# Maria J. Ramos

# List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

377 papers 10,540 47 85 g-index

410 11,882 4.6 6.56 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
377	Lessons from a Single Amino Acid Substitution: Anticancer and Antibacterial Properties of Two Phospholipase A2-Derived Peptides. <i>Current Issues in Molecular Biology</i> , <b>2022</b> , 44, 46-62	2.9	3
376	Necessity is the Mother of Invention: A Remote Molecular Bioinformatics Practical Course in the COVID-19 Era <i>Journal of Chemical Education</i> , <b>2022</b> , 99, 2147-2153	2.4	1
375	Towards the Accurate Thermodynamic Characterization of Enzyme Reaction Mechanisms <i>ChemPhysChem</i> , <b>2022</b> , e202200159	3.2	O
374	A combined experimental and computational study to discover novel tyrosinase inhibitors. <i>Journal of Inorganic Biochemistry</i> , <b>2022</b> , 111879	4.2	
373	MOLECULAR BIOINFORMATICS. Revista De Ciòcia Elementar, <b>2021</b> , 9,	0.3	2
372	Structure based virtual screening of natural product molecules as glycosidase inhibitors. <i>In Silico Pharmacology</i> , <b>2021</b> , 9, 56	4.3	1
371	Novel Pet-Degrading Enzymes: Structure-Function from a Computational Perspective. <i>ChemBioChem</i> , <b>2021</b> , 22, 2032-2050	3.8	6
370	Structural, enzymatic and pharmacological profiles of AplTX-II - A basic sPLA (D49) isolated from the Agkistrodon piscivorus leucostoma snake venom. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 175, 572-585	7.9	1
369	Passive Diffusion of Ciprofloxacin and its Metalloantibiotic: A Computational and Experimental study. <i>Journal of Molecular Biology</i> , <b>2021</b> , 433, 166911	6.5	4
368	Chromeno[3,4-]xanthones as First-in-Class AChE and Alaggregation Dual-Inhibitors. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	3
367	Animal Fatty Acid Synthase: A Chemical Nanofactory. <i>Chemical Reviews</i> , <b>2021</b> , 121, 9502-9553	68.1	6
366	Combined in silico and in vitro studies to identify novel antidiabetic flavonoids targeting glycogen phosphorylase. <i>Bioorganic Chemistry</i> , <b>2021</b> , 108, 104552	5.1	4
365	Discovery of a multi-target compound for estrogen receptor-positive (ER) breast cancer: Involvement of aromatase and ERs. <i>Biochimie</i> , <b>2021</b> , 181, 65-76	4.6	6
364	Alkyl aryl modifications: a comparative study on modular modifications of triphenylphosphonium mitochondrial vectors <i>RSC Chemical Biology</i> , <b>2021</b> , 2, 1643-1650	3	2
363	Unraveling the cGAS catalytic mechanism upon DNA activation through molecular dynamics simulations. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 9524-9531	3.6	O
362	Reaction Mechanism of MHETase, a PET Degrading Enzyme. ACS Catalysis, 2021, 11, 10416-10428	13.1	5
361	Reaction Mechanism of the PET Degrading Enzyme PETase Studied with DFT/MM Molecular Dynamics Simulations. <i>ACS Catalysis</i> , <b>2021</b> , 11, 11626-11638	13.1	4

360	The Catalytic Mechanism of the Retaining Glycosyltransferase Mannosylglycerate Synthase. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 13998-14006	4.8	2
359	Structural Specificity of Flavonoids in the Inhibition of Human Fructose 1,6-Bisphosphatase. <i>Journal of Natural Products</i> , <b>2020</b> , 83, 1541-1552	4.9	8
358	Activation Free Energy, Substrate Binding Free Energy, and Enzyme Efficiency Fall in a Very Narrow Range of Values for Most Enzymes. <i>ACS Catalysis</i> , <b>2020</b> , 10, 8444-8453	13.1	5
357	How the Destabilization of a Reaction Intermediate Affects Enzymatic Efficiency: The Case of Human Transketolase. <i>ACS Catalysis</i> , <b>2020</b> , 10, 2872-2881	13.1	9
356	Cannabidiol (CBD) but not tetrahydrocannabinol (THC) dysregulate in vitro decidualization of human endometrial stromal cells by disruption of estrogen signaling. <i>Reproductive Toxicology</i> , <b>2020</b> , 93, 75-82	3.4	14
