

Antônio M Baptista

List of Publications by Year in descending order

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3228
citing authors

#	ARTICLE	IF	CITATIONS
1	Approach to Study pH-Dependent Protein Association Using Constant-pH Molecular Dynamics: Application to the Dimerization of β^2 -Lactoglobulin. <i>Journal of Chemical Theory and Computation</i> , 2022, 18, 1982-2001.	2.3	7
2	Effect of pH on the influenza fusion peptide properties unveiled by constant-pH molecular dynamics simulations combined with experiment. <i>Scientific Reports</i> , 2020, 10, 20082.	1.6	14
3	A pH Replica Exchange Scheme in the Stochastic Titration Constant-pH MD Method. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 3108-3116.	2.3	17
4	Molecular Anatomy of Plant Photoprotective Switches: The Sensitivity of PsbS to the Environment, Residue by Residue. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 1737-1742.	2.1	34
5	Role of Counterions in Constant-pH Molecular Dynamics Simulations of PAMAM Dendrimers. <i>ACS Omega</i> , 2018, 3, 2001-2009.	1.6	20
6	Effect of a pH Gradient on the Protonation States of Cytochrome <i>c</i> Oxidase: A Continuum Electrostatics Study. <i>Journal of Chemical Information and Modeling</i> , 2017, 57, 256-266.	2.5	5
7	Structuring Peptide Dendrimers through pH Modulation and Substrate Binding. <i>Journal of Physical Chemistry B</i> , 2016, 120, 10138-10152.	1.2	8
8	Predicting protein partition coefficients in aqueous two phase system. <i>Journal of Chromatography A</i> , 2016, 1470, 50-58.	1.8	19
9	Exploring the Structural Properties of Positively Charged Peptide Dendrimers. <i>Journal of Physical Chemistry B</i> , 2016, 120, 11323-11330.	1.2	16
10	Constant-pH MD Simulations Portray the Protonation and Structural Behavior of Four Decapeptides Designed to Coordinate Cu^{2+} . <i>Journal of Physical Chemistry B</i> , 2016, 120, 1080-1091.	1.2	1
11	Coupling between protonation and conformation in cytochrome <i>c</i> oxidase: Insights from constant-pH MD simulations. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2016, 1857, 759-771.	0.5	20
12	The anti-inflammatory action of the analgesic kyotorphin neuropeptide derivatives: insights of a lipid-mediated mechanism. <i>Amino Acids</i> , 2016, 48, 307-318.	1.2	7
13	Photonic Activation of Plasminogen Induced by Low Dose UVB. <i>PLoS ONE</i> , 2015, 10, e0116737.	1.1	12
14	Constant-pH MD Simulations of an Oleic Acid Bilayer. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 2367-2376.	2.3	30
15	Constant-pH Molecular Dynamics Study of Kyotorphin in an Explicit Bilayer. <i>Biophysical Journal</i> , 2015, 108, 2282-2290.	0.2	17
16	The Effect of Membrane Environment on Surfactant Protein C Stability Studied by Constant-pH Molecular Dynamics. <i>Journal of Chemical Information and Modeling</i> , 2015, 55, 2206-2217.	2.5	13
17	Constant-pH MD Simulations of DMPA/DMPC Lipid Bilayers. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 5973-5979.	2.3	36
18	Exploring O ₂ Diffusion in A-Type Cytochrome <i>c</i> Oxidases: Molecular Dynamics Simulations Uncover Two Alternative Channels towards the Binuclear Site. <i>PLoS Computational Biology</i> , 2014, 10, e1004010.	1.5	22

