

Carlos Briones

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8240942/publications.pdf>

Version: 2024-02-01

87
papers

3,445
citations

126708

33
h-index

149479

56
g-index

93
all docs

93
docs citations

93
times ranked

3890
citing authors

#	ARTICLE	IF	CITATIONS
1	In vitro Selection of High Affinity DNA and RNA Aptamers that Detect Hepatitis C Virus Core Protein of Genotypes 1 to 4 and Inhibit Virus Production in Cell Culture. <i>Journal of Molecular Biology</i> , 2022, 434, 167501.	2.0	13
2	Population Disequilibrium as Promoter of Adaptive Explorations in Hepatitis C Virus. <i>Viruses</i> , 2021, 13, 616.	1.5	7
3	Discovery in space of ethanolamine, the simplest phospholipid head group. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	62
4	Amino Acid Substitutions Associated with Treatment Failure for Hepatitis C Virus Infection. <i>Journal of Clinical Microbiology</i> , 2020, 58, .	1.8	15
5	The Complex Molecules Detector (CMOLD): A Fluidic-Based Instrument Suite to Search for (Bio)chemical Complexity on Mars and Icy Moons. <i>Astrobiology</i> , 2020, 20, 1076-1096.	1.5	16
6	Dissimilar Conservation Pattern in Hepatitis C Virus Mutant Spectra, Consensus Sequences, and Data Banks. <i>Journal of Clinical Medicine</i> , 2020, 9, 3450.	1.0	12
7	Broad and Dynamic Diversification of Infectious Hepatitis C Virus in a Cell Culture Environment. <i>Journal of Virology</i> , 2020, 94, .	1.5	20
8	A new implication of quasispecies dynamics: Broad virus diversification in absence of external perturbations. <i>Infection, Genetics and Evolution</i> , 2020, 82, 104278.	1.0	20
9	Prebiotic Precursors of the Primordial RNA World in Space: Detection of NH ₂ OH. <i>Astrophysical Journal Letters</i> , 2020, 899, L28.	3.0	63
10	The archaeology of coding RNA. <i>Annals of the New York Academy of Sciences</i> , 2019, 1447, 119-134.	1.8	10
11	A Combined ELONA-(RT)qPCR Approach for Characterizing DNA and RNA Aptamers Selected against PCBP-2. <i>Molecules</i> , 2019, 24, 1213.	1.7	14
12	Direct visualization of the native structure of viroid RNAs at single-molecule resolution by atomic force microscopy. <i>RNA Biology</i> , 2019, 16, 295-308.	1.5	17
13	Versatile Graphene-Based Platform for Robust Nanobiohybrid Interfaces. <i>ACS Omega</i> , 2019, 4, 3287-3297.	1.6	9
14	Morphology Clustering Software for AFM Images, Based on Particle Isolation and Artificial Neural Networks. <i>IEEE Access</i> , 2019, 7, 160304-160323.	2.6	2
15	Experimental conditions affecting the kinetics of aqueous HCN polymerization as revealed by UV-vis spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 191, 389-397.	2.0	14
16	Chemical roots of biological evolution: the origins of life as a process of development of autonomous functional systems. <i>Open Biology</i> , 2017, 7, 170050.	1.5	71
17	An Efficient Microarray-Based Genotyping Platform for the Identification of Drug-Resistance Mutations in Majority and Minority Subpopulations of HIV-1 Quasispecies. <i>PLoS ONE</i> , 2016, 11, e0166902.	1.1	7
18	The systems perspective at the crossroads between chemistry and biology. <i>Journal of Theoretical Biology</i> , 2015, 381, 11-22.	0.8	37

