

# J Carlos Penedo

## List of Publications by Year in descending order

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57  
papers

1,685  
citations

331642

21  
h-index

302107

39  
g-index

60  
all docs

60  
docs citations

60  
times ranked

1800  
citing authors

#	ARTICLE	IF	CITATIONS
1	Folding of the Adenine Riboswitch. <i>Chemistry and Biology</i> , 2006, 13, 857-868.	6.0	255
2	Photoinduced Inter- and Intramolecular Proton Transfer in Aqueous and Ethanolic Solutions of 2-(2-Hydroxyphenyl)benzimidazole: Evidence for Tautomeric and Conformational Equilibria in the Ground State. <i>The Journal of Physical Chemistry</i> , 1996, 100, 5398-5407.	2.9	177
3	Folding of the natural hammerhead ribozyme is enhanced by interaction of auxiliary elements. <i>Rna</i> , 2004, 10, 880-888.	3.5	138
4	Molecular insights into the ligand-controlled organization of the SAM-I riboswitch. <i>Nature Chemical Biology</i> , 2011, 7, 384-392.	8.0	108
5	Riboswitches: Ancient and Promising Genetic Regulators. <i>ChemBioChem</i> , 2009, 10, 400-416.	2.6	78
6	Solvent control of molecular structure and excited-state proton-transfer processes of 1-methyl-2-(2-hydroxyphenyl)- benzimidazole. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1998, 94, 2775-2782.	1.7	54
7	Fluorescence-Based Strategies to Investigate the Structure and Dynamics of Aptamer-Ligand Complexes. <i>Frontiers in Chemistry</i> , 2016, 4, 33.	3.6	53
8	Photophysical study of a family of [Ru(phen) <sub>2</sub> (Mendpq)] <sup>2+</sup> complexes in different solvents and DNA: a specific water effect promoted by methyl substitution. <i>Dalton Transactions</i> , 2005, , 1123.	3.3	43
9	Single-molecule characterization of Fen1 and Fen1/PCNA complexes acting on flap substrates. <i>Nucleic Acids Research</i> , 2014, 42, 1857-1872.	14.5	40
10	Real-time probing of $\beta$ -amyloid self-assembly and inhibition using fluorescence self-quenching between neighbouring dyes. <i>Molecular BioSystems</i> , 2014, 10, 34-44.	2.9	37
11	Mechanism of DNA loading by the DNA repair helicase XPD. <i>Nucleic Acids Research</i> , 2016, 44, 2806-2815.	14.5	37
12	Role of Hydrogen-Bonded Adducts in Excited-State Proton-Transfer Processes. <i>Journal of Physical Chemistry A</i> , 2000, 104, 7429-7441.	2.5	34
13	Solvent dependent photophysics of fac-[Re(CO) <sub>3</sub> (11,12-X <sub>2</sub> dppz)(py)] <sup>+</sup> (X = H, F or Me). <i>Photochemical and Photobiological Sciences</i> , 2007, 6, 741.	2.9	31
14	Single-molecule chemical denaturation of riboswitches. <i>Nucleic Acids Research</i> , 2013, 41, 4253-4265.	14.5	30
15	Fluorescence tools to investigate riboswitch structural dynamics. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2014, 1839, 1005-1019.	1.9	26
16	PCNA stimulates catalysis by structure-specific nucleases using two distinct mechanisms: substrate targeting and catalytic step. <i>Nucleic Acids Research</i> , 2008, 36, 6720-6727.	14.5	25
17	Binding dynamics of a monomeric SSB protein to DNA: a single-molecule multi-process approach. <i>Nucleic Acids Research</i> , 2015, 43, 10907-10924.	14.5	25
18	Ubiquitin transfer by a RING E3 ligase occurs from a closed E2-ubiquitin conformation. <i>Nature Communications</i> , 2020, 11, 2846.	12.8	25

