

Chang-Guo Zhan

List of Publications by Year in descending order

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289
papers

10,905
citations

34016

52
h-index

48187

88
g-index

295
all docs

295
docs citations

295
times ranked

10114
citing authors

#	ARTICLE	IF	CITATIONS
1	Cocaine hydrolase blocks cocaine-induced dopamine transporter trafficking to the plasma membrane. <i>Addiction Biology</i> , 2022, 27, e13089.	1.4	8
2	Replenishing HDL with synthetic HDL has multiple protective effects against sepsis in mice. <i>Science Signaling</i> , 2022, 15, eabl9322.	1.6	14
3	Generalized Methodology for the Quick Prediction of Variant SARS-CoV-2 Spike Protein Binding Affinities with Human Angiotensin-Converting Enzyme II. <i>Journal of Physical Chemistry B</i> , 2022, 126, 2353-2360.	1.2	7
4	Recovery of dopaminergic system after cocaine exposure and impact of a long-acting cocaine hydrolase. <i>Addiction Biology</i> , 2022, 27, .	1.4	6
5	Development of a Highly Efficient Long-Acting Cocaine Hydrolase Entity to Accelerate Cocaine Metabolism. <i>Bioconjugate Chemistry</i> , 2022, 33, 1340-1349.	1.8	9
6	Fast Prediction of Binding Affinities of SARS-CoV-2 Spike Protein and Its Mutants with Antibodies through Intermolecular Interaction Modeling-Based Machine Learning. <i>Journal of Physical Chemistry B</i> , 2022, 126, 5194-5206.	1.2	4
7	Development of pharmacotherapies for abdominal aortic aneurysms. <i>Biomedicine and Pharmacotherapy</i> , 2022, 153, 113340.	2.5	7
8	Systematic Structure-Based Virtual Screening Approach to Antibody Selection and Design of a Humanized Antibody against Multiple Addictive Opioids without Affecting Treatment Agents Naloxone and Naltrexone. <i>ACS Chemical Neuroscience</i> , 2021, 12, 184-194.	1.7	2
9	The crystal structure of <sc>AbsH3</sc>: A putative flavin adenine dinucleotide-dependent reductase in the abyssomicin biosynthesis pathway. <i>Proteins: Structure, Function and Bioinformatics</i> , 2021, 89, 132-137.	1.5	1
10	Reply to Ma and Wang: Reliability of various in vitro activity assays on SARS-CoV-2 main protease inhibitors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	15
11	Clinical data mining reveals analgesic effects of lapatinib in cancer patients. <i>Scientific Reports</i> , 2021, 11, 3528.	1.6	1
12	Synthesis, Molecular Pharmacology, and Structure-Activity Relationships of 3-(Indanoyl)indoles as Selective Cannabinoid Type 2 Receptor Antagonists. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 6381-6396.	2.9	12
13	Binding Mode of Human Norepinephrine Transporter Interacting with HIV-1 Tat. <i>ACS Chemical Neuroscience</i> , 2021, 12, 1519-1527.	1.7	4
14	Fast Prediction of Binding Affinities of the SARS-CoV-2 Spike Protein Mutant N501Y (UK Variant) with ACE2 and Miniprotein Drug Candidates. <i>Journal of Physical Chemistry B</i> , 2021, 125, 4330-4336.	1.2	30
15	Rational Redesign of Enzyme via the Combination of Quantum Mechanics/Molecular Mechanics, Molecular Dynamics, and Structural Biology Study. <i>Journal of the American Chemical Society</i> , 2021, 143, 15674-15687.	6.6	32
16	Reply to Behnam and Klein: Potential role of the His-tag in C-terminal His-tagged SARS-CoV-2 main protease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	1
17	Indole-Containing Amidinohydrazones as Nonpeptide, Dual RXFP3/4 Agonists: Synthesis, Structure-Activity Relationship, and Molecular Modeling Studies. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 17866-17886.	2.9	4
18	OleD Loki as a Catalyst for Hydroxamate Glycosylation. <i>ChemBioChem</i> , 2020, 21, 952-957.	1.3	4

