

# Marco D'Abramo

## List of Publications by Year in descending order

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85  
papers

1,594  
citations

279487

23  
h-index

344852

36  
g-index

88  
all docs

88  
docs citations

88  
times ranked

1974  
citing authors

#	ARTICLE	IF	CITATIONS
1	MoDEL (Molecular Dynamics Extended Library): A Database of Atomistic Molecular Dynamics Trajectories. <i>Structure</i> , 2010, 18, 1399-1409.	1.6	123
2	FlexServ: an integrated tool for the analysis of protein flexibility. <i>Bioinformatics</i> , 2009, 25, 1709-1710.	1.8	72
3	Theoretical characterization of electronic states in interacting chemical systems. <i>Journal of Chemical Physics</i> , 2009, 130, 084109.	1.2	66
4	Structural Characterization of Protein-Protein Complexes by Integrating Computational Docking with Small-angle Scattering Data. <i>Journal of Molecular Biology</i> , 2010, 403, 217-230.	2.0	64
5	Molecular basis of engineered meganuclease targeting of the endogenous human RAG1 locus. <i>Nucleic Acids Research</i> , 2011, 39, 729-743.	6.5	63
6	Comparing the Efficiency of Biased and Unbiased Molecular Dynamics in Reconstructing the Free Energy Landscape of Met-Enkephalin. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 3640-3646.	2.3	51
7	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
8	Electronic properties of formaldehyde in water: a theoretical study. <i>Chemical Physics Letters</i> , 2003, 381, 187-193.	1.2	46
9	On the Nature of DNA Hyperchromic Effect. <i>Journal of Physical Chemistry B</i> , 2013, 117, 8697-8704.	1.2	44
10	Theoretical Characterization of $\alpha$ -Helix and $\beta$ -Hairpin Folding Kinetics. <i>Journal of the American Chemical Society</i> , 2005, 127, 14825-14832.	6.6	43
11	Theoretical modeling of UV-Vis absorption and emission spectra in liquid state systems including vibrational and conformational effects: Explicit treatment of the vibronic transitions. <i>Journal of Chemical Physics</i> , 2014, 140, 164104.	1.2	42
12	Theoretical Characterization of the Dynamical Behavior and Transport Properties of $\alpha$ -Peptide Nanotubes in Solution. <i>Journal of the American Chemical Society</i> , 2009, 131, 15678-15686.	6.6	41
13	The p53 tetramer shows an induced-fit interaction of the C-terminal domain with the DNA-binding domain. <i>Oncogene</i> , 2016, 35, 3272-3281.	2.6	40
14	Theoretical modeling of the valence UV spectra of 1,2,3-triazine and uracil in solution. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 1385.	1.3	39
15	Mixed Quantum-Classical Methods for Molecular Simulations of Biochemical Reactions With Microwave Fields: The Case Study of Myoglobin. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2008, 56, 2511-2519.	2.9	36
16	In silico characterization of protein partial molecular volumes and hydration shells. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 31270-31277.	1.3	35
17	Theoretical modeling of vibroelectronic quantum states in complex molecular systems: Solvated carbon monoxide, a test case. <i>Journal of Chemical Physics</i> , 2005, 122, 124506.	1.2	34
18	Theoretical Characterisation of the Electronic Excitation in Liquid Water. <i>ChemPhysChem</i> , 2005, 6, 53-58.	1.0	31

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19	Theoretical modeling of chemical reactions in complex environments: the intramolecular proton transfer in aqueous malonaldehyde. <i>Journal of Physical Organic Chemistry</i> , 2006, 19, 518-530.	0.9	28
20	Conformational behavior of temporin A and temporin L in aqueous solution: A computational/experimental study. <i>Biopolymers</i> , 2006, 81, 215-224.	1.2	28
21	Statistical mechanical modelling of chemical reactions in complex systems: the kinetics of the Haem carbon monoxide binding/unbinding reaction in Myoglobin. <i>Theoretical Chemistry Accounts</i> , 2007, 117, 637-647.	0.5	28
22	Molecular dynamics of the full-length p53 monomer. <i>Cell Cycle</i> , 2013, 12, 3098-3108.	1.3	27
23	Non-specific protein-DNA interactions control I-Crel target binding and cleavage. <i>Nucleic Acids Research</i> , 2012, 40, 6936-6945.	6.5	24
24	Theoretical characterization of temperature and density dependence of liquid water electronic excitation energy: Comparison with recent experimental data. <i>Journal of Chemical Physics</i> , 2008, 128, 021103.	1.2	22
25	Exploiting Reaction-Diffusion Conditions to Trigger Pathway Complexity in the Growth of a MOF. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 15920-15927.	7.2	19
26	Statistical Mechanics and Thermodynamics of Simulated Ionic Solutions. <i>Journal of Physical Chemistry B</i> , 2002, 106, 11843-11848.	1.2	18
27	Characterization of the catalytic flexible loop in the dihydroorotase domain of the human multi-enzymatic protein CAD. <i>Journal of Biological Chemistry</i> , 2018, 293, 18903-18913.	1.6	18
28	Molecular Dynamics Simulations Reveal Canonical Conformations in Different pMHC/TCR Interactions. <i>Cells</i> , 2020, 9, 942.	1.8	18
29	Kinetics of Carbon Monoxide Migration and Binding in Solvated Myoglobin as Revealed by Molecular Dynamics Simulations and Quantum Mechanical Calculations. <i>Journal of Physical Chemistry B</i> , 2009, 113, 16346-16353.	1.2	17
30	Equilibrium between 5- and 6-Fold Coordination in the First Hydration Shell of Cu(II). <i>Journal of Physical Chemistry A</i> , 2016, 120, 3958-3965.	1.1	17
31	Quantitative Characterization of Binding Pockets and Binding Complementarity by Means of Zernike Descriptors. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 1390-1398.	2.5	17
32	Conformational Selection versus Induced Fit in Kinases: The Case of PI3K $\beta$ . <i>Angewandte Chemie - International Edition</i> , 2012, 51, 642-646.	7.2	16
33	The self-association equilibria of doxorubicin at high concentration and ionic strength characterized by fluorescence spectroscopy and molecular dynamics simulations. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 577, 517-522.	2.3	16
34	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
35	Photoinduced electron transfer in a dichromophoric peptide: a numerical experiment. <i>Theoretical Chemistry Accounts</i> , 2016, 135, 1.	0.5	14
36	Molecular mechanisms of activation in CDK2. <i>Journal of Biomolecular Structure and Dynamics</i> , 2014, 32, 1929-1935.	2.0	13

