

Michele Cascella

List of Publications by Year in descending order

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73
papers

2,209
citations

218592

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243529

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docs citations

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times ranked

3056
citing authors

#	ARTICLE	IF	CITATIONS
1	Wavefunction-Based Electrostatic-Embedding QM/MM Using CFOUR through MiMiC. <i>Journal of Chemical Theory and Computation</i> , 2022, 18, 13-24.	2.3	2
2	Bias Amplification in Gender, Gender Identity, and Geographical Affiliation. <i>Journal of Chemical Information and Modeling</i> , 2022, , .	2.5	2
3	Aggregation of Lipid A Variants: A Hybrid Particle-Field Model. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2021, 1865, 129570.	1.1	15
4	Engineering of a functional \hat{I}^3 -tocopherol transfer protein. <i>Redox Biology</i> , 2021, 38, 101773.	3.9	5
5	Automated determination of hybrid particle-field parameters by machine learning. <i>Molecular Physics</i> , 2020, 118, e1785571.	0.8	8
6	First-Principles Calculation of ^1H NMR Chemical Shifts of Complex Metal Polyhydrides: The Essential Inclusion of Relativity and Dynamics. <i>Inorganic Chemistry</i> , 2020, 59, 17509-17518.	1.9	12
7	Dispersion state phase diagram of citrate-coated metallic nanoparticles in saline solutions. <i>Nature Communications</i> , 2020, 11, 5422.	5.8	47
8	Hamiltonian and alias-free hybrid particle-field molecular dynamics. <i>Journal of Chemical Physics</i> , 2020, 153, 094106.	1.2	8
9	Hybrid particle-field molecular dynamics under constant pressure. <i>Journal of Chemical Physics</i> , 2020, 152, 184908.	1.2	15
10	Supramolecular Packing Drives Morphological Transitions of Charged Surfactant Micelles. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 18591-18598.	7.2	41
11	Supramolecular Packing Drives Morphological Transitions of Charged Surfactant Micelles. <i>Angewandte Chemie</i> , 2020, 132, 18750-18757.	1.6	17
12	Can Polarity-Inverted Surfactants Self-Assemble in Nonpolar Solvents?. <i>Journal of Physical Chemistry B</i> , 2020, 124, 6448-6458.	1.2	8
13	The Grignard Reaction - Unraveling a Chemical Puzzle. <i>Journal of the American Chemical Society</i> , 2020, 142, 2984-2994.	6.6	84
14	Mesoscale Electrostatics Driving Particle Dynamics in Nonhomogeneous Dielectrics. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 2033-2041.	2.3	17
15	Four-component relativistic ^3P NMR calculations for <i>trans</i> -platinum(II) complexes: importance of the solvent and dynamics in spectral simulations. <i>Dalton Transactions</i> , 2019, 48, 8076-8083.	1.6	18
16	Hybrid Particle-Field Model for Conformational Dynamics of Peptide Chains. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 1120-1130.	2.3	24
17	Structural Origin of Metal Specificity in Isatin Hydrolase from <i>Labrenzia aggregata</i> Investigated by Computer Simulations. <i>Chemistry - A European Journal</i> , 2018, 24, 5074-5077.	1.7	4
18	Mechanistic insights into formic acid dehydrogenation promoted by Cu-amino based systems. <i>Inorganica Chimica Acta</i> , 2018, 470, 290-294.	1.2	10