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19	Catalytic Roles of Coenzyme Pyridoxal-5-phosphate (PLP) in PLP-Dependent Enzymes: Reaction Pathway for Methionine- ¹³ C-Lyase-Catalyzed α -Methionine Depletion. <i>ACS Catalysis</i> , 2020, 10, 2198-2210.	5.5	14
20	Reengineering of Albumin-Fused Cocaine Hydrolase Coch1 (TV-1380) to Prolong Its Biological Half-Life. <i>AAPS Journal</i> , 2020, 22, 5.	2.2	9
21	7-Azaindolequinolidinones (7-AIQD): A novel class of cannabinoid 1 (CB1) and cannabinoid 2 (CB2) receptor ligands. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2020, 30, 127501.	1.0	4
22	Identify potent SARS-CoV-2 main protease inhibitors via accelerated free energy perturbation-based virtual screening of existing drugs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 27381-27387.	3.3	174
23	Binding Modes and Selectivity of Cannabinoid 1 (CB1) and Cannabinoid 2 (CB2) Receptor Ligands. <i>ACS Chemical Neuroscience</i> , 2020, 11, 3455-3463.	1.7	15
24	Pictet-Spengler condensations using 4-(2-aminoethyl)coumarins. <i>New Journal of Chemistry</i> , 2020, 44, 13415-13429.	1.4	4
25	Effects of Cebranopadol on Cocaine-induced Hyperactivity and Cocaine Pharmacokinetics in Rats. <i>Scientific Reports</i> , 2020, 10, 9254.	1.6	10
26	Clinical potential of a rationally engineered enzyme for treatment of cocaine dependence: Long-lasting blocking of the psychostimulant, discriminative stimulus, and reinforcing effects of cocaine. <i>Neuropharmacology</i> , 2020, 176, 108251.	2.0	12
27	Efficient Cocaine Degradation by Cocaine Esterase-Loaded Red Blood Cells. <i>Frontiers in Physiology</i> , 2020, 11, 573492.	1.3	1
28	Epigenetic Regulation of Wnt Signaling by Carboxamide-Substituted Benzhydryl Amines that Function as Histone Demethylase Inhibitors. <i>IScience</i> , 2020, 23, 101795.	1.9	14
29	A plant-derived cocaine hydrolase prevents cocaine overdose lethality and attenuates cocaine-induced drug seeking behavior. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2020, 102, 109961.	2.5	4
30	The H ₂ /H ⁺ Redox Couple and Absolute Hydration Energy of H ⁺ . <i>Journal of Physical Chemistry A</i> , 2020, 124, 6084-6095.	1.1	10
31	Structure-Based Design and Discovery of a Long-Acting Cocaine Hydrolase Mutant with Improved Binding Affinity to Neonatal Fc Receptor for Treatment of Cocaine Abuse. <i>AAPS Journal</i> , 2020, 22, 62.	2.2	12
32	DREAM-in-CDM Approach and Identification of a New Generation of Anti-inflammatory Drugs Targeting mPGES-1. <i>Scientific Reports</i> , 2020, 10, 10187.	1.6	13
33	Catalytic activities of cocaine hydrolases against the most toxic cocaine metabolite norcoethylenol. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 1968-1977.	1.5	12
34	Cebranopadol reduces cocaine self-administration in male rats: Dose, treatment and safety consideration. <i>Neuropharmacology</i> , 2020, 172, 108128.	2.0	6
35	In Silico Observation of the Conformational Opening of the Glutathione-Binding Site of Microsomal Prostaglandin E2 Synthase-1. <i>Journal of Chemical Information and Modeling</i> , 2019, 59, 3839-3845.	2.5	6
36	Regioselective synthesis of 2- and 4-diarylpiperidine ethers and their inhibitory activities against phosphodiesterase 4B. <i>Journal of Molecular Structure</i> , 2019, 1196, 455-461.	1.8	1

