Thana Sutthibutpong

List of Publications by Year
in descending order

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26 papers	423 citations	933447 10 h-index	752698 20 g-index
30 all docs	30 docs citations	30 times ranked	551 citing authors

#	Article	IF	Citations
1	Structural diversity of supercoiled DNA. Nature Communications, 2015, 6, 8440.	12.8	122
2	Long-range correlations in the mechanics of small DNA circles under topological stress revealed by multi-scale simulation. Nucleic Acids Research, 2016, 44, gkw815.	14.5	54
3	Protein/DNA interactions in complex DNA topologies: expect the unexpected. Biophysical Reviews, 2016, 8, 233-243.	3.2	37
4	Simulations of DNA topoisomerase 1B bound to supercoiled DNA reveal changes in the flexibility pattern of the enzyme and a secondary proteinâ€“DNA binding site. Nucleic Acids Research, 2014, 42, 9304-9312.	14.5	29
5	Comparison of Molecular Contours for Measuring Writhe in Atomistic Supercoiled DNA. Journal of Chemical Theory and Computation, 2015, 11, 2768-2775.	5.3	22
6	Effects of helix and fingertip mutations on the thermostability of xyn11A investigated by molecular dynamics simulations and enzyme activity assays. Journal of Biomolecular Structure and Dynamics, 2018, 36, 3978-3992.	3.5	19
7	Visualizing nanoscale phase morphology for understanding photovoltaic performance of PTB7: PC71BM solar cell. Applied Surface Science, 2017, 422, 509-517.	6.1	16
8	Synergistic effects between the additions of a disulphide bridge and an N-terminal hydrophobic sidechain on the binding pocket tilting and enhanced Xyn11A activity. Archives of Biochemistry and Biophysics, 2019, 672, 108068.	3.0	15
9	Molecular dynamics study of natural rubberâ€“fullerene composites: connecting microscopic properties to macroscopic behavior. Physical Chemistry Chemical Physics, 2019, 21, 19403-19413.	2.8	15
10	Unveiling the Fundamental Mechanisms of Graphene Oxide Selectivity on the Ascorbic Acid, Dopamine, and Uric Acid by Density Functional Theory Calculations and Charge Population Analysis. Sensors, 2021, 21, 2773.	3.8	10
11	Protein/DNA interactions in complex DNA topologies: expect the unexpected. Biophysical Reviews, 2016, 8, 145-155.	3.2	9
12	Effects of oligolignol sizes and binding modes on a GH11 xylanase inhibition revealed by molecular modeling techniques. Journal of Molecular Modeling, 2020, 26, 124.	1.8	9
13	Molecular dynamics study on the effects of charged amino acid distribution under low pH condition to the unfolding of hen egg white lysozyme and formation of beta strands. PLoS ONE, 2022, 17, e0249742.	2.5	9
14	In Silico Identification of Potential Sites for a Plastic-Degrading Enzyme by a Reverse Screening through the Protein Sequence Space and Molecular Dynamics Simulations. Molecules, 2022, 27, 3353.	3.8	7
15	Tunable tilted anisotropy of massless Dirac fermion in magnetic Kronig-Penney-type graphene. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 127, 114501.	2.7	6
16	Antibacterial Potential of a Novel Peptide from the Consensus Sequence of Dermaseptin Related Peptides Secreted by Agalychnis annae. Current Pharmaceutical Biotechnology, 2021, 22, 1216-1227.	1.6	6
17	Investigating lysozyme amyloid fibrillization by electrochemical impedance spectroscopy for application in lysozyme sensor. Journal of Electroanalytical Chemistry, 2021, 901, 115799.	3.8	5
18	Molecularly Imprinted Polymer-Amyloid Fibril-Based Electrochemical Biosensor for Ultrasensitive Detection of Tryptophan. Biosensors, 2022, 12, 291.	4.7	5

#	Article	IF	Citations
19	Atomistic Molecular Dynamics Simulations of DNA Minicircle Topoisomers: A Practical Guide to Setup, Performance, and Analysis. Methods in Molecular Biology, 2016, 1431, 195-219.	0.9	3
20	Effect of N-terminal modification on the mode of action between the Xyn11A and Xylotetraose. International Journal of Biological Macromolecules, 2021, 170, 240-247.	7.5	3
21	Molecular Mechanisms on the Selectivity Enhancement of Ascorbic Acid, Dopamine, and Uric Acid by Serine Oligomers Decoration on Graphene Oxide: A Molecular Dynamics Study. Molecules, 2021, 26, 2876.	3.8	3
22	Effects of the outer-cleft aromatic ring deletion on the resistivity of a GH11 xylanase to the lignin-like monolignol aggregates. Chemical Physics Letters, 2021, 762, 138141.	2.6	2
23	A molecular dynamics study on the local mobility of cis-polyisoprene within the mixed glassy/rubbery states induced by graphene planes. Modelling and Simulation in Materials Science and Engineering, 2021, 29, 045002.	2.0	2
24	Effects of L-serine amino acid functionalization on electronic properties of a graphene plane in comparison with oxygen functionalization. Journal of Molecular Modeling, 2020, 26, 206.	1.8	1
25	A Molecular Dynamics Study to Assess the Positive Ion Distribution and the Effects of Protonation on the N-terminus Region of a Xylanase. Journal of Physics: Conference Series, 2018, 1144, 012011.	0.4	0
26	Role of F124 in the inhibition of Bacillus firmus K-1 Xyn11A by monomeric aromatic phenolic compounds. Biocatalysis and Agricultural Biotechnology, 2021, 36, 102147.	3.1	0