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19	Intramolecular structural parameters are key modulators of the gel-liquid transition in coarse grained simulations of DPPC and DOPC lipid bilayers. <i>Biochemical and Biophysical Research Communications</i> , 2018, 498, 327-333.	1.0	8
20	A fundamental catalytic difference between zinc and manganese dependent enzymes revealed in a bacterial isatin hydrolase. <i>Scientific Reports</i> , 2018, 8, 13104.	1.6	10
21	Self-Assembly of $\hat{I}\pm$ -Tocopherol Transfer Protein Nanoparticles: A Patchy Protein Model. <i>Journal of Physical Chemistry B</i> , 2018, 122, 7066-7072.	1.2	5
22	Hybrid Particle-Field Molecular Dynamics Simulations of Charged Amphiphiles in an Aqueous Environment. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 4928-4937.	2.3	23
23	How Solvent Dynamics Controls the Schlenk Equilibrium of Grignard Reagents: A Computational Study of CH_3MgCl in Tetrahydrofuran. <i>Journal of Physical Chemistry B</i> , 2017, 121, 4226-4237.	1.2	63
24	Biomembrane solubilization mechanism by Triton X-100: a computational study of the three stage model. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 29780-29794.	1.3	39
25	Toward Chemically Resolved Computer Simulations of Dynamics and Remodeling of Biological Membranes. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3586-3594.	2.1	35
26	Self-assembled $\hat{I}\pm$ -Tocopherol Transfer Protein Nanoparticles Promote Vitamin E Delivery Across an Endothelial Barrier. <i>Scientific Reports</i> , 2017, 7, 4970.	1.6	21
27	Proton disorder in cubic ice: Effect on the electronic and optical properties. <i>Journal of Chemical Physics</i> , 2015, 143, 084507.	1.2	7
28	Mechanisms of recognition and binding of $\hat{I}\pm$ -TTP to the plasma membrane by multi-scale molecular dynamics simulations. <i>Frontiers in Molecular Biosciences</i> , 2015, 2, 36.	1.6	10
29	Structural insights on cholesterol endosynthesis: Binding of squalene and 2,3-oxidosqualene to supernatant protein factor. <i>Journal of Structural Biology</i> , 2015, 190, 261-270.	1.3	21
30	Anthanthrene dye-sensitized solar cells: influence of the number of anchoring groups and substitution motif. <i>RSC Advances</i> , 2015, 5, 98643-98652.	1.7	14
31	Toward accurate coarse-graining approaches for protein and membrane simulations. <i>Chemical Modelling</i> , 2015, , 1-52.	0.2	10
32	Mechanisms of Ligand-Protein Interaction in Sec-14-like Transporters Investigated by Computer Simulations. <i>Chimia</i> , 2014, 68, 615.	0.3	2
33	Human infrared vision is triggered by two-photon chromophore isomerization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E5445-54.	3.3	80
34	Human Cellular Retinaldehyde-Binding Protein Has Secondary Thermal <i>cis</i> -Retinal Isomerase Activity. <i>Journal of the American Chemical Society</i> , 2014, 136, 137-146.	6.6	15
35	A quinoxaline-fused tetrathiafulvalene-based sensitizer for efficient dye-sensitized solar cells. <i>Chemical Communications</i> , 2014, 50, 6540-6542.	2.2	65
36	Electronic tuning effects via cyano substitution of a fused tetrathiafulvalene-benzothiadiazole dyad for ambipolar transport properties. <i>RSC Advances</i> , 2014, 4, 2873-2878.	1.7	26

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37	Electrostatic-Consistent Coarse-Grained Potentials for Molecular Simulations of Proteins. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 3515-3526.	2.3	29
38	Electrostatics and flexibility drive membrane recognition and early penetration by the antimicrobial peptide dendrimer bH1. <i>Chemical Communications</i> , 2013, 49, 8821.	2.2	29
39	Cis-retinoids and the chemistry of vision. <i>Archives of Biochemistry and Biophysics</i> , 2013, 539, 187-195.	1.4	14
40	On the Acceleration of Cu Electrodeposition by TBPS (3,3-thiobis-1-propanesulfonic acid): A Combined Electrochemical, STM, NMR, ESI-MS and DFT Study. <i>Journal of the Electrochemical Society</i> , 2013, 160, D3158-D3164.	1.3	18
41	Cellular Retinaldehyde Binding Proteinâ€™ Different Binding Modes and Micro-Solvation Patterns for High-Affinity 9-cis- and 11-cis-Retinal Substrates. <i>Journal of Physical Chemistry B</i> , 2013, 117, 10719-10729.	1.2	5
42	Supramolecular Organization of Heptapyrenotide Oligomersâ€™ An in Depth Investigation by Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2013, 117, 2576-2585.	1.2	8
43	Subtle Differences in Virus Composition Affect Disinfection Kinetics and Mechanisms. <i>Applied and Environmental Microbiology</i> , 2013, 79, 3455-3467.	1.4	76
44	Multidrug Resistance and Efflux Pumps: Insights from Molecular Dynamics Simulations. <i>Current Topics in Medicinal Chemistry</i> , 2013, 13, 3165-3183.	1.0	21
45	Excited state properties of formamide in water solution: An <i>ab initio</i> study. <i>Journal of Chemical Physics</i> , 2012, 137, 164317.	1.2	2
46	Recognition of Imipenem and Meropenem by the RND-Transporter MexB Studied by Computer Simulations. <i>Journal of the American Chemical Society</i> , 2012, 134, 19146-19158.	6.6	41
47	Molecular Origin of Piezo- and Pyroelectric Properties in Collagen Investigated by Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2012, 116, 1901-1907.	1.2	30
48	Characterization of Molecular Determinants of the Conformational Stability of Macrophage Migration Inhibitory Factor: Leucine 46 Hydrophobic Pocket. <i>PLoS ONE</i> , 2012, 7, e45024.	1.1	9
49	Engineering Tocopherol Selectivity in Î±-TTP: A Combined In Vitro/In Silico Study. <i>PLoS ONE</i> , 2012, 7, e49195.	1.1	10
50	UV Radiation Induces Genomeâ€™Mediated, Siteâ€™Specific Cleavage in Viral Proteins. <i>ChemBioChem</i> , 2012, 13, 837-845.	1.3	37
51	From Structure to Function: Characterization of Cu(I) Adducts in Leveler Additives by DFT Calculations. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 3081-3084.	2.1	9
52	Optical properties of flavin mononucleotide: A QM/MM study of protein environment effects. <i>Chemical Physics</i> , 2011, 389, 35-38.	0.9	16
53	Low Inhibiting Power of N-â€œCO Based Peptidomimetic Compounds against HIV-1 Protease: Insights from a QM/MM Study. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 1369-1379.	2.3	13
54	A Nonradial Coarse-Grained Potential for Proteins Produces Naturally Stable Secondary Structure Elements. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 315-324.	2.3	48

