

Fernando M Teran Arce

List of Publications by Year in descending order

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64
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156536

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docs citations

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times ranked

4608
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanomechanical Properties of Artificial Lipid Bilayers Composed of Fluid and Polymerizable Lipids. <i>Langmuir</i> , 2022, 38, 100-111.	1.6	5
2	Shear-Mediated Platelet Activation is Accompanied by Unique Alterations in Platelet Release of Lipids. <i>Cellular and Molecular Bioengineering</i> , 2021, 14, 597-612.	1.0	1
3	Medin Oligomer Membrane Pore Formation: A Potential Mechanism of Vascular Dysfunction. <i>Biophysical Journal</i> , 2020, 118, 2769-2782.	0.2	9
4	The diphenylpyrazole compound anle138b blocks $A\beta$ channels and rescues disease phenotypes in a mouse model for amyloid pathology. <i>EMBO Molecular Medicine</i> , 2018, 10, 32-47.	3.3	63
5	Amyloid β Ion Channels in a Membrane Comprising Brain Total Lipid Extracts. <i>ACS Chemical Neuroscience</i> , 2017, 8, 1348-1357.	1.7	72
6	Nanofibre optic force transducers with sub-piconewton resolution via near-field plasmon-dielectric interactions. <i>Nature Photonics</i> , 2017, 11, 352-355.	15.6	31
7	Gap controlled plasmon-dielectric coupling effects investigated with single nanoparticle-terminated atomic force microscope probes. <i>Nanoscale</i> , 2016, 8, 17102-17107.	2.8	5
8	Carboxylated nanodiamonds inhibit β -irradiation damage of human red blood cells. <i>Nanoscale</i> , 2016, 8, 7189-7196.	2.8	9
9	Computational Methods for Structural and Functional Studies of Alzheimer's Amyloid Ion Channels. <i>Methods in Molecular Biology</i> , 2016, 1345, 251-268.	0.4	7
10	Structure and Permeability of Ion-channels by Integrated AFM and Waveguide TIRF Microscopy. <i>Scientific Reports</i> , 2014, 4, 4424.	1.6	8
11	Atomic Force Microscopy Shows Connexin26 Hemichannel Clustering in Purified Membrane Fragments. <i>Biochemistry</i> , 2014, 53, 7407-7414.	1.2	3
12	Structure-Function Studies of Amyloid Pores in Alzheimer's Disease as a Case Example of Neurodegenerative Diseases. , 2014, , 397-408.		0
13	Activity and Architecture of Pyroglutamate-Modified Amyloid- β ($A\beta$ _{pE3-42}) Pores. <i>Journal of Physical Chemistry B</i> , 2014, 118, 7335-7344.	1.2	35
14	Disordered amyloidogenic peptides may insert into the membrane and assemble into common cyclic structural motifs. <i>Chemical Society Reviews</i> , 2014, 43, 6750-6764.	18.7	80
15	Atomic force microscopy reveals age-dependent changes in nanomechanical properties of the extracellular matrix of native human menisci: implications for joint degeneration and osteoarthritis. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2014, 10, 1777-1785.	1.7	34
16	Role of the Fast Kinetics of Pyroglutamate-Modified Amyloid- β Oligomers in Membrane Binding and Membrane Permeability. <i>Biochemistry</i> , 2014, 53, 4704-4714.	1.2	32
17	Logarithmic Domain Growth in Ternary Mixture Lipid Multilayer Systems. <i>Biophysical Journal</i> , 2014, 106, 96a.	0.2	0
18	Insulated Conducting Cantilevered Nanotips and Two-Chamber Recording System for High Resolution Ion Sensing AFM. <i>Scientific Reports</i> , 2014, 4, 4454.	1.6	6

