

Isabella Daidone

List of Publications by Year in descending order

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85
papers

2,208
citations

230014

27
h-index

299063

42
g-index

87
all docs

87
docs citations

87
times ranked

2743
citing authors

#	ARTICLE	IF	CITATIONS
1	A general statistical mechanical model for fluid system thermodynamics: Application to sub- and super-critical water. <i>Journal of Chemical Physics</i> , 2022, 156, 044506.	1.2	3
2	Hit Expansion of a Noncovalent SARS-CoV-2 Main Protease Inhibitor. <i>ACS Pharmacology and Translational Science</i> , 2022, 5, 255-265.	2.5	17
3	Low- and high-density forms of liquid water revealed by a new medium-range order descriptor. <i>Journal of Molecular Liquids</i> , 2022, 355, 118922.	2.3	11
4	High density water clusters observed at high concentrations of the macromolecular crowder PEG400. <i>Journal of Molecular Liquids</i> , 2022, 357, 119038.	2.3	2
5	Photophysical and Computational Insights into Ag(I) Complexation of Porphyrinic Covalent Cages Equipped with Triazoles-Incorporating Linkers. <i>Journal of Physical Chemistry B</i> , 2022, 126, 3450-3459.	1.2	0
6	Evidence for a high pK _a of an aspartic acid residue in the active site of CALB by a fully atomistic multiscale approach. <i>Journal of Biomolecular Structure and Dynamics</i> , 2022, , 1-8.	2.0	2
7	A computational insight into the relationship between side chain IR line shapes and local environment in fibril-like structures. <i>Journal of Chemical Physics</i> , 2021, 154, 084105.	1.2	1
8	Tuning Proton Transfer Thermodynamics in SARS-CoV-2 Main Protease: Implications for Catalysis and Inhibitor Design. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 4195-4202.	2.1	19
9	High Water Density at Non-Ice-Binding Surfaces Contributes to the Hyperactivity of Antifreeze Proteins. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 8777-8783.	2.1	11
10	Segregation on the nanoscale coupled to liquid water polymorphism in supercooled aqueous ionic-liquid solution. <i>Journal of Chemical Physics</i> , 2021, 155, 104502.	1.2	3
11	Inhibitor binding influences the protonation states of histidines in SARS-CoV-2 main protease. <i>Chemical Science</i> , 2021, 12, 1513-1527.	3.7	47
12	Allosteric Control of Naphthalene Diimide Encapsulation and Electron Transfer in Porphyrin Containers: Photophysical Studies and Molecular Dynamics Simulation. <i>Chemistry - A European Journal</i> , 2020, 26, 17514-17524.	1.7	7
13	Supercomputer-Based Ensemble Docking Drug Discovery Pipeline with Application to Covid-19. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 5832-5852.	2.5	134
14	Fully Atomistic Multiscale Approach for pK _a Prediction. <i>Journal of Physical Chemistry B</i> , 2020, 124, 4712-4722.	1.2	10
15	Length-scale dependence of protein hydration-shell density. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 7340-7347.	1.3	5
16	Modeling amino-acid side chain infrared spectra: the case of carboxylic residues. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 3008-3016.	1.3	10
17	Cooperative protein-solvent tuning of proton transfer energetics: carbonic anhydrase as a case study. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 19975-19981.	1.3	3
18	Hydration Shell of Antifreeze Proteins: Unveiling the Role of Non-Ice-Binding Surfaces. <i>Journal of Physical Chemistry B</i> , 2019, 123, 6474-6480.	1.2	20