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55	Challenges and Perspectives in Biomolecular Simulations: From the Atomistic Picture to Multiscale Modeling. <i>Chimia</i> , 2009, 63, 14.	0.3	15
56	Excited state properties of liquid water. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 033101.	0.7	24
57	Dispersion Corrected Atom-Centered Potentials for Phosphorus. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 2930-2934.	2.3	15
58	The Conformational Flexibility of the Carboxy Terminal Residues 105~114 Is a Key Modulator of the Catalytic Activity and Stability of Macrophage Migration Inhibitory Factor. <i>Biochemistry</i> , 2008, 47, 10740-10756.	1.2	40
59	Topologically Based Multipolar Reconstruction of Electrostatic Interactions in Multiscale Simulations of Proteins. <i>Journal of Chemical Theory and Computation</i> , 2008, 4, 1378-1385.	2.3	28
60	Optical Spectra of Cu(II)~Azurin by Hybrid TDDFT-Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2007, 111, 10248-10252.	1.2	38
61	Formation of Boronate Ester Polymers with Efficient Intrastrand Charge~Transfer Transitions by Three~Component Reactions. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 5177-5181.	1.0	68
62	Microsolvation Effects on the Excited-State Dynamics of Protonated Tryptophan. <i>Journal of the American Chemical Society</i> , 2006, 128, 16938-16943.	6.6	144
63	Ab~Initio Calculation of Optical Spectra of Liquids: Many-Body Effects in the Electronic Excitations of Water. <i>Physical Review Letters</i> , 2006, 97, 137402.	2.9	77
64	Role of protein frame and solvent for the redox properties of azurin from <i>Pseudomonas aeruginosa</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 19641-19646.	3.3	135
65	The influence of conformational fluctuations on enzymatic activity: modelling the functional motion of P~secretase. <i>Journal of Physics Condensed Matter</i> , 2005, 17, S1581-S1593.	0.7	14
66	Coarse-Grained Model of Proteins Incorporating Atomistic Detail of the Active Site. <i>Physical Review Letters</i> , 2005, 95, 218102.	2.9	157
67	Evolutionarily Conserved Functional Mechanics across Pepsin-like and Retroviral Aspartic Proteases. <i>Journal of the American Chemical Society</i> , 2005, 127, 3734-3742.	6.6	74
68	Dynamics and energetics of water permeation through the aquaporin channel. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004, 55, 924-931.	1.5	43
69	Formamide Hydrolysis Investigated by Multiple-Steering ab Initio Molecular Dynamics. <i>Journal of Physical Chemistry B</i> , 2004, 108, 369-375.	1.2	50
70	A Proficient Enzyme:~Insights on the Mechanism of Orotidine Monophosphate Decarboxylase from Computer Simulations. <i>Journal of the American Chemical Society</i> , 2004, 126, 15730-15737.	6.6	26
71	Multiple Steering Molecular Dynamics Applied to Water Exchange at Alkali Ions. <i>Journal of Physical Chemistry B</i> , 2002, 106, 13027-13032.	1.2	15
72	Vibrational excitation in electron-CH4 collisions: exchange interaction effects. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2001, 34, 705-723.	0.6	22

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73	Electron-impact vibrational excitation of polyatomic gases: Exploratory calculations. Journal of Chemical Physics, 2001, 114, 1989-2000.	1.2	14