

Icaro P Caruso

List of Publications by Year in descending order

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55
papers

550
citations

687363

13
h-index

752698

20
g-index

59
all docs

59
docs citations

59
times ranked

833
citing authors

#	ARTICLE	IF	CITATIONS
1	Crystal structure of mature 2S albumin from <i>Moringa oleifera</i> seeds. <i>Biochemical and Biophysical Research Communications</i> , 2015, 468, 365-371.	2.1	43
2	Quercetin pentaacetate inhibits in vitro human respiratory syncytial virus adhesion. <i>Virus Research</i> , 2020, 276, 197805.	2.2	40
3	Exploring the binding mechanism of Guajaverin to human serum albumin: Fluorescence spectroscopy and computational approach. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 97, 449-455.	3.9	33
4	Active site mapping of <i>Loxosceles</i> phospholipases D: Biochemical and biological features. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2016, 1861, 970-979.	2.4	29
5	Large-Scale Recombinant Production of the SARS-CoV-2 Proteome for High-Throughput and Structural Biology Applications. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 653148.	3.5	29
6	Potential Implications for Designing Drugs Against the Brown Spider Venom Phospholipase. <i>Journal of Cellular Biochemistry</i> , 2017, 118, 726-738.	2.6	26
7	Binding of antioxidant flavone isovitexin to human serum albumin investigated by experimental and computational assays. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014, 98, 100-106.	2.8	25
8	4-Methylesculetin, a natural coumarin with intestinal anti-inflammatory activity, elicits a glutathione antioxidant response by different mechanisms. <i>Chemico-Biological Interactions</i> , 2020, 315, 108876.	4.0	19
9	Spectral and computational features of the binding between riparins and human serum albumin. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 190, 81-88.	3.9	16
10	Insights into the specificity for the interaction of the promiscuous SARS-CoV-2 nucleocapsid protein N-terminal domain with deoxyribonucleic acids. <i>International Journal of Biological Macromolecules</i> , 2022, 203, 466-480.	7.5	16
11	An integrated approach with experimental and computational tools outlining the cooperative binding between 2-phenylchromone and human serum albumin. <i>Food Chemistry</i> , 2016, 196, 935-942.	8.2	15
12	Insights into Interactions of Flavanones with Target Human Respiratory Syncytial Virus M2-1 Protein from STD-NMR, Fluorescence Spectroscopy, and Computational Simulations. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2241.	4.1	15
13	Cold Shock Protein A from <i>Corynebacterium pseudotuberculosis</i> : Role of Electrostatic Forces in the Stability of the Secondary Structure. <i>Protein and Peptide Letters</i> , 2017, 24, 358-367.	0.9	15
14	Study protocol to investigate biomolecular muscle profile as predictors of long-term urinary incontinence in women with gestational diabetes mellitus. <i>BMC Pregnancy and Childbirth</i> , 2020, 20, 117.	2.4	14
15	Expression, purification and characterization of cold shock protein A of <i>Corynebacterium pseudotuberculosis</i> . <i>Protein Expression and Purification</i> , 2015, 112, 15-20.	1.3	13
16	Crystal structure of <i>Staphylococcus aureus</i> exfoliative toxin D-like protein: Structural basis for the high specificity of exfoliative toxins. <i>Biochemical and Biophysical Research Communications</i> , 2015, 467, 171-177.	2.1	13
17	Grb2 dimer interacts with Coumarin through SH2 domains: A combined experimental and molecular modeling study. <i>Heliyon</i> , 2019, 5, e02869.	3.2	13
18	Dynamics of the SARS-CoV-2 nucleoprotein N-terminal domain triggers RNA duplex destabilization. <i>Biophysical Journal</i> , 2021, 120, 2814-2827.	0.5	12