#	ARTICLE	IF	CITATIONS
19	A magnesium-induced RNA conformational switch at the internal ribosome entry site of hepatitis C virus genome visualized by atomic force microscopy. <i>Nucleic Acids Research</i> , 2015, 43, 565-580.	6.5	23
20	A novel representation of genomic sequences for taxonomic clustering and visualization by means of self-organizing maps. <i>Bioinformatics</i> , 2015, 31, 736-744.	1.8	19
21	High-Resolution Hepatitis C Virus Subtyping Using NS5B Deep Sequencing and Phylogeny, an Alternative to Current Methods. <i>Journal of Clinical Microbiology</i> , 2015, 53, 219-226.	1.8	74
22	Structural modifications of gold thin films produced by thiol-derivatized single-stranded DNA immobilization. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 055010.	0.7	6
23	End-to-end crosstalk within the hepatitis C virus genome mediates the conformational switch of the 3'X-tail region. <i>Nucleic Acids Research</i> , 2014, 42, 567-582.	6.5	53
24	Deep subsurface sulfate reduction and methanogenesis in the Iberian Pyrite Belt revealed through geochemistry and molecular biomarkers. <i>Geobiology</i> , 2014, 12, 34-47.	1.1	33
25	Prebiotic Systems Chemistry: New Perspectives for the Origins of Life. <i>Chemical Reviews</i> , 2014, 114, 285-366.	23.0	674
26	Efficient HIV-1 inhibition by a 16 nt-long RNA aptamer designed by combining in vitro selection and in silico optimisation strategies. <i>Scientific Reports</i> , 2014, 4, 6242.	1.6	34
27	EMERGENCE AND SELECTION OF BIOMODULES: STEPS IN THE ASSEMBLY OF A PROTOCELL. <i>World Scientific Lecture Notes in Complex Systems</i> , 2013, , 323-343.	0.1	0
28	The folding of the hepatitis C virus internal ribosome entry site depends on the 3'-end of the viral genome. <i>Nucleic Acids Research</i> , 2012, 40, 11697-11713.	6.5	37
29	Applications of peptide nucleic acids (PNAs) and locked nucleic acids (LNAs) in biosensor development. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 3071-3089.	1.9	102
30	Structural analysis provides insights into the modular organization of picornavirus IRES. <i>Virology</i> , 2011, 409, 251-261.	1.1	46
31	Structural basis for the biological relevance of the invariant apical stem in IRES-mediated translation. <i>Nucleic Acids Research</i> , 2011, 39, 8572-8585.	6.5	58
32	The metavirome of a hypersaline environment. <i>Environmental Microbiology</i> , 2010, 12, 2965-2976.	1.8	78
33	Populations of RNA Molecules as Computational Model for Evolution. , 2010, , 67-79.		0
34	The dawn of the RNA World: Toward functional complexity through ligation of random RNA oligomers. <i>Rna</i> , 2009, 15, 743-749.	1.6	89
35	Nucleic acid interactions with pyrite surfaces. <i>Chemical Physics</i> , 2008, 352, 11-18.	0.9	19
36	Synthesis of cobalt ferrite core/metallic shell nanoparticles for the development of a specific PNA/DNA biosensor. <i>Journal of Colloid and Interface Science</i> , 2008, 321, 484-492.	5.0	128

