Somsak Pianwanit

List of Publications by Year
in descending order

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44 papers	599 citations	687363 13 h-index	642732 23 g-index
44 all docs	44 docs citations	44 times ranked	705 citing authors

#	Article	IF	Citations
1	Interactions between isoalloxazine and o-aminobenzoate in o-aminobenzoateâ^'d-amino acid oxidase complex. Molecular dynamics and molecular orbital studies. Journal of Photochemistry and Photobiology A: Chemistry, 2021, 408, 113090.	3.9	2
2	Protein dynamics of five FMN binding protein isomers revealed by residue electrostatic energies between ionic residues: correlation coefficients. Chemical Papers, 2020, 74, 2901-2915.	2.2	0
3	Comparative Study on the Mechanism of Photoinduced Electron Transfer from Tryptophan 168 to Excited Flavin in T169S and Wild-type Pyranose 2-Oxidase. ACS Omega, 2019, 4, 593-605.	3.5	2
4	Physical quantity of residue electrostatic energy in flavin mononucleotide binding protein dimer. Computational Biology and Chemistry, 2018, 72, 96-104.	2.3	3
5	Photoinduced electron transfer from aromatic amino acids to the excited isoalloxazine in single mutated flavin mononucleotide binding proteins: Effect of the dimer formation on the rate and the electrostatic energy inside the proteins. Computational and Theoretical Chemistry, 2017, 1108, 1-9.	2.5	4
6	Dynamics of the protein structure of T169S pyranose 2-oxidase in solution: Molecular dynamics simulation. Proteins: Structure, Function and Bioinformatics, 2017, 85, 1913-1924.	2.6	5
7	New Aspects of the Structure of d-Amino Acid Oxidase from Porcine Kidney in Solution: Molecular Dynamics Simulation and Photoinduced Electron Transfer. , 2017, , .		1
8	Conformational difference between two subunits in flavin mononucleotide binding protein dimers from Desulfovibrio vulgaris (MF): molecular dynamics simulation. Computational Biology and Chemistry, 2016, 64, 113-125.	2.3	5
9	Photoinduced electron transfer from aromatic amino acids to the excited isoalloxazine in flavin mononucleotide binding protein. Is the rate in the inverted region of donorâ€"acceptor distance not real?. Journal of Photochemistry and Photobiology A: Chemistry, 2016, 326, 60-68.	3.9	12
10	Anti-HIV-1 integrase compounds from Dioscorea bulbifera and molecular docking study. Pharmaceutical Biology, 2016, 54, 1077-1085.	2.9	32
11	Anti-HIV-1 integrase effect of compounds fromAglaia andamanicaleaves and molecular docking study with acute toxicity test in mice. Pharmaceutical Biology, 2016, 54, 654-659.	2.9	5
12	Anti-HIV-1 Integrase Activity and Molecular Docking Study of Compounds from Caesalpiniaâ€‰â€‰sappan L.. Phytotherapy Research, 2015, 29, 724-729.	5.8	18
13	Classification of the mechanisms of photoinduced electron transfer from aromatic amino acids to the excited flavins in flavoproteins. Physical Chemistry Chemical Physics, 2015, 17, 16813-16825.	2.8	6
14	Heterogeneous subunit structures in the pyranose 2-oxidase homotetramer revealed by theoretical analysis of the rates of photoinduced electron transfer from a tryptophan to the excited flavin. Journal of Photochemistry and Photobiology A: Chemistry, 2015, 306, 66-79.	3.9	12
15	Anti-HIV-1 integrase activity and molecular docking of compounds fromAlbizia procerabark. Pharmaceutical Biology, 2015, 53, 1861-1866.	2.9	13
16	Role of the electrostatic energy between the photo-products and ionic groups on the photoinduced electron transfer rates from aromatic amino acids to the excited flavin in five single-point substitution isoforms of the charged amino acid residue-13 in the FMN-binding protein. Molecular Simulation, 2015, 41, 580-591.	2.0	5
17	Structural heterogeneity among four subunits in pyranose 2-oxidase: A molecular dynamics simulation study. Journal of Theoretical and Computational Chemistry, 2014, 13, 1440010.	1.8	8
18	Bell-shaped dependence of the rate of ultrafast photoinduced electron transfer from aromatic amino acids to the excited flavin on the donorâ€"acceptor distance in FMN binding proteins. Computational and Theoretical Chemistry, 2014, 1030, 9-16.	2.5	11