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19	Modeling Variants of Alzheimer's Ion Channels in the Lipid Bilayer formed by an Aggregation-Intermediate β -Hairpin and E22 β Mutant. <i>Biophysical Journal</i> , 2013, 104, 390a-391a.	0.2	0
20	Effect of β Insertion in DPPC LB Films. <i>Biophysical Journal</i> , 2013, 104, 592a.	0.2	0
21	Heterogeneous elastic response of human lung microvascular endothelial cells to barrier modulating stimuli. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2013, 9, 875-884.	1.7	15
22	Alzheimer's disease: which type of amyloid-preventing drug agents to employ?. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 8868.	1.3	50
23	Mechanisms for the Insertion of Toxic, Fibril-like β -Amyloid Oligomers into the Membrane. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 822-833.	2.3	126
24	Familial Alzheimer's Disease Osaka Mutant (β E22) β -Barrels Suggest an Explanation for the Different β 40/42 Preferred Conformational States Observed by Experiment. <i>Journal of Physical Chemistry B</i> , 2013, 117, 11518-11529.	1.2	29
25	Modeling Alzheimer's Ion Channel Structures in Lipid Bilayers Formed by D- and L-Enantiomers of Beta-Amyloid (1-42) Peptide. <i>Biophysical Journal</i> , 2012, 102, 440a.	0.2	0
26	All-d-Enantiomer of β -Amyloid Peptide Forms Ion Channels in Lipid Bilayers. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 1143-1152.	2.3	38
27	Effects of Point Substitutions on the Structure of Toxic Alzheimer's β -Amyloid Channels: Atomic Force Microscopy and Molecular Dynamics Simulations. <i>Biochemistry</i> , 2012, 51, 3031-3038.	1.2	49
28	Atomic Force Microscopy and MD Simulations Reveal Pore-Like Structures of All-d-Enantiomer of Alzheimer's β -Amyloid Peptide: Relevance to the Ion Channel Mechanism of AD Pathology. <i>Journal of Physical Chemistry B</i> , 2012, 116, 1728-1735.	1.2	121
29	Conducting Atomic Force Microscopy for Simultaneous Imaging of Structure and Ionic Current Through Nanopores. <i>Biophysical Journal</i> , 2012, 102, 586a.	0.2	0
30	Alzheimer's β -Amyloid All-D-Enantiomers and Native All-L-Enantiomers Exhibit Similar Pore Structures in Lipid Bilayers: Atomic Force Microscopy. <i>Biophysical Journal</i> , 2012, 102, 588a-589a.	0.2	0
31	Antimicrobial Properties of Amyloid Peptides. <i>Molecular Pharmaceutics</i> , 2012, 9, 708-717.	2.3	196
32	Polymorphism of amyloid β peptide in different environments: implications for membrane insertion and pore formation. <i>Soft Matter</i> , 2011, 7, 5267.	1.2	61
33	Antimicrobial Protegrin-1 Forms Amyloid-Like Fibrils with Rapid Kinetics Suggesting a Functional Link. <i>Biophysical Journal</i> , 2011, 100, 1775-1783.	0.2	120
34	Engineering the cell-material interface for controlling stem cell adhesion, migration, and differentiation. <i>Biomaterials</i> , 2011, 32, 3700-3711.	5.7	288
35	Potential role of atomic force microscopy in systems biology. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2011, 3, 702-716.	6.6	8
36	Abl Tyrosine Kinase Phosphorylates Nonmuscle Myosin Light Chain Kinase to Regulate Endothelial Barrier Function. <i>Molecular Biology of the Cell</i> , 2010, 21, 4042-4056.	0.9	101