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37	Theoretical Characterization of the Reduction Potentials of Nucleic Acids in Solution. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 1301-1307.	2.3	13
38	Theoretical study of intramolecular charge transfer in $\pi$ -conjugated oligomers. <i>Chemical Physics Letters</i> , 2007, 434, 194-199.	1.2	12
39	Modeling conformational transitions in kinases by molecular dynamics simulations: achievements, difficulties, and open challenges. <i>Frontiers in Genetics</i> , 2014, 5, 128.	1.1	12
40	Theoretical calculation of the pyrene emission properties in different solvents. <i>Chemical Physics Letters</i> , 2015, 639, 17-22.	1.2	12
41	Understanding the indirect DNA read-out specificity of I-Crel Meganuclease. <i>Scientific Reports</i> , 2018, 8, 10286.	1.6	12
42	Role of the hydrophilic spacer of glucosylated amphiphiles included in liposome formulations in the recognition of Concanavalin A. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 136, 232-239.	2.5	11
43	A Stereochemically Driven Supramolecular Polymerisation. <i>Chemistry - A European Journal</i> , 2018, 24, 8195-8204.	1.7	11
44	Unusual Placement of an EBV Epitope into the Groove of the Ankylosing Spondylitis-Associated HLA-B27 Allele Allows CD8+ T Cell Activation. <i>Cells</i> , 2019, 8, 572.	1.8	11
45	Density discriminates between thermophilic and mesophilic proteins. <i>Journal of Biomolecular Structure and Dynamics</i> , 2018, 36, 3265-3273.	2.0	10
46	Molecular Dynamics Study of Naturally Existing Cavity Couplings in Proteins. <i>PLoS ONE</i> , 2015, 10, e0119978.	1.1	10
47	On the use of the quasi-Gaussian entropy theory in the study of simulated dilute solutions. <i>Journal of Chemical Physics</i> , 2004, 120, 5226-5234.	1.2	9
48	Kinetics and mechanistic study of competitive inhibition of thymidine phosphorylase by 5-fluorouracil derivatives. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 140, 121-127.	2.5	9
49	Key Players in I-Dmol Endonuclease Catalysis Revealed from Structure and Dynamics. <i>ACS Chemical Biology</i> , 2016, 11, 1401-1407.	1.6	9
50	Conformational Mobility and Efficiency in Supramolecular Catalysis. A Computational Approach to Evaluate the Performances of Enzyme Mimics. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 6004-6011.	1.2	9
51	Insights into the Interaction Mechanism of DTP3 with MKK7 by Using STD-NMR and Computational Approaches. <i>Biomedicines</i> , 2021, 9, 20.	1.4	9
52	Electric-driven membrane poration: A rationale for water role in the kinetics of pore formation. <i>Bioelectrochemistry</i> , 2022, 143, 107987.	2.4	9
53	Theoretical Modeling of Redox Potentials of Biomolecules. <i>Molecules</i> , 2022, 27, 1077.	1.7	9
54	Absorption behavior of doxorubicin hydrochloride in visible region in different environments: a combined experimental and computational study. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 12027-12035.	1.3	9