355	Binding Mode Prediction and Identification of New Lead Compounds from Natural Products as 3-OST Enzyme Inhibitors. <i>Letters in Drug Design and Discovery</i> , <b>2020</b> , 17, 1186-1196	0.8	
354	Catalytic Mechanism of Human Aldehyde Oxidase. ACS Catalysis, 2020, 10, 9276-9286	13.1	8
353	Reaction Mechanism and Determinants for Efficient Catalysis by DszB, a Key Enzyme for Crude Oil Bio-desulfurization. <i>ACS Catalysis</i> , <b>2020</b> , 10, 9545-9554	13.1	17
352	The bacterial 4S pathway han economical alternative for crude oil desulphurization that reduces CO2 emissions. <i>Green Chemistry</i> , <b>2020</b> , 22, 7604-7621	10	2
351	Assessing the validity of DLPNO-CCSD(T) in the calculation of activation and reaction energies of ubiquitous enzymatic reactions. <i>Journal of Computational Chemistry</i> , <b>2020</b> , 41, 2459-2468	3.5	7
350	Solving the Catalytic Mechanism of Tryptophan Synthase: an Emergent Drug Target in the Treatment of Tuberculosis. <i>ChemCatChem</i> , <b>2020</b> , 12, 227-237	5.2	4
349	Estrogen receptor-positive (ER) breast cancer treatment: Are multi-target compounds the next promising approach?. <i>Biochemical Pharmacology</i> , <b>2020</b> , 177, 113989	6	17
348	The importance of intramolecular hydrogen bonds on the translocation of the small drug piracetam through a lipid bilayer <i>RSC Advances</i> , <b>2020</b> , 11, 899-908	3.7	9
347	The interaction of aluminum with catecholamine-based neurotransmitters: can the formation of these species be considered a potential risk factor for neurodegenerative diseases?. <i>Dalton Transactions</i> , <b>2019</b> , 48, 6003-6018	4.3	8
346	Exploring the Identity of the General Base for a DNA Polymerase Catalyzed Reaction Using QM/MM: The Case Study of Human Translesion Synthesis Polymerase []ACS Catalysis, <b>2019</b> , 9, 2543-255	1 <sup>13.1</sup>	10
345	Benchmark of Density Functionals for the Calculation of the Redox Potential of Fe/Fe Within Protein Coordination Shells. <i>Frontiers in Chemistry</i> , <b>2019</b> , 7, 391	5	6
344	A computational study on the redox properties and binding affinities of iron complexes of hydroxypyridinones. <i>Journal of Molecular Modeling</i> , <b>2019</b> , 25, 172	2	1
343	New insights about the monomer and homodimer structures of the human AOX1. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 13545-13554	3.6	4

342	Enabling Mitochondrial Uptake of Lipophilic Dications Using Methylated Triphenylphosphonium Moieties. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 8293-8299	5.1	12
341	Conformational diversity induces nanosecond-timescale chemical disorder in the HIV-1 protease reaction pathway. <i>Chemical Science</i> , <b>2019</b> , 10, 7212-7221	9.4	10
340	Evaluation of a flavonoids library for inhibition of pancreatic \(\text{\text{\text{m}mylase}}\) towards a structure-activity relationship. Journal of Enzyme Inhibition and Medicinal Chemistry, <b>2019</b> , 34, 577-588	5.6	53
339	Human Fatty Acid Synthase: A Computational Study of the Transfer of the Acyl Moieties from MAT to the ACP Domain. <i>ChemCatChem</i> , <b>2019</b> , 11, 3853-3864	5.2	7
338	Complexities of the Reaction Mechanisms of CC Double Bond Reduction in Mammalian Fatty Acid Synthase Studied with Quantum Mechanics/Molecular Mechanics Calculations. <i>ACS Catalysis</i> , <b>2019</b> , 9, 11404-11412	13.1	8
337	The Catalytic Mechanism of Human Transketolase. <i>ChemPhysChem</i> , <b>2019</b> , 20, 2881-2886	3.2	10
336	Structural and mechanistic aspects of S-S bonds in the thioredoxin-like family of proteins. <i>Biological Chemistry</i> , <b>2019</b> , 400, 575-587	4.5	11
335	A novel synthetic peptide inspired on Lys49 phospholipase A from Crotalus oreganus abyssus snake venom active against multidrug-resistant clinical isolates. <i>European Journal of Medicinal Chemistry</i> , <b>2018</b> , 149, 248-256	6.8	16
334	A QM/MM approach on the structural and stereoelectronic factors governing glycosylation by GTF-SI from Streptococcus mutans. <i>Organic and Biomolecular Chemistry</i> , <b>2018</b> , 16, 2438-2447	3.9	7