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19	On the Mechanism of Alcohol-Catalyzed Excited-State Intramolecular Proton Transfer in Cationic Benzimidazoles. <i>Journal of Physical Chemistry A</i> , 1999, 103, 7236-7243.	2.5	23
20	PCNA and XPF cooperate to distort DNA substrates. <i>Nucleic Acids Research</i> , 2010, 38, 1664-1675.	14.5	23
21	Towards Ratiometric Sensing of Amyloid Fibrils In Vitro. <i>Chemistry - A European Journal</i> , 2015, 21, 3425-3434.	3.3	23
22	Folding of the SAM-I riboswitch. <i>RNA Biology</i> , 2012, 9, 535-541.	3.1	22
23	Unprecedented tunability of riboswitch structure and regulatory function by sub-millimolar variations in physiological Mg <sup>2+</sup> . <i>Nucleic Acids Research</i> , 2019, 47, 6478-6487.	14.5	22
24	Functional Studies of DNA-Protein Interactions Using FRET Techniques. <i>Methods in Molecular Biology</i> , 2009, 543, 475-502.	0.9	22
25	Constitutive Regulatory Activity of an Evolutionarily Excluded Riboswitch Variant. <i>Journal of Biological Chemistry</i> , 2011, 286, 27406-27415.	3.4	20
26	Unveiling the multi-step solubilization mechanism of sub-micron size vesicles by detergents. <i>Scientific Reports</i> , 2019, 9, 12897.	3.3	20
27	Solvent-Dependent Ground- and Excited-State Tautomerism in 2-(6-Hydroxy-2-pyridyl)benzimidazole. <i>Journal of Physical Chemistry A</i> , 2004, 108, 6117-6126.	2.5	19
28	The phosphorylation of Hsp20 enhances its association with amyloid- $\beta^2$ to increase protection against neuronal cell death. <i>Molecular and Cellular Neurosciences</i> , 2014, 61, 46-55.	2.2	19
29	Molecular Basis of RNA-Mediated Gene Regulation on the Adenine Riboswitch by Single-Molecule Approaches. <i>Methods in Molecular Biology</i> , 2009, 540, 65-76.	0.9	19
30	Monitoring RNA dynamics in native transcriptional complexes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	18
31	Real-time observation of conformational switching in single conjugated polymer chains. <i>Science Advances</i> , 2018, 4, eaao5786.	10.3	17
32	Application of Fluorescent Measurements for Characterization of Riboswitch-Ligand Interactions. <i>Methods in Molecular Biology</i> , 2009, 540, 25-37.	0.9	16
33	DNA binding and unwinding by Hel308 helicase requires dual functions of a winged helix domain. <i>DNA Repair</i> , 2017, 57, 125-132.	2.8	16
34	Solution-Based Single Molecule Imaging of Surface-Immobilized Conjugated Polymers. <i>Journal of the American Chemical Society</i> , 2013, 135, 7187-7193.	13.7	15
35	Asymmetric base-pair opening drives helicase unwinding dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 22471-22477.	7.1	15
36	High-affinity RNA binding by a hyperthermophilic single-stranded DNA-binding protein. <i>Extremophiles</i> , 2017, 21, 369-379.	2.3	14

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37	Using sm-FRET and Denaturants to Reveal Folding Landscapes. <i>Methods in Enzymology</i> , 2014, 549, 313-341.	1.0	13
38	Single-Molecule Fluorescence of Nucleic Acids. <i>Methods in Molecular Biology</i> , 2014, 1076, 759-791.	0.9	13
39	Functional Studies of DNA-Protein Interactions Using FRET Techniques. <i>Methods in Molecular Biology</i> , 2015, 1334, 115-141.	0.9	12
40	Morphology-Specific Inhibition of $\beta$ -Amyloid Aggregates by 17 $\beta$ -Hydroxysteroid Dehydrogenase Type 10. <i>ChemBioChem</i> , 2016, 17, 1029-1037.	2.6	12
41	A structural intermediate pre-organizes the <i>add</i> adenine riboswitch for ligand recognition. <i>Nucleic Acids Research</i> , 2021, 49, 5891-5904.	14.5	12
42	Functional 3D architecture in an intrinsically disordered E3 ligase domain facilitates ubiquitin transfer. <i>Nature Communications</i> , 2020, 11, 3807.	12.8	11
43	An integrated perspective on RNA aptamer ligand-recognition models: clearing muddy waters. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 6921-6932.	2.8	9
44	Two Competitive Routes in the Lactim $\rightleftharpoons$ Lactam Phototautomerization of a Hydroxypyridine Derivative Cation in Water: Dissociative Mechanism versus Water-Assisted Proton Transfer. <i>Journal of Physical Chemistry A</i> , 2005, 109, 10189-10198.	2.5	7
45	Single-Molecule Approaches for the Characterization of Riboswitch Folding Mechanisms. <i>Methods in Molecular Biology</i> , 2015, 1334, 101-107.	0.9	7
46	Biophysical Approaches to Bacterial Gene Regulation by Riboswitches. <i>Advances in Experimental Medicine and Biology</i> , 2016, 915, 157-191.	1.6	7
47	Single-Molecule Spectroscopy of Polyfluorene Chains Reveals $\beta$ -Phase Content and Phase Reversibility in Organic Solvents. <i>Matter</i> , 2019, 1, 1399-1410.	10.0	6
48	Fatty acids may influence insulin dynamics through modulation of albumin $\text{Zn}^{2+}$ interactions. <i>BioEssays</i> , 2021, 43, e2100172.	2.5	5
49	The influence of various regions of the FOXP2 sequence on its structure and DNA-binding function. <i>Bioscience Reports</i> , 2021, 41, .	2.4	4
50	Ultrafast transient absorption studies of ruthenium and rhenium dipyridophenazine complexes bound to DNA and polynucleotides. , 2003, , .		3
51	Single-Molecule Strategies for DNA and RNA Diagnostics. <i>RNA Technologies</i> , 2015, , 297-332.	0.3	3
52	Natural Functional Nucleic Acids: Ribozymes and Riboswitches. , 2009, , 11-46.		1
53	High-Affinity Fluorescence Sensing of G-Quadruplexes. <i>Biophysical Journal</i> , 2015, 108, 393a.	0.5	1
54	Molecular Insights Into the Organization and Folding Dynamics of Metabolite-Sensing Riboswitches. <i>Biophysical Journal</i> , 2011, 100, 1a.	0.5	0

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55	Solubilisation of Lipid Membranes by Detergents: Probing the Three-State Model at the Single Vesicle Level. <i>Biophysical Journal</i> , 2013, 104, 174a.	0.5	0
56	Structure and Functional Dynamics of Fluoride-Sensing Riboswitches. <i>Biophysical Journal</i> , 2013, 104, 411a.	0.5	0
57	Twin-FRET: A New Molecular Ruler for Biomolecules. <i>Biophysical Journal</i> , 2019, 116, 565a.	0.5	0