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19	Treatment of Ionic Strength in Biomolecular Simulations of Charged Lipid Bilayers. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 5483-5492.	2.3	23
20	Protonation of DMPC in a Bilayer Environment Using a Linear Response Approximation. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 2176-2184.	2.3	29
21	Modeling the partitioning of amino acids in aqueous two phase systems. <i>Journal of Chromatography A</i> , 2014, 1329, 52-60.	1.8	17
22	The Pathway for O ₂ Diffusion inside CotA Laccase and Possible Implications on the Multicopper Oxidases Family. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 3525-3531.	2.3	15
23	A molecular perspective on nonaqueous biocatalysis: contributions from simulation studies. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 13723.	1.3	41
24	Structural Effects of pH and Deacylation on Surfactant Protein C in an Organic Solvent Mixture: A Constant-pH MD Study. <i>Journal of Chemical Information and Modeling</i> , 2013, 53, 2979-2989.	2.5	26
25	Unraveling the Conformational Determinants of Peptide Dendrimers Using Molecular Dynamics Simulations. <i>Macromolecules</i> , 2013, 46, 9427-9436.	2.2	7
26	Predicting the Thermodynamics and Kinetics of Helix Formation in a Cyclic Peptide Model. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 5148-5157.	2.3	28
27	Structural Determinants for the Membrane Insertion of the Transmembrane Peptide of Hemagglutinin from Influenza Virus. <i>Journal of Chemical Information and Modeling</i> , 2012, 52, 3001-3012.	2.5	9
28	Interaction of Counterions with Subtilisin in Acetonitrile: Insights from Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2012, 116, 5838-5848.	1.2	7
29	Reversibility of Prion Misfolding: Insights from Constant-pH Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2012, 116, 8812-8821.	1.2	41
30	Analyzing the Molecular Basis of Enzyme Stability in Ethanol/Water Mixtures Using Molecular Dynamics Simulations. <i>Journal of Chemical Information and Modeling</i> , 2012, 52, 465-473.	2.5	41
31	Water Encapsulation in a Polyoxapolyaza Macrobicyclic Compound. <i>Journal of Organic Chemistry</i> , 2012, 77, 6816-6824.	1.7	7
32	Simulation of multihaem cytochromes. <i>FEBS Letters</i> , 2012, 586, 510-518.	1.3	14
33	Unfolding the Conformational Behavior of Peptide Dendrimers: Insights from Molecular Dynamics Simulations. <i>Journal of the American Chemical Society</i> , 2011, 133, 5042-5052.	6.6	34
34	Conformational changes induced by ATP γ C hydrolysis in an ABC transporter: A molecular dynamics study of the Sav1866 exporter. <i>Proteins: Structure, Function and Bioinformatics</i> , 2011, 79, 1977-1990.	1.5	59
35	Is the prediction of p <i>K_a</i> values by constant-pH molecular dynamics being hindered by inherited problems?. <i>Proteins: Structure, Function and Bioinformatics</i> , 2011, 79, 3437-3447.	1.5	60
36	Progress in the prediction of p <i>K_a</i> values in proteins. <i>Proteins: Structure, Function and Bioinformatics</i> , 2011, 79, 3260-3275.	1.5	229

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37	Structural determinants of ligand imprinting: A molecular dynamics simulation study of subtilisin in aqueous and apolar solvents. <i>Protein Science</i> , 2011, 20, 379-386.	3.1	13
38	Structural consequences of ATP hydrolysis on the ABC transporter NBD dimer: Molecular dynamics studies of HlyB. <i>Protein Science</i> , 2011, 20, 1220-1230.	3.1	43
39	Inter-domain Communication Mechanisms in an ABC Importer: A Molecular Dynamics Study of the MalFGK2E Complex. <i>PLoS Computational Biology</i> , 2011, 7, e1002128.	1.5	28
40	Membrane-Induced Conformational Changes of Kyotorphin Revealed by Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2010, 114, 11659-11667.	1.2	21
41	Constant-pH Molecular Dynamics Simulations Reveal a β^2 -Rich Form of the Human Prion Protein. <i>Journal of Physical Chemistry B</i> , 2010, 114, 12692-12700.	1.2	83
42	Insights into the Molecular Mechanism of an ABC Transporter: Conformational Changes in the NBD Dimer of MJ0796. <i>Journal of Physical Chemistry B</i> , 2010, 114, 5486-5496.	1.2	31
43	Dioxygen and nitric oxide pathways and affinity to the catalytic site of rubredoxin:oxygen oxidoreductase from <i>Desulfovibrio gigas</i> . <i>Journal of Biological Inorganic Chemistry</i> , 2009, 14, 853-862.	1.1	18
44	Molecular Dynamics at Constant pH and Reduction Potential: Application to Cytochrome <i>c</i> ₃ . <i>Journal of the American Chemical Society</i> , 2009, 131, 12586-12594.	6.6	59
45	Conformational Analysis in a Multidimensional Energy Landscape: Study of an Arginylglutamate Repeat. <i>Journal of Physical Chemistry B</i> , 2009, 113, 15989-16001.	1.2	45
46	Proton pathways in a [NiFe] hydrogenase: A theoretical study. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 70, 1010-1022.	1.5	63
47	Conformational and dynamics changes induced by bile acids binding to chicken liver bile acid binding protein. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 71, 1889-1898.	1.5	18
48	Acidic range titration of HEWL using a constant-pH molecular dynamics method. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 72, 289-298.	1.5	73
49	Characterization of the Protein Unfolding Processes Induced by Urea and Temperature. <i>Biophysical Journal</i> , 2008, 94, 2241-2251.	0.2	85
50	Redox Properties of <i>Thermus thermophilus</i> ba3: Different Electron-Proton Coupling in Oxygen Reductases?. <i>Biophysical Journal</i> , 2008, 94, 2434-2441.	0.2	23
51	Thermodynamic Redox Behavior of the Heme Centers in A-Type Heme-Copper Oxygen Reductases: Comparison between the Two Subfamilies. <i>Biophysical Journal</i> , 2008, 95, 4448-4455.	0.2	6
52	Thermodynamic Redox Behavior of the Heme Centers of <i>Cbb</i> ₃ Heme-Copper Oxygen Reductase from <i>Bradyrhizobium japonicum</i> . <i>Biochemistry</i> , 2007, 46, 13245-13253.	1.2	18
53	The pH-Dependent Conformational States of Kyotorphin: A Constant-pH Molecular Dynamics Study. <i>Biophysical Journal</i> , 2007, 92, 1836-1845.	0.2	49
54	The lactate dehydrogenases encoded by the <i>ldh</i> and <i>ldhB</i> genes in <i>Lactococcus lactis</i> exhibit distinct regulation and catalytic properties: comparative modeling to probe the molecular basis. <i>FEBS Journal</i> , 2007, 274, 5924-5936.	2.2	39