333	A Buried Water Molecule Influences Reactivity in ⊞Amylase on a Subnanosecond Time Scale. <i>ACS Catalysis</i> , <b>2018</b> , 8, 4055-4063	13.1	14
332	Understanding the Catalytic Machinery and the Reaction Pathway of the Malonyl-Acetyl Transferase Domain of Human Fatty Acid Synthase. <i>ACS Catalysis</i> , <b>2018</b> , 8, 4860-4872	13.1	20
331	Parametrization of Molybdenum Cofactors for the AMBER Force Field. <i>Journal of Chemical Theory and Computation</i> , <b>2018</b> , 14, 2538-2548	6.4	5
330	Studies on neuraminidase inhibition. <i>International Journal of Quantum Chemistry</i> , <b>2018</b> , 118, e25592	2.1	1
329	Visualizing the Microscopic World. <i>Interdisciplinary Sciences, Computational Life Sciences</i> , <b>2018</b> , 10, 105-1	1 <u>30</u> 5	2
328	Modulation of lateral and longitudinal interdimeric interactions in microtubule models by Laulimalide and Peloruside A association: A molecular modeling approach on the mechanism of microtubule stabilizing agents. <i>Chemical Biology and Drug Design</i> , <b>2018</b> , 91, 1042-1055	2.9	6
327	Mechanistic Pathway on Human Ælucosidase Maltase-Glucoamylase Unveiled by QM/MM Calculations. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 3889-3899	3.4	18
326	Protocol for Computational Enzymatic Reactivity Based on Geometry Optimisation. <i>ChemPhysChem</i> , <b>2018</b> , 19, 669-689	3.2	14
325	Membrane partition of bis-(3-hydroxy-4-pyridinonato) zinc(ii) complexes revealed by molecular dynamics simulations <i>RSC Advances</i> , <b>2018</b> , 8, 27081-27090	3.7	4

324	Properties that rank protein:protein docking poses with high accuracy. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 20927-20942	3.6	4	
323	Understanding the Rate-Limiting Step of Glycogenolysis by Using QM/MM Calculations on Human Glycogen Phosphorylase. <i>ChemMedChem</i> , <b>2018</b> , 13, 1608-1616	3.7	4	
322	Tuning the affinity of catechols and salicylic acids towards Al(iii): characterization of Al-chelator interactions. <i>Dalton Transactions</i> , <b>2018</b> , 47, 9592-9607	4.3	8	
321	Modeling of Human Fatty Acid Synthase and in Silico Docking of Acyl Carrier Protein Domain and Its Partner Catalytic Domains. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 77-85	3.4	14	
320	Mechanistic Insights on Human Phosphoglucomutase Revealed by Transition Path Sampling and Molecular Dynamics Calculations. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 1978-1987	4.8	7	
319	QM/MM Study of the Reaction Mechanism of the Dehydratase Domain from Mammalian Fatty Acid Synthase. <i>ACS Catalysis</i> , <b>2018</b> , 8, 10267-10278	13.1	19	
318	Understanding Conformational Dynamics of Complex Lipid Mixtures Relevant to Biology. <i>Journal of Membrane Biology</i> , <b>2018</b> , 251, 609-631	2.3	26	
317	Mechanistic Studies of a Flavin Monooxygenase: Sulfur Oxidation of Dibenzothiophenes by DszC. <i>ACS Catalysis</i> , <b>2018</b> , 8, 9298-9311	13.1	10	
316	Catalytic Mechanism of the Serine Hydroxymethyltransferase: A Computational ONIOM QM/MM Study. <i>ACS Catalysis</i> , <b>2018</b> , 8, 10096-10110	13.1	19	
315	Determining the glycation site specificity of human holo-transferrin. <i>Journal of Inorganic Biochemistry</i> , <b>2018</b> , 186, 95-102	4.2	3	
314	Transport Properties of Light Gases in Nanochannels of Lileu-L-Ser Dipeptide Crystals: A Comparative Study by Molecular Dynamics Simulations. <i>ChemistrySelect</i> , <b>2018</b> , 3, 5517-5525	1.8	1	
313	Revisiting Partition in Hydrated Bilayer Systems. <i>Journal of Chemical Theory and Computation</i> , <b>2017</b> , 13, 2290-2299	6.4	11	
312	Clarifying the Catalytic Mechanism of Human Glutamine Synthetase: A QM/MM Study. <i>Journal of Physical Chemistry B</i> , <b>2017</b> , 121, 6313-6320	3.4	5	
311	Mechanistic insights on the reduction of glutathione disulfide by protein disulfide isomerase.  Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E4724-E473.	3 <sup>11.5</sup>	31	