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37	Dimerization of human butyrylcholinesterase expressed in bacterium for development of a thermally stable bioscavenger of organophosphorus compounds. <i>Chemico-Biological Interactions</i> , 2019, 310, 108756.	1.7	4
38	PEGylation but Not Fc-Fusion Improves in Vivo Residence Time of a Thermostable Mutant of Bacterial Cocaine Esterase. <i>Bioconjugate Chemistry</i> , 2019, 30, 3021-3027.	1.8	2
39	Development of a novel prostate apoptosis response-4 (Par-4) protein entity with an extended duration of action for therapeutic treatment of cancer. <i>Protein Engineering, Design and Selection</i> , 2019, 32, 159-166.	1.0	6
40	Discovery of potent and selective butyrylcholinesterase inhibitors through the use of pharmacophore-based screening. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2019, 29, 126754.	1.0	19
41	In vivo characterization of toxicity of norcoethylethylene and norcocaine identified as the most toxic cocaine metabolites in male mice. <i>Drug and Alcohol Dependence</i> , 2019, 204, 107462.	1.6	14
42	Absolute Binding Free Energy Calculation and Design of a Subnanomolar Inhibitor of Phosphodiesterase-10. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 2099-2111.	2.9	47
43	Structure-based virtual screening leading to discovery of highly selective butyrylcholinesterase inhibitors with solanaceous alkaloid scaffolds. <i>Chemico-Biological Interactions</i> , 2019, 308, 372-376.	1.7	12
44	Development of a long-acting Fc-fused cocaine hydrolase with improved yield of protein expression. <i>Chemico-Biological Interactions</i> , 2019, 306, 89-95.	1.7	17
45	Semisynthetic aurones inhibit tubulin polymerization at the colchicine-binding site and repress PC-3 tumor xenografts in nude mice and myc-induced T-ALL in zebrafish. <i>Scientific Reports</i> , 2019, 9, 6439.	1.6	15
46	Mutational effects of human dopamine transporter at tyrosine88, lysine92, and histidine547 on basal and HIV-1 Tat-inhibited dopamine transport. <i>Scientific Reports</i> , 2019, 9, 3843.	1.6	8
47	An Underlying Mechanism of Dual Wnt Inhibition and AMPK Activation: Mitochondrial Uncouplers Masquerading as Wnt Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 11348-11358.	2.9	15
48	Correlation between the pKa and nuclear shielding of α -hydrogen of ketones. <i>Journal of Molecular Modeling</i> , 2019, 25, 354.	0.8	3
49	Molecular insights into the mechanism of 4-hydroxyphenylpyruvate dioxygenase inhibition: enzyme kinetics, X-ray crystallography and computational simulations. <i>FEBS Journal</i> , 2019, 286, 975-990.	2.2	68
50	Crystal Structure of 4-Hydroxyphenylpyruvate Dioxygenase in Complex with Substrate Reveals a New Starting Point for Herbicide Discovery. <i>Research</i> , 2019, 2019, 2602414.	2.8	62
51	Flipped Phenyl Ring Orientations of Dopamine Binding with Human and Drosophila Dopamine Transporters: Remarkable Role of Three Nonconserved Residues. <i>ACS Chemical Neuroscience</i> , 2018, 9, 1426-1431.	1.7	2
52	Development of Fc-Fused Cocaine Hydrolase for Cocaine Addiction Treatment: Catalytic and Pharmacokinetic Properties. <i>AAPS Journal</i> , 2018, 20, 53.	2.2	13
53	Structure-based discovery of mPGES-1 inhibitors suitable for preclinical testing in wild-type mice as a new generation of anti-inflammatory drugs. <i>Scientific Reports</i> , 2018, 8, 5205.	1.6	34
54	Design, synthesis, and discovery of 5-((1,3-diphenyl-1H-pyrazol-4-yl)methylene)pyrimidine-2,4,6-trihydroxy-1,3,5-triazine-2-thione. <i>Chemico-Biological Interactions</i> , 2018, 28, 858-862.	1.0	11