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37	Antimicrobial Protegrin-1 Forms Ion Channels: Molecular Dynamic Simulation, Atomic Force Microscopy, and Electrical Conductance Studies. <i>Biophysical Journal</i> , 2010, 98, 2644-2652.	0.2	49
38	Structural Convergence Among Diverse, Toxic β -Sheet Ion Channels. <i>Journal of Physical Chemistry B</i> , 2010, 114, 9445-9451.	1.2	64
39	Truncated β -amyloid peptide channels provide an alternative mechanism for Alzheimer's Disease and Down syndrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 6538-6543.	3.3	210
40	β -Barrel Topology of Alzheimer's β -Amyloid Ion Channels. <i>Journal of Molecular Biology</i> , 2010, 404, 917-934.	2.0	122
41	Nanoscale Structural and Mechanical Properties of Nontypeable <i>Haemophilus influenzae</i> Biofilms. <i>Journal of Bacteriology</i> , 2009, 191, 2512-2520.	1.0	38
42	Endothelial permeability is controlled by spatially defined cytoskeletal mechanics: Atomic force microscopy force mapping of pulmonary endothelial monolayer. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2009, 5, 30-41.	1.7	77
43	Misfolded Amyloid Ion Channels Present Mobile β -Sheet Subunits in Contrast to Conventional Ion Channels. <i>Biophysical Journal</i> , 2009, 97, 3029-3037.	0.2	98
44	K3 Fragment of Amyloidogenic β -Microglobulin Forms Ion Channels: Implication for Dialysis Related Amyloidosis. <i>Journal of the American Chemical Society</i> , 2009, 131, 14938-14945.	6.6	50
45	Regulation of the Micromechanical Properties of Pulmonary Endothelium by S1P and Thrombin: Role of Cortactin. <i>Biophysical Journal</i> , 2008, 95, 886-894.	0.2	58
46	Self-Assembled Monolayers on C(0001). , 2008, , 513-529.		0
47	Hollow Disc and Sphere-Shaped Particles from Red Blood Cell Templates. <i>Research Letters in Physical Chemistry</i> , 2008, 2008, 1-5.	0.3	0
48	Multimodal Atomic Force Microscopy for Nanomedicine: Biological Nanoimaging, Nanomechanics and Nanodevices. <i>Microscopy and Microanalysis</i> , 2008, 14, 950-951.	0.2	1
49	Analyses of Soft Tissue from <i>Tyrannosaurus rex</i> Suggest the Presence of Protein. <i>Science</i> , 2007, 316, 277-280.	6.0	187
50	Modification of Surface Properties of a Poly(dimethylsiloxane)-Based Elastomer, RTV11, upon Exposure to Seawater. <i>Langmuir</i> , 2006, 22, 7217-7225.	1.6	11
51	Assembly of Multilayer Films Incorporating a Viral Protein Cage Architecture. <i>Langmuir</i> , 2006, 22, 8891-8896.	1.6	66
52	Dendritic Structures of Poly(Ethylene Glycol) on Silicon Nitride and Gold Surfaces. <i>Langmuir</i> , 2006, 22, 3844-3850.	1.6	13
53	Nanomechanics of Hemichannel Conformations. <i>Journal of Biological Chemistry</i> , 2006, 281, 23207-23217.	1.6	59
54	Preservation of Bone Collagen from the Late Cretaceous Period Studied by Immunological Techniques and Atomic Force Microscopy. <i>Langmuir</i> , 2005, 21, 3584-3590.	1.6	26

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55	Comparison of Antibody-Antigen Interactions on Collagen Measured by Conventional Immunological Techniques and Atomic Force Microscopy. <i>Langmuir</i> , 2004, 20, 11053-11063.	1.6	33
56	Interaction of Water with Self-Assembled Monolayers of Alkylsilanes on Mica. <i>Langmuir</i> , 2004, 20, 1284-1290.	1.6	37
57	A Live Bioprobe for Studying Diatom-Surface Interactions. <i>Biophysical Journal</i> , 2004, 87, 4284-4297.	0.2	58
58	Microelastic properties of minimally adhesive surfaces: A comparative study of RTV11 and Intersleek elastomers. <i>Journal of Chemical Physics</i> , 2003, 119, 1671-1682.	1.2	26
59	Atomic-layer expulsion in nanoindentations on an ionic single crystal. <i>Applied Physics Letters</i> , 2000, 77, 839-841.	1.5	22
60	Dynamic characteristics of adsorbed monolayers of 1-dodecanethiol on gold (111) terraces from in-situ scanning tunneling microscopy imaging. <i>Electrochimica Acta</i> , 1998, 44, 1053-1067.	2.6	44
61	Complex Structural Dynamics at Adsorbed Alkanethiol Layers at Au(111) Single-Crystal Domains. <i>Langmuir</i> , 1998, 14, 7203-7212.	1.6	44
62	The dynamic behavior of butanethiol and dodecanethiol adsorbates on Au(111) terraces. <i>Journal of Chemical Physics</i> , 1998, 109, 5703-5706.	1.2	62
63	COMPARATIVE STUDY OF THIOL FILMS ON C(0001) AND Au(111) SURFACES BY SCANNING PROBE MICROSCOPY. <i>Surface Review and Letters</i> , 1997, 04, 637-649.	0.5	10
64	Imaging of uncoated tobacco mosaic virus by scanning tunneling microscopy. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1994, 12, 1508.	1.6	23