310	Benchmarking of density functionals for the kinetics and thermodynamics of the hydrolysis of glycosidic bonds catalyzed by glycosidases. <i>International Journal of Quantum Chemistry</i> , <b>2017</b> , 117, e254	4 <b>6</b> 9 <sup>1</sup>	23	
309	The Catalytic Mechanism of the Pyridoxal-5'-phosphate-Dependent Enzyme, Histidine Decarboxylase: A Computational Study. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 9162-9173	4.8	19	
308	The mechanism of the Ser-(cis)Ser-Lys catalytic triad of peptide amidases. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 12343-12354	3.6	9	
307	Diffusion of the small, very polar, drug piracetam through a lipid bilayer: an MD simulation study. <i>Theoretical Chemistry Accounts</i> , <b>2017</b> , 136, 1	1.9	12	

306	Unique Triphenylphosphonium Derivatives for Enhanced Mitochondrial Uptake and Photodynamic Therapy. <i>Bioconjugate Chemistry</i> , <b>2017</b> , 28, 590-599	6.3	36
305	New Parameters for Higher Accuracy in the Computation of Binding Free Energy Differences upon Alanine Scanning Mutagenesis on Protein-Protein Interfaces. <i>Journal of Chemical Information and Modeling</i> , <b>2017</b> , 57, 60-72	6.1	29
304	Improving the Catalytic Power of the DszD Enzyme for the Biodesulfurization of Crude Oil and Derivatives. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 17231-17241	4.8	15
303	EGlucosidase inhibition by flavonoids: an in vitro and in silico structure-activity relationship study. Journal of Enzyme Inhibition and Medicinal Chemistry, <b>2017</b> , 32, 1216-1228	5.6	153
302	Influence of Frozen Residues on the Exploration of the PES of Enzyme Reaction Mechanisms. Journal of Chemical Theory and Computation, <b>2017</b> , 13, 5486-5495	6.4	20
301	Amino acid deprivation using enzymes as a targeted therapy for cancer and viral infections. <i>Expert Opinion on Therapeutic Patents</i> , <b>2017</b> , 27, 283-297	6.8	44
300	Binding free energy calculations on E-selectin complexes with sLe oligosaccharide analogs. <i>Chemical Biology and Drug Design</i> , <b>2017</b> , 89, 114-123	2.9	6
299	Application of quantum mechanics/molecular mechanics methods in the study of enzymatic reaction mechanisms. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , <b>2017</b> , 7, e1281	7.9	104
298	Molecular motion regulates the activity of the Mitochondrial Serine Protease HtrA2. <i>Cell Death and Disease</i> , <b>2017</b> , 8, e3119	9.8	11
297	Cancer therapies based on enzymatic amino acid depletion <b>2017</b> , 623-651		2
297 296	Cancer therapies based on enzymatic amino acid depletion <b>2017</b> , 623-651  HMG-CoA Reductase inhibitors: an updated review of patents of novel compounds and formulations (2011-2015). <i>Expert Opinion on Therapeutic Patents</i> , <b>2016</b> , 26, 1257-1272	6.8	16
	HMG-CoA Reductase inhibitors: an updated review of patents of novel compounds and	6.8	
296	HMG-CoA Reductase inhibitors: an updated review of patents of novel compounds and formulations (2011-2015). <i>Expert Opinion on Therapeutic Patents</i> , <b>2016</b> , 26, 1257-1272  Reaction Mechanism of Mycobacterium Tuberculosis Glutamine Synthetase Using Quantum		16
296 295	HMG-CoA Reductase inhibitors: an updated review of patents of novel compounds and formulations (2011-2015). <i>Expert Opinion on Therapeutic Patents</i> , <b>2016</b> , 26, 1257-1272  Reaction Mechanism of Mycobacterium Tuberculosis Glutamine Synthetase Using Quantum Mechanics/Molecular Mechanics Calculations. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 9218-25  Unveiling the Catalytic Mechanism of NADP+-Dependent Isocitrate Dehydrogenase with QM/MM	4.8	16