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55	Improved Prediction of Blood-Brain Barrier Permeability Through Machine Learning with Combined Use of Molecular Property-Based Descriptors and Fingerprints. <i>AAPS Journal</i> , 2018, 20, 54.	2.2	50
56	The role of human dopamine transporter in NeuroAIDS. , 2018, 183, 78-89.		20
57	Phenylethynyl-substituted heterocycles inhibit cyclin D1 and induce the expression of cyclin-dependent kinase inhibitor p21Wif1/Cip1 in colorectal cancer cells. <i>MedChemComm</i> , 2018, 9, 87-99.	3.5	3
58	Effectiveness of a Cocaine Hydrolase for Cocaine Toxicity Treatment in Male and Female Rats. <i>AAPS Journal</i> , 2018, 20, 3.	2.2	15
59	Blocking drug activation as a therapeutic strategy to attenuate acute toxicity and physiological effects of heroin. <i>Scientific Reports</i> , 2018, 8, 16762.	1.6	8
60	Oligomerization and Catalytic Parameters of Human UDP-Glucuronosyltransferase 1A10: Expression and Characterization of the Recombinant Protein. <i>Drug Metabolism and Disposition</i> , 2018, 46, 1446-1452.	1.7	2
61	Correlations between the ¹ H NMR chemical shieldings and the pKa values of organic acids and amines. <i>Journal of Molecular Modeling</i> , 2018, 24, 146.	0.8	3
62	Kinetic characterization of cholinesterases and a therapeutically valuable cocaine hydrolase for their catalytic activities against heroin and its metabolite 6-monoacetylmorphine. <i>Chemico-Biological Interactions</i> , 2018, 293, 107-114.	1.7	10
63	Catalytic Reaction Mechanism for Drug Metabolism in Human Carboxylesterase-1: Cocaine Hydrolysis Pathway. <i>Molecular Pharmaceutics</i> , 2018, 15, 3871-3880.	2.3	21
64	Mccrearamycins A-D, Geldanamycin-Derived Cyclopentenone Macrolactams from an Eastern Kentucky Abandoned Coal Mine Microbe. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 2994-2998.	7.2	31
65	Mccrearamycins A-D, Geldanamycin-Derived Cyclopentenone Macrolactams from an Eastern Kentucky Abandoned Coal Mine Microbe. <i>Angewandte Chemie</i> , 2017, 129, 3040-3044.	1.6	4
66	The molecular basis of talin2's high affinity toward β 1-integrin. <i>Scientific Reports</i> , 2017, 7, 41989.	1.6	9
67	Polyclonal Antibodies in Microplates to Predict the Maximum Adsorption Activities of Enzyme/Mutants from Cell Lysates. <i>Protein Journal</i> , 2017, 36, 212-219.	0.7	2
68	Catalytic Mechanisms for Cofactor-Free Oxidase-Catalyzed Reactions: Reaction Pathways of Uricase-Catalyzed Oxidation and Hydration of Uric Acid. <i>ACS Catalysis</i> , 2017, 7, 4623-4636.	5.5	71
69	Design, synthesis, and biological activity of 5-phenyl-1,2,5,6-tetrahydro-3-bipyridine analogues as potential antagonists of nicotinic acetylcholine receptors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017, 27, 4350-4353.	1.0	2
70	Plant-expressed cocaine hydrolase variants of butyrylcholinesterase exhibit altered allosteric effects of cholinesterase activity and increased inhibitor sensitivity. <i>Scientific Reports</i> , 2017, 7, 10419.	1.6	29
71	High-throughput estimation of specific activities of enzyme/mutants in cell lysates through immunoturbidimetric assay of proteins. <i>Analytical Biochemistry</i> , 2017, 534, 91-98.	1.1	3
72	Data for high-throughput estimation of specific activities of enzyme/mutants in cell lysates through immunoturbidimetric assay of proteins. <i>Data in Brief</i> , 2017, 14, 220-245.	0.5	0

