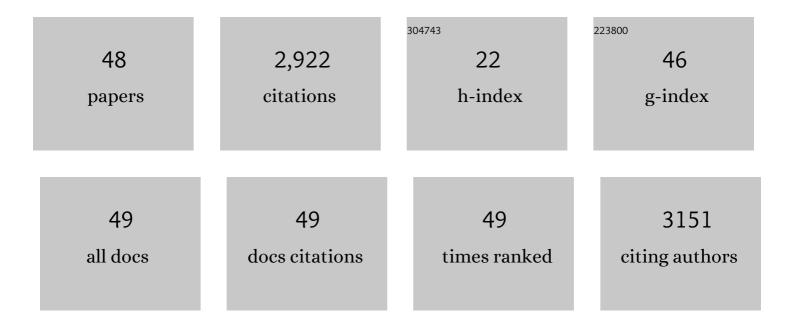
## Luis R Cruz Cruz

List of Publications by Year in descending order

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LIUS P CDUZ CDUZ

#	Article	IF	CITATIONS
1	Traveling Waves in Quasi-One-Dimensional Neuronal Minicolumns. Neural Computation, 2021, , 1-26.	2.2	2
2	Columnar grouping preserves synchronization in neuronal networks with distance-dependent time delays. Physical Review E, 2020, 101, 022408.	2.1	10
3	Role of Cholesterol on Binding of Amyloid Fibrils to Lipid Bilayers. Journal of Physical Chemistry B, 2020, 124, 3036-3042.	2.6	21
4	Force-Field Induced Bias in the Structure of Aβ <sub>21–30</sub> : A Comparison of OPLS, AMBER, CHARMM, and GROMOS Force Fields. Journal of Chemical Information and Modeling, 2015, 55, 2587-2595.	5.4	82
5	Spontaneous dimer states of the Aβ21–30decapeptide. Physical Chemistry Chemical Physics, 2014, 16, 13069-13073.	2.8	7
6	The Stability of a β-Hairpin Is Altered by Surface–Water Interactions under Confinement. Journal of Physical Chemistry B, 2014, 118, 3517-3523.	2.6	9
7	A Computational Model for the Loss of Neuronal Organization in Microcolumns. Biophysical Journal, 2014, 106, 2233-2242.	0.5	4
8	Changes to the Structure and Dynamics in Mutations of Aβ21–30 Caused by lons in Solution. Journal of Physical Chemistry B, 2013, 117, 14907-14915.	2.6	10
9	Effects of Confinement on the Structure and Dynamics of an Intrinsically Disordered Peptide: A Molecular-Dynamics Study. Journal of Physical Chemistry B, 2013, 117, 3707-3719.	2.6	15
10	Effect of Ionic Aqueous Environments on the Structure and Dynamics of the Aβ <sub>21–30</sub> Fragment: A Molecular-Dynamics Study. Journal of Physical Chemistry B, 2013, 117, 6614-6624.	2.6	18
11	Dynamics of Metastable β-Hairpin Structures in the Folding Nucleus of Amyloid β-Protein. Journal of Physical Chemistry B, 2012, 116, 6311-6325.	2.6	28
12	Effect of Confinement on the Folding Dynamics of Amyloid-Beta (21-30) Protein: A Molecular Dynamics Study. Biophysical Journal, 2011, 100, 399a.	0.5	0
13	Elucidation of Amyloid β-Protein Oligomerization Mechanisms: Discrete Molecular Dynamics Study. Journal of the American Chemical Society, 2010, 132, 4266-4280.	13.7	231
14	Age-related reduction in microcolumnar structure correlates with cognitive decline in ventral but not dorsal area 46 of the rhesus monkey. Neuroscience, 2009, 158, 1509-1520.	2.3	23
15	Automated identification of neurons and their locations. Journal of Microscopy, 2008, 230, 339-352.	1.8	16
16	Generating a model of the three-dimensional spatial distribution of neurons using density maps. NeuroImage, 2008, 40, 1105-1115.	4.2	9
17	C-terminal peptides coassemble into Aβ42 oligomers and protect neurons against Aβ42-induced neurotoxicity. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 14175-14180.	7.1	159
18	Preservation of Neuronal Number Despite Age-Related Cortical Brain Atrophy in Elderly Subjects Without Alzheimer Disease. Journal of Neuropathology and Experimental Neurology, 2008, 67, 1205-1212.	1.7	164