296 295 294	HMG-CoA Reductase inhibitors: an updated review of patents of novel compounds and formulations (2011-2015). Expert Opinion on Therapeutic Patents, 2016, 26, 1257-1272  Reaction Mechanism of Mycobacterium Tuberculosis Glutamine Synthetase Using Quantum Mechanics/Molecular Mechanics Calculations. Chemistry - A European Journal, 2016, 22, 9218-25  Unveiling the Catalytic Mechanism of NADP+-Dependent Isocitrate Dehydrogenase with QM/MM Calculations. ACS Catalysis, 2016, 6, 357-368  Molecular dynamic simulations and structure-based pharmacophore development for farnesyltransferase inhibitors discovery. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016,	4.8	16 17 18
296 295 294 293	HMG-CoA Reductase inhibitors: an updated review of patents of novel compounds and formulations (2011-2015). Expert Opinion on Therapeutic Patents, 2016, 26, 1257-1272  Reaction Mechanism of Mycobacterium Tuberculosis Glutamine Synthetase Using Quantum Mechanics/Molecular Mechanics Calculations. Chemistry - A European Journal, 2016, 22, 9218-25  Unveiling the Catalytic Mechanism of NADP+-Dependent Isocitrate Dehydrogenase with QM/MM Calculations. ACS Catalysis, 2016, 6, 357-368  Molecular dynamic simulations and structure-based pharmacophore development for farnesyltransferase inhibitors discovery. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1428-42  Structure of a truncated form of leucine zipper II of JIP3 reveals an unexpected antiparallel coiled-coil arrangement. Acta Crystallographica Section F, Structural Biology Communications, 2016,	4.8 13.1 5.6	16 17 18 5
296 295 294 293 292	HMG-CoA Reductase inhibitors: an updated review of patents of novel compounds and formulations (2011-2015). Expert Opinion on Therapeutic Patents, 2016, 26, 1257-1272  Reaction Mechanism of Mycobacterium Tuberculosis Glutamine Synthetase Using Quantum Mechanics/Molecular Mechanics Calculations. Chemistry - A European Journal, 2016, 22, 9218-25  Unveiling the Catalytic Mechanism of NADP+-Dependent Isocitrate Dehydrogenase with QM/MM Calculations. ACS Catalysis, 2016, 6, 357-368  Molecular dynamic simulations and structure-based pharmacophore development for farnesyltransferase inhibitors discovery. Journal of Enzyme Inhibition and Medicinal Chemistry, 2016, 31, 1428-42  Structure of a truncated form of leucine zipper II of JIP3 reveals an unexpected antiparallel coiled-coil arrangement. Acta Crystallographica Section F, Structural Biology Communications, 2016, 72, 198-206  Synthesis and structural characterization, by spectroscopic and computational methods, of two fluorescent 3-hydroxy-4-pyridinone chelators bearing sulphorhodamine B and naphthalene. RSC	4.8 13.1 5.6	16 17 18 5

## (2015-2016)

288	QM/MM study of the mechanism of reduction of 3-hydroxy-3-methylglutaryl coenzyme A catalyzed by human HMG-CoA reductase. <i>Catalysis Science and Technology</i> , <b>2016</b> , 6, 7172-7185	5.5	14
287	Improving the Biodesulfurization of Crude Oil and Derivatives: A QM/MM Investigation of the Catalytic Mechanism of NADH-FMN Oxidoreductase (DszD). <i>Journal of Physical Chemistry A</i> , <b>2016</b> , 120, 5300-6	2.8	22
286	Binding mode of conformations and structure-based pharmacophore development for farnesyltransferase inhibitors. <i>Medicinal Chemistry Research</i> , <b>2016</b> , 25, 1340-1357	2.2	
285	Insights into the reaction mechanism of 3-O-sulfotransferase through QM/MM calculations. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 11488-96	3.6	10
284	Cholesterol Biosynthesis: A Mechanistic Overview. <i>Biochemistry</i> , <b>2016</b> , 55, 5483-5506	3.2	116
283	Calculation of distribution coefficients in the SAMPL5 challenge from atomic solvation parameters and surface areas. <i>Journal of Computer-Aided Molecular Design</i> , <b>2016</b> , 30, 1079-1086	4.2	3
282	The Catalytic Mechanism of the Marine-Derived Macrocyclase PatGmac. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 13089-97	4.8	15
281	Establishing the catalytic mechanism of human pancreatic \(\pm\)mylase with QM/MM methods. Journal of Chemical Theory and Computation, <b>2015</b> , 11, 2508-16	6.4	27