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19	Experimental evidence and molecular modeling of the interaction between hRSV-NS1 and quercetin. <i>International Journal of Biological Macromolecules</i> , 2016, 85, 40-47.	7.5	11
20	An investigation into the interaction between piplartine (piperlongumine) and human serum albumin. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 220, 117084.	3.9	11
21	The dynamics of free and phosphopeptide-bound Grb2-SH2 reveals two dynamically independent subdomains and an encounter complex with fuzzy interactions. <i>Scientific Reports</i> , 2020, 10, 13040.	3.3	11
22	Biophysical and flavonoid-binding studies of the G protein ectodomain of group A human respiratory syncytial virus. <i>Heliyon</i> , 2019, 5, e01394.	3.2	10
23	Protein Surface Interactions—Theoretical and Experimental Studies. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 706002.	3.5	9
24	Annexin A1 Mimetic Peptide and Piperlongumine: Anti-Inflammatory Profiles in Endotoxin-Induced Uveitis. <i>Cells</i> , 2021, 10, 3170.	4.1	9
25	Effect of modified clays on the structure and functional properties of biofilms produced with zein. <i>Food Science and Technology</i> , 2012, 32, 314-322.	1.7	8
26	Biophysical characterization of the interaction between M2-1 protein of hRSV and quercetin. <i>International Journal of Biological Macromolecules</i> , 2017, 95, 63-71.	7.5	8
27	Fluorescence spectroscopic and dynamics simulation studies on isoorientin binding with human serum albumin. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 228, 117738.	3.9	8
28	Identification of Folding Intermediates of Streblin, The Most Stable Serine Protease: Biophysical Analysis. <i>Applied Biochemistry and Biotechnology</i> , 2014, 172, 658-671.	2.9	7
29	Exploring the Binding Mechanism of Flavonoid Quercetin to Phospholipase A2: Fluorescence Spectroscopy and Computational Approach. <i>European Journal of Experimental Biology</i> , 2017, 07, .	0.3	7
30	Binding investigation between M2-1 protein from hRSV and acetylated quercetin derivatives: ¹ H NMR, fluorescence spectroscopy, and molecular docking. <i>International Journal of Biological Macromolecules</i> , 2018, 111, 33-38.	7.5	7
31	Chemical and thermal influence of the [4Fe-4S] ₂ ⁺ cluster of A/G-specific adenine glycosylase from <i>Corynebacterium pseudotuberculosis</i> . <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2015, 1850, 393-400.	2.4	6
32	Bacterial and Arachnid Sphingomyelinases D: Comparison of Biophysical and Pathological Activities. <i>Journal of Cellular Biochemistry</i> , 2017, 118, 2053-2063.	2.6	6
33	Structure and interaction of <i>Corynebacterium pseudotuberculosis</i> cold shock protein A with a single-stranded DNA fragment. <i>FEBS Journal</i> , 2018, 285, 372-390.	4.7	6
34	Hesperetin targets the hydrophobic pocket of the nucleoprotein/phosphoprotein binding site of human respiratory syncytial virus. <i>Journal of Biomolecular Structure and Dynamics</i> , 2022, 40, 2156-2168.	3.5	6
35	Biophysical characterization and molecular phylogeny of human KIN protein. <i>European Biophysics Journal</i> , 2019, 48, 645-657.	2.2	5
36	NMR assignment of free ¹ H, ¹⁵ N and ¹³ C-Grb2-SH2 domain. <i>Biomolecular NMR Assignments</i> , 2019, 13, 295-298.	0.8	5

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37	Unique structural features of flaviviruses' capsid proteins: new insights on structure-function relationship. <i>Current Opinion in Virology</i> , 2021, 47, 106-112.	5.4	5
38	Biophysical and Dynamic Characterization of Fine-Tuned Binding of the Human Respiratory Syncytial Virus M2-1 Core Domain to Long RNAs. <i>Journal of Virology</i> , 2020, 94, .	3.4	3
39	Characterization of the Thermal and Chemical Denaturation of the Matrix Protein from hRSV. <i>Biophysical Journal</i> , 2020, 118, 358a-359a.	0.5	2
40	¹ H, ¹⁵ N and ¹³ C resonance assignments of the N-terminal domain of the nucleocapsid protein from the endemic human coronavirus HKU1. <i>Biomolecular NMR Assignments</i> , 2021, 15, 153-157.	0.8	2
41	Deciphering the Path of S-nitrosation of Human Thioredoxin: Evidence of an Internal NO Transfer and Implication for the Cellular Responses to NO. <i>Antioxidants</i> , 2022, 11, 1236.	5.1	2
42	Molecular Docking Studies of Curcumin Analogues against SARS-CoV-2 Spike Protein. <i>Journal of the Brazilian Chemical Society</i> , 0, , .	0.6	1
43	Thermodynamic profile and molecular modeling of the interaction between Grb2 dimer and flavonoids Rutin and Morin. <i>Journal of Molecular Structure</i> , 2021, 1234, 130164.	3.6	1
44	Investigation of the Interaction between Coumarins and Its Derivatives with Human Serum Albumin: STD-NMR, Fluorescence and Docking Molecular Studies. <i>International Journal of Sciences</i> , 2016, 2, 1-11.	0.0	1
45	Searching for drug leads targeted to the hydrophobic cleft of dengue virus capsid protein. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2022, 37, 287-298.	5.2	1
46	Functional expression, monodispersity and conformational changes in the SBMV virus viral VPg on binding TFE. <i>International Journal of Biological Macromolecules</i> , 2016, 83, 178-184.	7.5	0
47	Investigation on the interaction between nanocarriers and functional compounds of flavonoids. <i>Acta Horticulturae</i> , 2018, , 93-96.	0.2	0
48	Biophysical Characterization of the Binding of hRSV M2-1 Protein to RNA and Solasodine. <i>Biophysical Journal</i> , 2020, 118, 515a.	0.5	0
49	The Application of NMR Metabolomics in the Study of the Wound Healing Process. <i>Biophysical Journal</i> , 2020, 118, 135a-136a.	0.5	0
50	Interaction between iron ion and dipole carbon monoxide inside spherical cavities. <i>European Physical Journal D</i> , 2021, 75, 1.	1.3	0
51	Structural and biophysical characterization of the major proteins from the seminal plasma of Dorper rams. <i>Theriogenology</i> , 2021, 166, 64-70.	2.1	0
52	¹ H, ¹⁵ N, and ¹³ C resonance assignments of the SH3-like tandem domain of human KIN protein. <i>Biomolecular NMR Assignments</i> , 2021, 15, 449-453.	0.8	0
53	What Is the Effect of Physical Exercise on Nafld/Nash. <i>American Journal of Sports Science</i> , 2021, 9, 1.	0.2	0
54	Preparation and Characterization of Monomodal Grapevine Virus A Capsid Protein. <i>Protein and Peptide Letters</i> , 2015, 22, 712-718.	0.9	0

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55	Characterization of secondary structure and thermal stability by biophysical methods of the D-alanyl,D-alanine ligase B protein from Escherichia coli. Protein and Peptide Letters, 2022, 29, .	0.9	0