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19	Interpretation of Experimental Soret Bands of Porphyrins in Flexible Covalent Cages and in Their Related Ag(I) Fixed Complexes. <i>Journal of Physical Chemistry C</i> , 2019, 123, 13094-13103.	1.5	17
20	Evidence of a Thermodynamic Ramp for Hole Hopping to Protect a Redox Enzyme from Oxidative Damage. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 1450-1456.	2.1	10
21	Tip-Enhanced Infrared Difference-Nanospectroscopy of the Proton Pump Activity of Bacteriorhodopsin in Single Purple Membrane Patches. <i>Nano Letters</i> , 2019, 19, 3104-3114.	4.5	36
22	Difference mid-IR nanospectroscopy on individual patches of purple membranes: the proton pump activity of bacteriorhodopsin at the nanoscale. , 2019, , .		0
23	On the nature of solvatochromic effect: The riboflavin absorption spectrum as a case study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 192, 451-457.	2.0	8
24	A quantitative connection of experimental and simulated folding landscapes by vibrational spectroscopy. <i>Chemical Science</i> , 2018, 9, 9002-9011.	3.7	20
25	Extending the perturbed matrix method beyond the dipolar approximation: comparison of different levels of theory. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 24369-24378.	1.3	49
26	Tyrosine absorption spectroscopy: Backbone protonation effects on the side chain electronic properties. <i>Journal of Computational Chemistry</i> , 2018, 39, 1747-1756.	1.5	17
27	Theoretical modeling of the absorption spectrum of aqueous riboflavin. <i>Chemical Physics Letters</i> , 2017, 669, 119-124.	1.2	37
28	Computational evidence support the hypothesis of neuroglobin also acting as an electron transfer species. <i>Journal of Biological Inorganic Chemistry</i> , 2017, 22, 615-623.	1.1	24
29	Computational investigation of the electron transfer complex between neuroglobin and cytochrome c. <i>Supramolecular Chemistry</i> , 2017, 29, 846-852.	1.5	2
30	Parallel folding pathways of Fip35 WW domain explained by infrared spectra and their computer simulation. <i>FEBS Letters</i> , 2017, 591, 3265-3275.	1.3	12
31	Alternative Electron-Transfer Channels Ensure Ultrafast Deactivation of Light-Induced Excited States in Riboflavin Binding Protein. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3321-3327.	2.1	21
32	Photoexcitation and relaxation kinetics of molecular systems in solution: towards a complete in silico model. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 28919-28931.	1.3	19
33	Conformational Change in the Mechanism of Inclusion of Ketoprofen in β -Cyclodextrin: NMR Spectroscopy, Ab Initio Calculations, Molecular Dynamics Simulations, and Photoreactivity. <i>Journal of Physical Chemistry B</i> , 2016, 120, 10668-10678.	1.2	15
34	Theoretical-computational characterization of the temperature-dependent folding thermodynamics of a β -hairpin peptide. <i>Chemical Physics Letters</i> , 2016, 659, 247-251.	1.2	1
35	Extending the essential dynamics analysis to investigate molecular properties: application to the redox potential of proteins. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 18450-18459.	1.3	18
36	β -Structure within the Denatured State of the Helical Protein Domain BBL. <i>Journal of Molecular Biology</i> , 2015, 427, 3166-3176.	2.0	6