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73	Clinical Potential of an Enzyme-based Novel Therapy for Cocaine Overdose. <i>Scientific Reports</i> , 2017, 7, 15303.	1.6	24
74	Selective inhibitors of human mPGES-1 from structure-based computational screening. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017, 27, 3739-3743.	1.0	13
75	Allosteric modulatory effects of SRI-20041 and SRI-30827 on cocaine and HIV-1 Tat protein binding to human dopamine transporter. <i>Scientific Reports</i> , 2017, 7, 3694.	1.6	14
76	A quantitative LC-MS/MS method for simultaneous determination of cocaine and its metabolites in whole blood. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017, 134, 243-251.	1.4	33
77	A Practical System for High-Throughput Screening of Mutants of <i>Bacillus fastidiosus</i> Uricase. <i>Applied Biochemistry and Biotechnology</i> , 2017, 181, 667-681.	1.4	7
78	Actions of Butyrylcholinesterase Against Cocaine. , 2017, , 663-672.		3
79	Striking Effects of Storage Buffers on Apparent Half-Lives of the Activity of <i>Pseudomonas aeruginosa</i> Arylsulfatase. <i>Protein Journal</i> , 2016, 35, 283-290.	0.7	1
80	Role of Histidine 547 of Human Dopamine Transporter in Molecular Interaction with HIV-1 Tat and Dopamine Uptake. <i>Scientific Reports</i> , 2016, 6, 27314.	1.6	15
81	Reply to Curry and Coombs: Benzoic acid is formed predominantly from the benzoyl ester hydrolysis in the presence of cocaine hydrolase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E2102-E2103.	3.3	0
82	Molecular mechanism: the human dopamine transporter histidine 547 regulates basal and HIV-1 Tat protein-inhibited dopamine transport. <i>Scientific Reports</i> , 2016, 6, 39048.	1.6	17
83	Unexpected Reaction Pathway for butyrylcholinesterase-catalyzed inactivation of "hunger hormone" ghrelin. <i>Scientific Reports</i> , 2016, 6, 22322.	1.6	13
84	Effects of a cocaine hydrolase engineered from human butyrylcholinesterase on metabolic profile of cocaine in rats. <i>Chemico-Biological Interactions</i> , 2016, 259, 104-109.	1.7	7
85	Facile Alkaline Lysis of <i>Escherichia coli</i> Cells in High-Throughput Mode for Screening Enzyme Mutants: Arylsulfatase as an Example. <i>Applied Biochemistry and Biotechnology</i> , 2016, 179, 545-557.	1.4	6
86	Free energy profiles of cocaine esterase-cocaine binding process by molecular dynamics and potential of mean force simulations. <i>Chemico-Biological Interactions</i> , 2016, 259, 142-147.	1.7	1
87	Potential anti-obesity effects of a long-acting cocaine hydrolase. <i>Chemico-Biological Interactions</i> , 2016, 259, 99-103.	1.7	5
88	Molecular modeling and redesign of alginate lyase from <i>Pseudomonas aeruginosa</i> for accelerating CRPA biofilm degradation. <i>Proteins: Structure, Function and Bioinformatics</i> , 2016, 84, 1875-1887.	1.5	11
89	Talin2-mediated traction force drives matrix degradation and cell invasion. <i>Journal of Cell Science</i> , 2016, 129, 3661-3674.	1.2	32
90	A Numerical Approach for Kinetic Analysis of the Nonexponential Thermoinactivation Process of Uricase. <i>Protein Journal</i> , 2016, 35, 318-329.	0.7	5