280	New insights in the catalytic mechanism of tyrosine ammonia-lyase given by QM/MM and QM cluster models. <i>Archives of Biochemistry and Biophysics</i> , <b>2015</b> , 582, 107-15	4.1	19
279	Molecular Dynamics Analysis of FAAH Complexed with Anandamide. <i>Progress in Theoretical Chemistry and Physics</i> , <b>2015</b> , 115-131	0.6	
278	Receptor-based virtual screening protocol for drug discovery. <i>Archives of Biochemistry and Biophysics</i> , <b>2015</b> , 582, 56-67	4.1	74
277	Synthesis and Hydrolytic Studies on the Air-Stable [(4-CN-PhO)(E)P(EN(t)Bu)]2 (E = O, S, and Se) Cyclodiphosphazanes. <i>Inorganic Chemistry</i> , <b>2015</b> , 54, 6423-32	5.1	20
276	Periplasmic nitrate reductase and formate dehydrogenase: similar molecular architectures with very different enzymatic activities. <i>Accounts of Chemical Research</i> , <b>2015</b> , 48, 2875-84	24.3	23
275	Enzymatic Flexibility and Reaction Rate: A QM/MM Study of HIV-1 Protease. ACS Catalysis, 2015, 5, 561	7 <u>-562</u> 6	5 53
274	Relationship between Enzyme/Substrate Properties and Enzyme Efficiency in Hydrolases. <i>ACS Catalysis</i> , <b>2015</b> , 5, 5877-5887	13.1	20
273	Ligand based analysis on HMG-CoA reductase inhibitors. <i>Chemometrics and Intelligent Laboratory Systems</i> , <b>2015</b> , 140, 102-116	3.8	15
272	A new scoring function for protein-protein docking that identifies native structures with unprecedented accuracy. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 2378-87	3.6	12
271	Dynamics of excited clusters of Balanine in the gas phase. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 635, 032089	0.3	_

270	Re(I) and Tc(I) complexes for targeting nitric oxide synthase: influence of the chelator in the affinity for the enzyme. <i>Chemical Biology and Drug Design</i> , <b>2015</b> , 86, 1072-86	2.9	6
269	Insight into Enzymatic Nitrile Reduction: QM/MM Study of the Catalytic Mechanism of QueF Nitrile Reductase. <i>ACS Catalysis</i> , <b>2015</b> , 5, 3740-3751	13.1	28
268	Insights into the structural determinants of substrate specificity and activity in mouse aldehyde oxidases. <i>Journal of Biological Inorganic Chemistry</i> , <b>2015</b> , 20, 209-17	3.7	17
267	PLP undergoes conformational changes during the course of an enzymatic reaction. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2014</b> , 70, 596-606		20
266	Discovery of new druggable sites in the anti-cholesterol target HMG-CoA reductase by computational alanine scanning mutagenesis. <i>Journal of Molecular Modeling</i> , <b>2014</b> , 20, 2178	2	11
265	CHEM-PATH-TRACKER: An automated tool to analyze chemical motifs in molecular structures. <i>Chemical Biology and Drug Design</i> , <b>2014</b> , 84, 44-53	2.9	1
264	Structural characterization of inclusion complexes between cyanidin-3-O-glucoside and Etyclodextrin. <i>Carbohydrate Polymers</i> , <b>2014</b> , 102, 269-77	10.3	50
263	Catalytic Mechanism of Retroviral Integrase for the Strand Transfer Reaction Explored by QM/MM Calculations. <i>Journal of Chemical Theory and Computation</i> , <b>2014</b> , 10, 5458-66	6.4	4
262	Enzymatic BricksDCarboxylate shift and sulfur shift. <i>International Journal of Quantum Chemistry</i> , <b>2014</b> , 114, 1253-1256	2.1	11
261	Discovery of new sites for drug binding to the hypertension-related renin-angiotensinogen complex. <i>Chemical Biology and Drug Design</i> , <b>2014</b> , 83, 427-39	2.9	2
260	Protein Ligand Docking in Drug Discovery <b>2014</b> , 249-286		5
259	Reaction Mechanism of Human Renin Studied by Quantum Mechanics/Molecular Mechanics (QM/MM) Calculations. <i>ACS Catalysis</i> , <b>2014</b> , 4, 3869-3876	13.1	28
258	Are hot-spots occluded from water?. Journal of Biomolecular Structure and Dynamics, 2014, 32, 186-97	3.6	8
257	Biomolecular structure manipulation using tailored electromagnetic radiation: a proof of concept on a simplified model of the active site of bacterial DNA topoisomerase. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 21768-77	3.6	3