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55	Constant-pH Molecular Dynamics with Ionic Strength Effects: Protonation Conformation Coupling in Decalysine. <i>Journal of Physical Chemistry B</i> , 2006, 110, 2927-2933.	1.2	114
56	Conformational and Orientational Guidance of the Analgesic Dipeptide Kyotorphin Induced by Lipidic Membranes: Putative Correlation toward Receptor Docking. <i>Journal of Physical Chemistry B</i> , 2006, 110, 3385-3394.	1.2	17
57	Pathways of H ₂ toward the Active Site of [NiFe]-Hydrogenase. <i>Biophysical Journal</i> , 2006, 91, 2035-2045.	0.2	66
58	Parametrization of 1-Butyl-3-methylimidazolium Hexafluorophosphate/Nitrate Ionic Liquid for the GROMOS Force Field. <i>Journal of Physical Chemistry B</i> , 2006, 110, 14444-14451.	1.2	131
59	Natural Domain Design: Enhanced Thermal Stability of a Zinc-Lacking Ferredoxin Isoform Shows that a Hydrophobic Core Efficiently Replaces the Structural Metal Site. <i>Biochemistry</i> , 2006, 45, 10376-10384.	1.2	12
60	Electric-Field-Induced Redox Potential Shifts of Tetraheme Cytochromes c ₃ Immobilized on Self-Assembled Monolayers: Surface-Enhanced Resonance Raman Spectroscopy and Simulation Studies. <i>Biophysical Journal</i> , 2005, 88, 4188-4199.	0.2	63
61	On the Use of Different Dielectric Constants for Computing Individual and Pairwise Terms in Poisson-Boltzmann Studies of Protein Ionization Equilibrium. <i>Journal of Physical Chemistry B</i> , 2005, 109, 14691-14706.	1.2	91
62	Water Dependent Properties of Cutinase in Nonaqueous Solvents: A Computational Study of Enantioselectivity. <i>Biophysical Journal</i> , 2005, 89, 999-1008.	0.2	38
63	Reorganization and Conformational Changes in the Reduction of Tetraheme Cytochromes. <i>Biophysical Journal</i> , 2005, 89, 3919-3930.	0.2	22
64	Investigation of protonatable residues in <i>Rhodothermus marinus</i> caa 3 haem-copper oxygen reductase: comparison with <i>Paracoccus denitrificans</i> aa 3 haem-copper oxygen reductase. <i>Journal of Biological Inorganic Chemistry</i> , 2004, 9, 124-134.	1.1	21
65	Reorganization in apo- and holo-lactoglobulin upon protonation of Glu89: Molecular dynamics and pK _a calculations. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004, 54, 744-758.	1.5	50
66	Theoretical Identification of Proton Channels in the Quinol Oxidase aa ₃ from <i>Acidianus ambivalens</i> . <i>Biophysical Journal</i> , 2004, 87, 4316-4325.	0.2	8
67	Modeling Electron Transfer Thermodynamics in Protein Complexes: Interaction between Two Cytochromes c ₃ . <i>Biophysical Journal</i> , 2004, 86, 2773-2785.	0.2	23
68	Molecular basis for redox-Bohr and cooperative effects in cytochrome c ₃ from <i>Desulfovibrio desulfuricans</i> ATCC 27774: Crystallographic and modeling studies of oxidized and reduced high-resolution structures at pH 7.6. <i>Proteins: Structure, Function and Bioinformatics</i> , 2003, 54, 135-152.	1.5	20
69	Protein Structure and Dynamics in Nonaqueous Solvents: Insights from Molecular Dynamics Simulation Studies. <i>Biophysical Journal</i> , 2003, 84, 1628-1641.	0.2	110
70	Redox-Bohr and Other Cooperativity Effects in the Nine-heme Cytochrome c from <i>Desulfovibrio desulfuricans</i> ATCC 27774. <i>Journal of Biological Chemistry</i> , 2003, 278, 36455-36469.	1.6	25
71	Comment on "Explicit-solvent molecular dynamics simulation at constant pH: Methodology and application to small amines". <i>J. Chem. Phys.</i> 114, 9706 (2001)]. <i>Journal of Chemical Physics</i> , 2002, 116, 7766-7768.	1.2	24
72	Constant-pH molecular dynamics using stochastic titration. <i>Journal of Chemical Physics</i> , 2002, 117, 4184-4200.	1.2	283