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19	Elucidating Amyloid β-Protein Folding and Assembly:  A Multidisciplinary Approach. Accounts of Chemical Research, 2006, 39, 635-645.	15.6	203
20	Ab initio Discrete Molecular Dynamics Approach to Protein Folding and Aggregation. Methods in Enzymology, 2006, 412, 314-338.	1.0	65
21	Computer Simulations of Alzheimers Amyloid β-Protein Folding and Assembly. Current Alzheimer Research, 2006, 3, 493-504.	1.4	36
22	A statistically based density map method for identification and quantification of regional differences in microcolumnarity in the monkey brain. Journal of Neuroscience Methods, 2005, 141, 321-332.	2.5	27
23	Solvent and mutation effects on the nucleation of amyloid Â-protein folding. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 18258-18263.	7.1	113
24	Discrete molecular dynamics simulations of peptide aggregation. Physical Review E, 2004, 69, 041908.	2.1	74
25	Age-related reduction in microcolumnar structure in area 46 of the rhesus monkey correlates with behavioral decline. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 15846-15851.	7.1	38
26	In silico study of amyloid Â-protein folding and oligomerization. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 17345-17350.	7.1	327
27	Molecular Dynamics Simulation of Amyloid $\hat{I}^2$ Dimer Formation. Biophysical Journal, 2004, 87, 2310-2321.	0.5	194
28	Neuron recognition by parallel Potts segmentation. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 3847-3852.	7.1	15
29	Neurotoxic effects of thioflavin S-positive amyloid deposits in transgenic mice and Alzheimer's disease. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 13990-13995.	7.1	213
30	Plaque-Induced Abnormalities in Neurite Geometry in Transgenic Models of Alzheimer Disease: Implications for Neural System Disruption. Journal of Neuropathology and Experimental Neurology, 2001, 60, 753-758.	1.7	88
31	Description of microcolumnar ensembles in association cortex and their disruption in Alzheimer and Lewy body dementias. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 5039-5043.	7.1	96
32	Plaque-induced neurite abnormalities: Implications for disruption of neural networks in Alzheimer's disease. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 5274-5279.	7.1	216
33	Dynamic feedback in an aggregation-disaggregation model. Physical Review E, 1999, 60, 2120-2126.	2.1	20
34	Dynamics of Plaque Formation in Alzheimer's Disease. Biophysical Journal, 1999, 76, 1330-1334.	0.5	60
35	Statistical physics and Alzheimer's disease. Physica A: Statistical Mechanics and Its Applications, 1998, 249, 460-471.	2.6	13
36	Order parameter and segregated phases in a sandpile model with two particle sizes. Physical Review E, 1997, 56, 1571-1579.	2.1	5

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37	Aggregation and disaggregation of senile plaques in Alzheimer disease. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 7612-7616.	7.1	110
38	Cooperative molecular motions in water: The liquid-liquid critical point hypothesis. Physica A: Statistical Mechanics and Its Applications, 1997, 236, 19-37.	2.6	39
39	Kondo Resonance and log T Conductivity in Highly Conducting Trans-Polyacetylene. Europhysics Letters, 1995, 29, 389-394.	2.0	7
40	Phase diagram for strongly correlated dopedtrans-polyacetylene chains. Physical Review B, 1994, 49, 5149-5156.	3.2	8
41	Calculation of the aggregation and electrodynamic effects in granular systems. Physica A: Statistical Mechanics and Its Applications, 1994, 207, 123-130.	2.6	4
42	Metallic polyacetylene is a soliton lattice. Synthetic Metals, 1994, 65, 225-232.	3.9	2
43	T-matrix approach for calculating local fields around clusters of rotated spheroids. Applied Optics, 1993, 32, 2164.	2.1	7
44	Granular-rod model for electronic conduction in polyaniline. Physical Review B, 1993, 47, 1840-1845.	3.2	98
45	Dimer and rods in the conducting state of polyaniline. Synthetic Metals, 1993, 57, 4697-4703.	3.9	6
46	Calculation of Local Fields for Clusters of Ellipsoids Within the T-Katrix Approach. Materials Research Society Symposia Proceedings, 1990, 195, 109.	0.1	0
47	T-matrix approach for the calculation of local fields in the neighborhood of small clusters in the electrodynamic regime. Physical Review B, 1989, 40, 7491-7500.	3.2	10
48	Multiple-scattering theories including correlation effects to obtain the effective dielectric constant of nonhomogeneous thin films. Physical Review B, 1985, 32, 3429-3441.	3.2	20