256	Binding mode prediction and identification of new lead compounds from natural products as renin and angiotensin converting enzyme inhibitors. <i>RSC Advances</i> , <b>2014</b> , 4, 19550-19568	3.7	6
255	Prediction of Solvation Free Energies with Thermodynamic Integration Using the General Amber Force Field. <i>Journal of Chemical Theory and Computation</i> , <b>2014</b> , 10, 3570-7	6.4	25
254	The catalytic mechanism of carboxylesterases: a computational study. <i>Biochemistry</i> , <b>2014</b> , 53, 5820-9	3.2	37
253	Isomerization of B-androstene-3,17-dione into A-androstene-3,17-dione catalyzed by human glutathione transferase A3-3: a computational study identifies a dual role for glutathione. <i>Journal of Physical Chemistry A</i> , <b>2014</b> , 118, 5790-800	2.8	11

## (2013-2014)

252	Structural and dynamics analysis of matrix metalloproteinases MMP-2 complexed with chemically modified tetracyclines (CMTs). <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2014</b> , 32, 1907-18	3.6	5
251	Benchmarking of Density Functionals for the Accurate Description of Thiol-Disulfide Exchange. <i>Journal of Chemical Theory and Computation</i> , <b>2014</b> , 10, 4842-56	6.4	26
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134 133 132	Computational enzymatic catalysis. <i>Accounts of Chemical Research</i> , <b>2008</b> , 41, 689-98  Enzyme flexibility and the catalytic mechanism of farnesyltransferase: targeting the relation. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 8681-91  Structural insight on the activity of type 1 angiotensin II peptide antagonists using MD simulations. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 13620-8  Comparative density functional study of models for the reaction mechanism of uroporphyrinogen III synthase. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 3144-8  Mechanism of thioredoxin-catalyzed disulfide reduction. Activation of the buried thiol and role of	3.4	130
134 133 132	Computational enzymatic catalysis. <i>Accounts of Chemical Research</i> , <b>2008</b> , 41, 689-98  Enzyme flexibility and the catalytic mechanism of farnesyltransferase: targeting the relation. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 8681-91  Structural insight on the activity of type 1 angiotensin II peptide antagonists using MD simulations. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 13620-8  Comparative density functional study of models for the reaction mechanism of uroporphyrinogen III synthase. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 3144-8  Mechanism of thioredoxin-catalyzed disulfide reduction. Activation of the buried thiol and role of the variable active-site residues. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 2511-23  The Protein kinase inhibitor balanol: structure-activity relationships and structure-based	3·4 3·4	130 17
134 133 132 131	Computational enzymatic catalysis. <i>Accounts of Chemical Research</i> , <b>2008</b> , 41, 689-98  Enzyme flexibility and the catalytic mechanism of farnesyltransferase: targeting the relation. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 8681-91  Structural insight on the activity of type 1 angiotensin II peptide antagonists using MD simulations. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 13620-8  Comparative density functional study of models for the reaction mechanism of uroporphyrinogen III synthase. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 3144-8  Mechanism of thioredoxin-catalyzed disulfide reduction. Activation of the buried thiol and role of the variable active-site residues. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 2511-23  The Protein kinase inhibitor balanol: structure-activity relationships and structure-based computational studies. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , <b>2008</b> , 8, 638-45	3·4 3·4 3·4	130 17 11 34
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