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73	Studies of the reduction and protonation behavior of tetraheme cytochromes using atomic detail. <i>Journal of Biological Inorganic Chemistry</i> , 2002, 7, 200-216.	1.1	61
74	Some Theoretical and Computational Aspects of the Inclusion of Proton Isomerism in the Protonation Equilibrium of Proteins. <i>Journal of Physical Chemistry B</i> , 2001, 105, 293-309.	1.2	122
75	Implicit solvation in the self-consistent mean field theory method: sidechain modelling and prediction of folding free energies of protein mutants. <i>Journal of Computer-Aided Molecular Design</i> , 2001, 15, 721-740.	1.3	16
76	Conformational Component in the Coupled Transfer of Multiple Electrons and Protons in a Monomeric Tetraheme Cytochrome. <i>Journal of Biological Chemistry</i> , 2001, 276, 44044-44051.	1.6	39
77	Comparative redox and pK _a calculations on cytochrome c 3 from several <i>Desulfovibrio</i> species using continuum electrostatic methods. <i>Journal of Biological Inorganic Chemistry</i> , 1999, 4, 73-86.	1.1	37
78	Improved modeling of side-chains in proteins with rotamer-based methods: A flexible rotamer model. , 1999, 37, 530-543.		68
79	Simulation of Electron-Proton Coupling with a Monte Carlo Method: Application to Cytochrome c3 Using Continuum Electrostatics. <i>Biophysical Journal</i> , 1999, 76, 2978-2998.	0.2	105
80	The Origin of Trypsin: Evidence for Multiple Gene Duplications in Trypsins. <i>Journal of Molecular Evolution</i> , 1998, 47, 353-362.	0.8	18
81	A Study of the contribution of changes in the cerebral blood volume to the haemodynamic response to anoxia in rat brain. , 1997, 10, 59-66.		5
82	Simulation of protein conformational freedom as a function of pH: constant-pH molecular dynamics using implicit titration. <i>Proteins: Structure, Function and Bioinformatics</i> , 1997, 27, 523-544.	1.5	162
83	Predicting the partition coefficients of a recombinant cutinase in polyethylene glycol/phosphate aqueous two-phase systems. , 1997, 56, 248-257.		16
84	Simulation of protein conformational freedom as a function of pH: constant-pH molecular dynamics using implicit titration. , 1997, 27, 523.		4
85	A Study of the Contribution of Changes in the Cerebral Blood Volume to the Haemodynamic Response to Anoxia in Rat Brain. <i>NMR in Biomedicine</i> , 1996, 9, 233-240.	1.6	5
86	Protein Electrostatics. <i>Biotechnology Annual Review</i> , 1996, 2, 315-372.	2.1	27
87	Cerebrovascular changes in rats during ischemia and reperfusion: A comparison of bold and first pass bolus tracking techniques. <i>Magnetic Resonance in Medicine</i> , 1996, 35, 489-496.	1.9	18
88	Electrostatic studies of carbohydrate active enzymes. <i>Progress in Biotechnology</i> , 1995, 10, 181-204.	0.2	1
89	Lipases and esterases: a review of their sequences, structure and evolution. <i>Biotechnology Annual Review</i> , 1995, 1, 315-371.	2.1	65
90	Improving protein extraction yield in reversed micellar systems through surface charge engineering. <i>Biotechnology and Bioengineering</i> , 1994, 44, 773-780.	1.7	15

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91	The blind watchmaker and rational protein engineering. Journal of Biotechnology, 1994, 36, 185-220.	1.9	23