hydrogel for Topical Wound Healing of Burns. Pharmaceutics, 2021, 13, 8.	4.5	10
45	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
46	Biofilm formation on polystyrene in detached vs. planktonic cells of polyhydroxyalkanoate-accumulating Halomonas venusta. International Microbiology, 2014, 17, 205-12.	2.4	8
47	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
48	Phosphatidylethanolamineâ€™Lactose Permease Interaction: A Comparative Study Based on FRET. Journal of Physical Chemistry B, 2012, 116, 14023-14028.	2.6	7
49	Critical Temperature of 1-Palmitoyl-2-oleoyl- <i>sn</i> -glycero-3-phosphoethanolamine Monolayers and Its Possible Biological Relevance. Journal of Physical Chemistry B, 2017, 121, 6882-6889.	2.6	7
50	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
51	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
52	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
53	A study of HIV-1 FP inhibition by GBV-C peptides using lipid nano-assemblies. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 480, 184-190.	4.7	5
54	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

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55	Characterization of monolayers and liposomes that mimic lipid composition of HeLa cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 196, 111288.	5.0	5
56	Engineering and development of model lipid membranes mimicking the HeLa cell membrane. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 630, 127663.	4.7	5
57	Membrane Protein – Lipid Interactions: Physics and Chemistry in the Bilayer. <i>SpringerBriefs in Biochemistry and Molecular Biology</i> , 2016, , .	0.3	4
58	Modification of FP-HIV activity by peptide sequences of GB virus C: A biophysical approach. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014, 1838, 1274-1280.	2.6	3
59	Mapping phase diagrams of supported lipid bilayers by atomic force microscopy. <i>Microscopy Research and Technique</i> , 2017, 80, 4-10.	2.2	3
60	Characterization and lipid phase effect on the interaction of GBV-C E2-derived peptide, P6-2VIR576, with lipid membranes relating it with the HIV-1 FP inhibition. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 554, 187-196.	4.7	3
61	Lateral Distribution of Membrane Components and Transient Lipid-Protein Structures. <i>SpringerBriefs in Biochemistry and Molecular Biology</i> , 2016, , 63-87.	0.3	1
62	Physicochemical Properties of Lipids and Macromolecules in Higher Level Organization. <i>SpringerBriefs in Biochemistry and Molecular Biology</i> , 2016, , 31-61.	0.3	1
63	Dependence of Protein Membrane Mechanisms on Specific Physicochemical Lipid Properties. <i>SpringerBriefs in Biochemistry and Molecular Biology</i> , 2016, , 89-116.	0.3	0