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37	Monitoring the Folding Kinetics of a \hat{I}^2 -Hairpin by Time-Resolved IR Spectroscopy in Silico. <i>Journal of Physical Chemistry B</i> , 2015, 119, 4849-4856.	1.2	11
38	A few key residues determine the high redox potential shift in azurin mutants. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 11003-11013.	1.5	35
39	How the Reorganization Free Energy Affects the Reduction Potential of Structurally Homologous Cytochromes. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1534-1540.	2.1	19
40	Surface Packing Determines the Redox Potential Shift of Cytochrome c Adsorbed on Gold. <i>Journal of the American Chemical Society</i> , 2014, 136, 12929-12937.	6.6	39
41	Theoretical-computational modeling of photo-induced charge separation spectra and charge recombination kinetics in solution. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 20624-20638.	1.3	15
42	Unambiguous Assignment of Reduction Potentials in Diheme Cytochromes. <i>Journal of Physical Chemistry B</i> , 2014, 118, 7554-7560.	1.2	20
43	Structure and solvation properties of aqueous sulfobetaine micelles in the presence of organic spin probes: a Molecular Dynamics simulation study. <i>Structural Chemistry</i> , 2013, 24, 945-953.	1.0	9
44	Simulation of the Amide I Infrared Spectrum in Photoinduced Peptide Folding/Unfolding Transitions. <i>Journal of Physical Chemistry B</i> , 2013, 117, 12383-12390.	1.2	17
45	Toward a Realistic Modeling of the Photophysics of Molecular Building Blocks for Energy Harvesting: The Charge-Transfer State in 4,7-Dithien-2-yl-2,1,3-benzothiadiazole As a Case Study. <i>Journal of Physical Chemistry C</i> , 2013, 117, 13785-13797.	1.5	13
46	Modeling triplet flavin-indole electron transfer and interradical dipolar interaction: a perturbative approach. <i>Theoretical Chemistry Accounts</i> , 2013, 132, 1.	0.5	14
47	A general statistical mechanical approach for modeling redox thermodynamics: the reaction and reorganization free energies. <i>RSC Advances</i> , 2013, 3, 19657.	1.7	16
48	Structural and dynamical properties of KTS ϵ -disintegrins: A comparison between Obtustatin and Lebestatin. <i>Biopolymers</i> , 2013, 99, 47-54.	1.2	12
49	On the structural affinity of macromolecules with different biological properties: Molecular dynamics simulations of a series of TEM-1 mutants. <i>Biochemical and Biophysical Research Communications</i> , 2013, 436, 666-671.	1.0	3
50	A Theoretical Reappraisal of Polylysine in the Investigation of Secondary Structure Sensitivity of Infrared Spectra. <i>Journal of Physical Chemistry B</i> , 2012, 116, 3353-3360.	1.2	19
51	A general theoretical model for electron transfer reactions in complex systems. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 1360-1370.	1.3	35
52	Alteration of Water Structure by Peptide Clusters Revealed by Neutron Scattering in the Small-Angle Region (below 1 \AA^{-1}). <i>Biophysical Journal</i> , 2012, 103, 1518-1524.	0.2	5
53	Essential dynamics: foundation and applications. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2012, 2, 762-770.	6.2	99
54	The Reversible Opening of Water Channels in Cytochrome <i>c</i> Modulates the Heme Iron Reduction Potential. <i>Journal of the American Chemical Society</i> , 2012, 134, 13670-13678.	6.6	71

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55	Configurational subdiffusion of peptides: A network study. <i>Physical Review E</i> , 2011, 83, 021902.	0.8	12
56	New Insight into the IR-Spectra/Structure Relationship in Amyloid Fibrils: A Theoretical Study on a Prion Peptide. <i>Journal of the American Chemical Society</i> , 2011, 133, 11414-11417.	6.6	28
57	Molecular Origin of Gerstmann-StrÄussler-Scheinker Syndrome: Insight from Computer Simulation of an Amyloidogenic Prion Peptide. <i>Biophysical Journal</i> , 2011, 100, 3000-3007.	0.2	11
58	Analysis of Infrared Spectra of Î²-Hairpin Peptides As Derived from Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2011, 115, 11872-11878.	1.2	11
59	Conformational study of bovine lactoferricin in membrane-micking conditions by molecular dynamics simulation and circular dichroism. <i>BioMetals</i> , 2011, 24, 259-268.	1.8	10
60	Modeling quantum vibrational excitations in condensed-phase molecular systems. <i>Theoretical Chemistry Accounts</i> , 2011, 129, 31-43.	0.5	26
61	Dynamical fingerprints for probing individual relaxation processes in biomolecular dynamics with simulations and kinetic experiments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 4822-4827.	3.3	105
62	Structured Pathway across the Transition State for Peptide Folding Revealed by Molecular Dynamics Simulations. <i>PLoS Computational Biology</i> , 2011, 7, e1002137.	1.5	7
63	Theoretical-computational modelling of infrared spectra in peptides and proteins: a new frontier for combined theoretical-experimental investigations. <i>Current Opinion in Structural Biology</i> , 2010, 20, 155-161.	2.6	35
64	On the origin of IR spectral changes upon protein folding. <i>Chemical Physics Letters</i> , 2010, 488, 213-218.	1.2	30
65	Hydrogen-Bond Driven Loop-Closure Kinetics in Unfolded Polypeptide Chains. <i>PLoS Computational Biology</i> , 2010, 6, e1000645.	1.5	44
66	Mechanism of DNA Recognition by the Restriction Enzyme EcoRV. <i>Journal of Molecular Biology</i> , 2010, 401, 415-432.	2.0	24
67	Common Folding Mechanism of a Î²-Hairpin Peptide via Non-native Turn Formation Revealed by Unbiased Molecular Dynamics Simulations. <i>Journal of the American Chemical Society</i> , 2009, 131, 18147-18152.	6.6	36
68	Instantaneous Normal Modes and the Protein Glass Transition. <i>Biophysical Journal</i> , 2009, 96, 476-484.	0.2	12
69	Charge-Based Interactions between Peptides Observed as the Dominant Force for Association in Aqueous Solution. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 9059-9062.	7.2	39
70	Subdiffusion in Peptides Originates from the Fractal-Like Structure of Configuration Space. <i>Physical Review Letters</i> , 2008, 100, 188103.	2.9	63
71	Solvent Electrostriction-Driven Peptide Folding Revealed by Quasi-Gaussian Entropy Theory and Molecular Dynamics Simulation. <i>Journal of Physical Chemistry B</i> , 2008, 112, 11155-11163.	1.2	9
72	Protein Folding Pathways Revealed by Essential Dynamics Sampling. <i>Journal of Chemical Theory and Computation</i> , 2008, 4, 1940-1948.	2.3	13