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55	Effects of local electric fields on the redox free energy of single stranded DNA. <i>Chemical Communications</i> , 2011, 47, 2646-2648.	2.2	8
56	Myoglobin as a Case Study for Molecular Simulations in the Presence of a Microwave Electromagnetic Field. , 2006, , .		7
57	Intramolecular charge transfer in $\pi$ -conjugated oligomers: a theoretical study on the effect of temperature and oxidation state. <i>Theoretical Chemistry Accounts</i> , 2008, 119, 469-476.	0.5	7
58	On the Use of low-resolution Data to Improve Structure Prediction of Proteins and Protein Complexes. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 3129-3137.	2.3	7
59	Charge transfer equilibria of aqueous single stranded DNA. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 10614.	1.3	7
60	Engineering a Nickase on the Homing Endonuclease I-Dmol Scaffold. <i>Journal of Biological Chemistry</i> , 2015, 290, 18534-18544.	1.6	7
61	Efficient and Accurate Modeling of Conformational Transitions in Proteins: The Case of c-Src Kinase. <i>Journal of Physical Chemistry B</i> , 2018, 122, 8853-8860.	1.2	7
62	DNA cleavage by endonuclease I-Dmol: a QM/MM study and comparison with experimental data provide indications on the environmental effects. <i>Theoretical Chemistry Accounts</i> , 2020, 139, 1.	0.5	7
63	Calculation of the optical rotatory dispersion of solvated alanine by means of the perturbed matrix method. <i>Chemical Physics Letters</i> , 2005, 402, 559-563.	1.2	6
64	Ground and excited electronic state thermodynamics of aqueous carbon monoxide: A theoretical study. <i>Journal of Chemical Physics</i> , 2005, 122, 124507.	1.2	6
65	On the activation and deactivation pathways of the Lck kinase domain: a computational study. <i>Journal of Computer-Aided Molecular Design</i> , 2019, 33, 597-603.	1.3	6
66	Point Mutations at a Key Site Alter the Cytochrome P450 OleP Structural Dynamics. <i>Biomolecules</i> , 2022, 12, 55.	1.8	6
67	On the importance of configurational sampling in theoretical calculation of electronic properties of complex molecular systems: Acetone in water. <i>Chemical Physics Letters</i> , 2006, 424, 289-294.	1.2	5
68	2-(Hydroxyimino)aldehydes: Photo- and Physicochemical Properties of a Versatile Functional Group for Monomer Design. <i>Chemistry - A European Journal</i> , 2018, 24, 7683-7694.	1.7	5
69	Rationalizing Sequence and Conformational Effects on the Guanine Oxidation in Different DNA Conformations. <i>Journal of Physical Chemistry B</i> , 2022, 126, 5017-5023.	1.2	5
70	Theoretical computational modelling of the temperature dependence of the folding/unfolding thermodynamics and kinetics: the case of a Trp-cage. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 23162-23168.	1.3	4
71	C-12 vs C-3 substituted bile salts: An example of the effects of substituent position and orientation on the self-assembly of steroid surfactant isomers. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 185, 110556.	2.5	4
72	Quaternary Structure Transitions of Human Hemoglobin: An Atomic-Level View of the Functional Intermediate States. <i>Journal of Chemical Information and Modeling</i> , 2021, 61, 3988-3999.	2.5	4

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73	Theoretical prediction of thermodynamic equilibrium constants of chemical reactions in water. Computational and Theoretical Chemistry, 2007, 811, 197-201.	1.5	3
74	What can we learn by comparing experimental and theoretical-computational X-ray scattering data?. Journal of Molecular Liquids, 2009, 144, 9-12.	2.3	3
75	Computational Modeling of the Thermodynamics of the Mesophilic and Thermophilic Mutants of Trp-Cage Miniprotein. ACS Omega, 2022, 7, 13448-13454.	1.6	3
76	Characterization of liquid behaviour by means of local density fluctuations. Journal of Molecular Liquids, 2005, 117, 17-21.	2.3	2
77	Structure and dynamics of mesophilic variants from the homing endonuclease I-Dmol. Journal of Computer-Aided Molecular Design, 2017, 31, 1063-1072.	1.3	2
78	Modelling the Activation Pathways in Full-Length Src Kinase. Biophysica, 2021, 1, 238-248.	0.6	2
79	The Full Model of the pMHC-TCR-CD3 Complex: A Structural and Dynamical Characterization of Bound and Unbound States. Cells, 2022, 11, 668.	1.8	2
80	Effect of DNA on the conformational dynamics of the endonucleases Iâ€œDmol as provided by molecular dynamics simulations. Biopolymers, 2016, 105, 898-904.	1.2	1
81	Investigating the oxidative refolding mechanism of Cripto-1 CFC domain. International Journal of Biological Macromolecules, 2019, 137, 1179-1189.	3.6	1
82	Evolutionary Modes in Protein Observable Space: The Case of Thioredoxins. Journal of Molecular Evolution, 2019, 87, 175-183.	0.8	1
83	Exploiting Reactionâ€œDiffusion Conditions to Trigger Pathway Complexity in the Growth of a MOF. Angewandte Chemie, 2021, 133, 16056-16063.	1.6	1
84	Theoretical Study of the Thermodynamics of a Solvated Peptide: Contryphan Vn. Physica Scripta, 2005, , 196.	1.2	1
85	Innentitelbild: Exploiting Reactionâ€œDiffusion Conditions to Trigger Pathway Complexity in the Growth of a MOF (Angew. Chem. 29/2021). Angewandte Chemie, 2021, 133, 15794-15794.	1.6	0