#	ARTICLE	IF	CITATIONS
37	On the structural repertoire of pools of short, random RNA sequences. <i>Journal of Theoretical Biology</i> , 2008, 252, 750-763.	0.8	43
38	Label-free detection of DNA hybridization based on hydration-induced tension in nucleic acid films. <i>Nature Nanotechnology</i> , 2008, 3, 301-307.	15.6	194
39	Topology of evolving, mutagenized viral populations: quasispecies expansion, compression, and operation of negative selection. <i>BMC Evolutionary Biology</i> , 2008, 8, 207.	3.2	31
40	Silicon Surface Nanostructuring for Covalent Immobilization of Biomolecules. <i>Journal of Physical Chemistry C</i> , 2008, 112, 9308-9314.	1.5	22
41	Minority report: hidden memory genomes in HIV-1 quasispecies and possible clinical implications. <i>AIDS Reviews</i> , 2008, 10, 93-109.	0.5	51
42	Characterization of minority subpopulations in the mutant spectrum of HIV-1 quasispecies by successive specific amplifications. <i>Virus Research</i> , 2007, 129, 123-134.	1.1	11
43	Do peptide nucleic acids form self-assembled monolayers on pyrite surfaces?. <i>Surface Science</i> , 2007, 601, 4195-4199.	0.8	11
44	A DNA biosensor based on peptide nucleic acids on gold surfaces. <i>Biosensors and Bioelectronics</i> , 2007, 22, 1926-1932.	5.3	79
45	Collective properties of evolving molecular quasispecies. <i>BMC Evolutionary Biology</i> , 2007, 7, 110.	3.2	36
46	Clustering and Visualizing HIV Quasispecies Using Kohonen's Self-Organizing Maps. , 2007, , 940-947.		0
47	Minority memory genomes can influence the evolution of HIV-1 quasispecies in vivo. <i>Gene</i> , 2006, 384, 129-138.	1.0	35
48	Genomics of Viruses. , 2006, , 367-388.		5
49	Microarray-based identification of antigenic variants of foot-and-mouth disease virus: a bioinformatics quality assessment. <i>BMC Genomics</i> , 2006, 7, 117.	1.2	16
50	Modular evolution and increase of functional complexity in replicating RNA molecules. <i>Rna</i> , 2006, 13, 97-107.	1.6	44
51	STEC-EPEC Oligonucleotide Microarray: A New Tool for Typing Genetic Variants of the LEE Pathogenicity Island of Human and Animal Shiga Toxin-producing <i>Escherichia coli</i> (STEC) and Enteropathogenic <i>E. coli</i> (EPEC) Strains. <i>Clinical Chemistry</i> , 2006, 52, 192-201.	1.5	67
52	Nucleic Acids and Their Analogs as Nanomaterials for Biosensor Development. <i>Current Nanoscience</i> , 2006, 2, 257-273.	0.7	24
53	Instrument development to search for biomarkers on mars: Terrestrial acidophile, iron-powered chemolithoautotrophic communities as model systems. <i>Planetary and Space Science</i> , 2005, 53, 729-737.	0.9	77
54	Reconstructing evolutionary relationships from functional data: a consistent classification of organisms based on translation inhibition response. <i>Molecular Phylogenetics and Evolution</i> , 2005, 34, 371-381.	1.2	15

#	ARTICLE	IF	CITATIONS
55	Structural and functional characterization of self-assembled monolayers of peptide nucleic acids and its interaction with complementary DNA. <i>Journal of Molecular Catalysis A</i> , 2005, 228, 131-136.	4.8	20
56	Self-Assembled Monolayers of Peptide Nucleic Acids on Gold Surfaces: A Spectroscopic Study. <i>Langmuir</i> , 2005, 21, 9510-9517.	1.6	54
57	Protein evolution in viral quasispecies under selective pressure: A thermodynamic and phylogenetic analysis. <i>Gene</i> , 2005, 347, 237-246.	1.0	6
58	Ordered SAMS of peptide nucleic acids on surfaces with DNA recognition capability. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2005, 61, c415-c415.	0.3	0
59	Functional Evolution of Ribosomes. , 2004, , 106-118.		0
60	Ordered Self-Assembled Monolayers of Peptide Nucleic Acids with DNA Recognition Capability. <i>Physical Review Letters</i> , 2004, 93, 208103.	2.9	42
61	Structural analysis of hepatitis C RNA genome using DNA microarrays. <i>Nucleic Acids Research</i> , 2004, 32, e90-e90.	6.5	16
62	Memory in Retroviral Quasispecies: Experimental Evidence and Theoretical Model for Human Immunodeficiency Virus. <i>Journal of Molecular Biology</i> , 2003, 331, 213-229.	2.0	52
63	Detection and Biological Implications of Genetic Memory in Viral Quasispecies. <i>Developments in Cardiovascular Medicine</i> , 2003, , 259-276.	0.1	4
64	Duration and fitness dependence of quasispecies memory. <i>Journal of Molecular Biology</i> , 2002, 315, 285-296.	2.0	74
65	Prevalence and Genetic Heterogeneity of the Reverse Transcriptase T69S-S-X Insertion in Pretreated HIV-Infected Patients. <i>Intervirology</i> , 2001, 44, 339-343.	1.2	10
66	Primary Genotypic and Phenotypic HIV-1 Drug Resistance in Recent Seroconverters in Madrid. <i>Journal of Acquired Immune Deficiency Syndromes (1999)</i> , 2001, 26, 145-150.	0.9	62
67	Primary Genotypic and Phenotypic HIV-1 Drug Resistance in Recent Seroconverters in Madrid. <i>Journal of Acquired Immune Deficiency Syndromes (1999)</i> , 2001, 26, 145-150.	0.9	35
68	Can Early Failure With Nevirapine Be Rescued With Efavirenz?. <i>Journal of Acquired Immune Deficiency Syndromes (1999)</i> , 2000, 24, 76-78.	0.9	11
69	Can Early Failure With Nevirapine Be Rescued With Efavirenz?. <i>Journal of Acquired Immune Deficiency Syndromes (1999)</i> , 2000, 24, 76-78.	0.9	12
70	Emergence of Zidovudine Resistance in HIV-Infected Patients Receiving Stavudine. <i>Journal of Acquired Immune Deficiency Syndromes (1999)</i> , 2000, 23, 279-281.	0.9	9
71	Emergence of Zidovudine Resistance in HIV-Infected Patients Receiving Stavudine. <i>Journal of Acquired Immune Deficiency Syndromes (1999)</i> , 2000, 23, 279-281.	0.9	18
72	Nucleotide Sequence of the 23S rRNA from <i>Haloferax mediterranei</i> and Phylogenetic Analysis of Halophilic Archaea Based on LSU rRNA. <i>Systematic and Applied Microbiology</i> , 2000, 23, 124-131.	1.2	8