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73	Dehydration-driven solvent exposure of hydrophobic surfaces as a driving force in peptide folding. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 15230-15235.	3.3	72
74	Statistical mechanical modelling of chemical reactions in complex systems: the kinetics of the Haem carbon monoxide binding/unbinding reaction in Myoglobin. Theoretical Chemistry Accounts, 2007, 117, 637-647.	0.5	28
75	Theoretical modeling of chemical reactions in complex environments: the intramolecular proton transfer in aqueous malonaldehyde. Journal of Physical Organic Chemistry, 2006, 19, 518-530.	0.9	28
76	Aggregation of small peptides studied by molecular dynamics simulations. Proteins: Structure, Function and Bioinformatics, 2006, 65, 914-921.	1.5	19
77	Molecular dynamics simulation of the aggregation of the core-recognition motif of the islet amyloid polypeptide in explicit water. Proteins: Structure, Function and Bioinformatics, 2005, 59, 519-527.	1.5	49
78	Thermodynamic and kinetic characterization of a β^2 -hairpin peptide in solution: An extended phase space sampling by molecular dynamics simulations in explicit water. Proteins: Structure, Function and Bioinformatics, 2005, 59, 510-518.	1.5	49
79	Theoretical Characterization of β^1 -Helix and β^2 -Hairpin Folding Kinetics. Journal of the American Chemical Society, 2005, 127, 14825-14832.	6.6	43
80	Molecular Dynamics Simulation of Sperm Whale Myoglobin: Effects of Mutations and Trapped CO on the Structure and Dynamics of Cavities. Biophysical Journal, 2005, 89, 465-474.	0.2	93
81	β^2 -Hairpin conformation of fibrillogenic peptides: Structure and β^1 - β^2 transition mechanism revealed by molecular dynamics simulations. Proteins: Structure, Function and Bioinformatics, 2004, 57, 198-204.	1.5	85
82	A molecular dynamics study of acylphosphatase in aggregation-promoting conditions: The influence of trifluoroethanol/water solvent. Biopolymers, 2004, 75, 491-496.	1.2	4
83	Investigating the Accessibility of the Closed Domain Conformation of Citrate Synthase using Essential Dynamics Sampling. Journal of Molecular Biology, 2004, 339, 515-525.	2.0	35
84	Molecular Dynamics Simulation of Protein Folding by Essential Dynamics Sampling: Folding Landscape of Horse Heart Cytochrome c. Biophysical Journal, 2003, 85, 2865-2871.	0.2	67
85	Selective Excitation of Native Fluctuations during Thermal Unfolding Simulations: Horse Heart Cytochrome c as a Case Study. Biophysical Journal, 2003, 84, 1876-1883.	0.2	45