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19	Molecular dynamics simulation, binding free energy calculation and molecular docking of human D-amino acid oxidase (DAAO) with its inhibitors. Molecular Simulation, 2014, 40, 1167-1189.	2.0	6
20	Non-equivalent conformations of<scp>d</scp>-amino acid oxidase dimer from porcine kidney between the two subunits. Molecular dynamics simulation and photoinduced electron transfer. Physical Chemistry Chemical Physics, 2014, 16, 1930-1944.	2.8	13
21	The C-terminal region of xylanase domain in Xyn11A from Paenibacillus curdlanolyticus B-6 plays an important role in structural stability. Applied Microbiology and Biotechnology, 2014, 98, 8223-8233.	3.6	8
22	Theoretical analyses of the fluorescence lifetimes of the d-amino acid oxidaseâ€“benzoate complex dimer from porcine kidney: molecular dynamics simulation and photoinduced electron transfer. RSC Advances, 2014, 4, 54096-54108.	3.6	12
23	Use of a Hexasubstituted Benzene Scaffold in the Development of Multivalent HIV-1 Integrase Inhibitors. Chemical and Pharmaceutical Bulletin, 2014, 62, 754-763.	1.3	6
24	Photoinduced Electron Transfer Modeling to Simulate Flavoprotein Fluorescence Decay. Methods in Molecular Biology, 2014, 1076, 337-355.	0.9	0
25	Mechanism of photoinduced electron transfer from tyrosine to the excited flavin in the flavodoxin from Helicobacter pylori. A comparative study with the flavodoxin and flavin mononucleotide binding protein from Desulfovibrio vulgaris (Miyazaki F). Journal of Photochemistry and Photobiology A: Chemistry, 2013, 268, 58-66.	3.9	13
26	Relationship between rate of photoinduced electron transfer and hydrogen bonding chain of tyrosine-glutamine-flavin in flavin photoreceptors: Global analyses among four TePixDs and three AppAs. Journal of Photochemistry and Photobiology A: Chemistry, 2013, 252, 14-24.	3.9	10
27	Structural basis for the temperature-induced transition of d-amino acid oxidase from pig kidney revealed by molecular dynamic simulation and photo-induced electron transfer. Physical Chemistry Chemical Physics, 2012, 14, 2567.	2.8	24
28	The mechanism of photoinduced electron transfer in the d-amino acid oxidaseâ€“benzoate complex from pig kidney: Electron transfer in the inverted region. Journal of Photochemistry and Photobiology A: Chemistry, 2012, 250, 6-17.	3.9	13
29	AHâ‹¯Ï€ hydrogen bonding to acetylene and benzene: The role of intramolecular coupling. Computational and Theoretical Chemistry, 2012, 999, 231-238.	2.5	9
30	Simultaneous analyses of photoinduced electron transfer in the wild type and four single substitution isomers of the FMN binding protein from Desulfovibrio vulgaris, Miyazaki F. Physical Chemistry Chemical Physics, 2011, 13, 6085.	2.8	23
31	Homology modelling and molecular dynamics simulations of wild type and mutated flavodoxins fromDesulfovibrio vulgaris(Miyazaki F): insight into FMNâ€“apoprotein interactions. Molecular Simulation, 2011, 37, 1164-1178.	2.0	8
32	Theoretical analyses of photoinduced electron transfer in medium chain acyl-CoA dehydrogenase: Electron transfer in the normal region. Journal of Photochemistry and Photobiology A: Chemistry, 2011, 224, 80-90.	3.9	7
33	Analysis of photoinduced electron transfer in flavodoxin. Journal of Photochemistry and Photobiology A: Chemistry, 2011, 217, 333-340.	3.9	23
34	Photoinduced electron transfer in wild type and mutated flavodoxin from Desulfovibrio vulgaris, strain Miyazaki F.: Energy gap law. Journal of Photochemistry and Photobiology A: Chemistry, 2011, 219, 32-41.	3.9	29
35	Homology modeling and molecular dynamics simulations of Dengue virus NS2B/NS3 protease: insight into molecular interaction. Journal of Molecular Recognition, 2010, 23, 283-300.	2.1	35
36	Postprocessing of Proteinâˆ’Ligand Docking Poses Using Linear Response MM-PB/SA: Application to Wee1 Kinase Inhibitors. Journal of Chemical Information and Modeling, 2010, 50, 1574-1588.	5.4	27

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37	Receptor-based 3D-QSAR studies of checkpoint Wee1 kinase inhibitors. European Journal of Medicinal Chemistry, 2009, 44, 1383-1395.	5.5	16
38	How amantadine and rimantadine inhibit proton transport in the M2 protein channel. Journal of Molecular Graphics and Modelling, 2008, 27, 342-348.	2.4	71
39	Source of High Pathogenicity of an Avian Influenza Virus H5N1: Why H5 Is Better Cleaved by Furin. Biophysical Journal, 2008, 95, 128-134.	0.5	39
40	Computational Studies of HIV-1 Integrase and its Inhibitors. Current Computer-Aided Drug Design, 2007, 3, 160-190.	1.2	7
41	On the Lower Susceptibility of Oseltamivir to Influenza Neuraminidase Subtype N1 than Those in N2 and N9. Biophysical Journal, 2007, 92, 798-807.	0.5	37
42	Hybrid Quantum Mechanical/Molecular Mechanical Molecular Dynamics Simulations of HIV-1 Integrase/Inhibitor Complexes. Biophysical Journal, 2007, 93, 3613-3626.	0.5	15
43	Understanding of Drug-Target Interactions: A case Study in Influenza Virus A Subtype H5N1. AIP Conference Proceedings, 2007, , .	0.4	0
44	Theoretical study on the HIV-1 integrase inhibitor 1-(5-chloroindol-3-yl)-3-hydroxy-3-(2H-tetrazol-5-yl)-propenone (5CITEP). Journal of Molecular Structure, 2007, 844-845, 208-214.	3.6	4