#	ARTICLE	IF	CITATIONS
73	Role of a dipeptide insertion between codons 69 and 70 of HIV-1 reverse transcriptase in the mechanism of AZT resistance. <i>EMBO Journal</i> , 2000, 19, 5752-5761.	3.5	100
74	Conformational changes induced in the <i>Saccharomyces cerevisiae</i> GTPase-associated rRNA by ribosomal stalk components and a translocation inhibitor. <i>Nucleic Acids Research</i> , 2000, 28, 4497-4505.	6.5	8
75	Prevalence of genotypic resistance to nucleoside analogues and protease inhibitors in Spain. <i>Aids</i> , 2000, 14, 727-732.	1.0	53
76	Prevalence of Novel Lamivudine-Resistant Genotypes (E44D/A, V118I) in Naive and Pretreated HIV-Infected Individuals. <i>Journal of Acquired Immune Deficiency Syndromes</i> (1999), 2000, 25, 95-96.	0.9	6
77	Prevalence of Novel Lamivudine-Resistant Genotypes (E44D/A, V118I) in Naive and Pretreated HIV-Infected Individuals. <i>Journal of Acquired Immune Deficiency Syndromes</i> (1999), 2000, 25, 95-96.	0.9	8
78	Dynamics of dominance of a dipeptide insertion in reverse transcriptase of HIV-1 from patients subjected to prolonged therapy. <i>Virus Research</i> , 2000, 66, 13-26.	1.1	34
79	Hepatitis C virus genotypes in immigrants from equatorial guinea. <i>Journal of Hepatology</i> , 2000, 32, 189.	1.8	0
80	Prevalence of drug-resistant HIV-1 genotypes in heavily pre-treated patients on current virological failure. <i>Aids</i> , 2000, 14, 1659-1660.	1.0	5
81	Usefulness of Genotypic Analysis of Resistance to Nucleoside Analogues in the Clinical Setting. <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , 1999, 18, 448-449.	1.3	3
82	Introduction of HIV drug-resistance testing in clinical practice. <i>Aids</i> , 1999, 13, 1007-1014.	1.0	62
83	Different outcome in the first two patients with an HIV-1 multinucleoside drug-resistant T69SSS insertion in Spain. <i>Antiviral Therapy</i> , 1999, 4, 125-7.	0.6	4
84	Different Outcome in the First Two Patients with an HIV-1 Multinucleoside Drug-Resistant T69SSS Insertion in Spain. <i>Antiviral Therapy</i> , 1999, 4, 125-127.	0.6	11
85	Functional phylogeny: the use of the sensitivity of ribosomes to protein synthesis inhibitors as a tool to study the evolution of organisms. <i>Origins of Life and Evolution of Biospheres</i> , 1998, 28, 571-582.	0.8	3
86	The GTPase Center Protein L12 Is Required for Correct Ribosomal Stalk Assembly but Not for <i>Saccharomyces cerevisiae</i> Viability. <i>Journal of Biological Chemistry</i> , 1998, 273, 31956-31961.	1.6	51
87	Iberian Pyrite Belt Subsurface Life (IPBSL), a Drilling Project of Biohydrometallurgical Interest. <i>Advanced Materials Research</i> , 0, 825, 15-18.	0.3	18