

Martin Culka

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Predicting Effects of Site-Directed Mutagenesis on Enzyme Kinetics by QM/MM and QM Calculations: A Case of Glutamate Carboxypeptidase II. <i>Journal of Physical Chemistry B</i> , 2022, 126, 132-143.	2.6	9
2	Understanding desaturation/hydroxylation activity of castor stearyl Δ^9 -Desaturase through rational mutagenesis. <i>Computational and Structural Biotechnology Journal</i> , 2022, 20, 1378-1388.	4.1	3
3	Mapping Conformational Space of All 8000 Tripeptides by Quantum Chemical Methods: What Strain Is Affordable within Folded Protein Chains?. <i>Journal of Physical Chemistry B</i> , 2021, 125, 58-69.	2.6	6
4	Protonâ€“Electron Transfer to the Active Site Is Essential for the Reaction Mechanism of Soluble Δ^9 -Desaturase. <i>Journal of the American Chemical Society</i> , 2020, 142, 10412-10423.	13.7	24
5	Dinucleoside Polyphosphates as RNA Building Blocks with Pairing Ability in Transcription Initiation. <i>ACS Chemical Biology</i> , 2020, 15, 1765-1772.	3.4	10
6	Dinucleoside polyphosphates act as 5â€“RNA caps in bacteria. <i>Nature Communications</i> , 2020, 11, 1052.	12.8	41
7	Interplay between Conformational Strain and Intramolecular Interaction in Protein Structures: Which of Them Is Evolutionarily Conserved?. <i>Journal of Physical Chemistry B</i> , 2020, 124, 3252-3260.	2.6	7
8	Factors Stabilizing β -Sheets in Protein Structures from a Quantum-Chemical Perspective. <i>Journal of Physical Chemistry B</i> , 2019, 123, 6453-6461.	2.6	16
9	Toward <i>Ab Initio</i> Protein Folding: Inherent Secondary Structure Propensity of Short Peptides from the Bioinformatics and Quantum-Chemical Perspective. <i>Journal of Physical Chemistry B</i> , 2019, 123, 1215-1227.	2.6	12
10	Preparation of (Pentafluorosulfanyl)benzenes by Direct Fluorination of Diaryldisulfides: Synthetic Approach and Mechanistic Aspects. <i>Chemistry - A European Journal</i> , 2019, 25, 11375-11382.	3.3	18
11	Breaking Benzene Aromaticityâ€“Computational Insights into the Mechanism of the Tungsten-Containing Benzoyl-CoA Reductase. <i>Journal of the American Chemical Society</i> , 2017, 139, 14488-14500.	13.7	19
12	Mechanisms and Specificity of Phenazine Biosynthesis Protein PhzF. <i>Scientific Reports</i> , 2017, 7, 6272.	3.3	12
13	Computational Biochemistryâ€“Enzyme Mechanisms Explored. <i>Advances in Protein Chemistry and Structural Biology</i> , 2017, 109, 77-112.	2.3	5
14	PyCPR â€“ a python-based implementation of the Conjugate Peak Refinement (CPR) algorithm for finding transition state structures. <i>Journal of Molecular Modeling</i> , 2016, 22, 242.	1.8	10