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91	Computational modeling of human dopamine transporter structures, mechanism and its interaction with HIV-1 transactivator of transcription. <i>Future Medicinal Chemistry</i> , 2016, 8, 2077-2089.	1.1	17
92	Extracorporeal delivery of a therapeutic enzyme. <i>Scientific Reports</i> , 2016, 6, 30888.	1.6	1
93	Plant expression of cocaine hydrolase-Fc fusion protein for treatment of cocaine abuse. <i>BMC Biotechnology</i> , 2016, 16, 72.	1.7	5
94	Reaction pathway for cocaine hydrolase-catalyzed hydrolysis of (+)-cocaine. <i>Theoretical Chemistry Accounts</i> , 2016, 135, 1.	0.5	2
95	Metabolic Enzymes of Cocaine Metabolite Benzoylcegonine. <i>ACS Chemical Biology</i> , 2016, 11, 2186-2194.	1.6	27
96	HIV-1 transgenic rats display an increase in [³ H]dopamine uptake in the prefrontal cortex and striatum. <i>Journal of NeuroVirology</i> , 2016, 22, 282-292.	1.0	18
97	Long-acting cocaine hydrolase for addiction therapy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 422-427.	3.3	56
98	Cyclic GMP-mediated memory enhancement in the object recognition test by inhibitors of phosphodiesterase-2 in mice. <i>Psychopharmacology</i> , 2016, 233, 447-456.	1.5	34
99	Par-4 secretion: stoichiometry of 3-arylquinoline binding to vimentin. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 74-84.	1.5	17
100	Enzyme-Based Cocaine Pharmacotherapies: Current Status and Projections for the Future. , 2016, , 145-166.		1
101	Cocaine Hydrolases Designed from Butyrylcholinesterase. , 2016, , 187-225.		5
102	Modeling and Re-Engineering of <i>Azotobacter vinelandii</i> Alginate Lyase to Enhance Its Catalytic Efficiency for Accelerating Biofilm Degradation. <i>PLoS ONE</i> , 2016, 11, e0156197.	1.1	26
103	Kinetic characterization of a cocaine hydrolase engineered from mouse butyrylcholinesterase. <i>Biochemical Journal</i> , 2015, 466, 243-251.	1.7	16
104	Fundamental reaction pathway and free energy profile of proteasome inhibition by syringolin A (SylA). <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 6857-6865.	1.5	28
105	Mutations at Tyrosine 88, Lysine 92 and Tyrosine 470 of Human Dopamine Transporter Result in an Attenuation of HIV-1 Tat-Induced Inhibition of Dopamine Transport. <i>Journal of NeuroImmune Pharmacology</i> , 2015, 10, 122-135.	2.1	29
106	Molecular Mechanism of HIV-1 Tat Interacting with Human Dopamine Transporter. <i>ACS Chemical Neuroscience</i> , 2015, 6, 658-665.	1.7	41
107	Proteasome Inhibitors with Pyrazole Scaffolds from Structure-Based Virtual Screening. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 2036-2041.	2.9	45
108	Reaction pathway and free energy barrier for urea elimination in aqueous solution. <i>Chemical Physics Letters</i> , 2015, 625, 143-146.	1.2	7

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109	Crystal structure of <i>Bacillus fastidiosus</i> uricase reveals an unexpected folding of the C-terminus residues crucial for thermostability under physiological conditions. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 7973-7986.	1.7	26
110	Sulfhydryl-specific PEGylation of phosphotriesterase cysteine mutants for organophosphate detoxification. <i>Protein Engineering, Design and Selection</i> , 2015, 28, 501-506.	1.0	3
111	Influence of Sugar Amine Regiochemistry on Digitoxigenin Neoglycoside Anticancer Activity. <i>ACS Medicinal Chemistry Letters</i> , 2015, 6, 1053-1058.	1.3	21
112	Kinetic characterization of high-activity mutants of human butyrylcholinesterase for the cocaine metabolite norcocaine. <i>Biochemical Journal</i> , 2014, 457, 197-206.	1.7	39
113	Mechanistic insights into the substrate recognition of PPO: toward the rational design of effective inhibitors. <i>Future Medicinal Chemistry</i> , 2014, 6, 597-599.	1.1	11
114	Halogenated diarylacetylenes repress c-myc expression in cancer cells. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 3638-3640.	1.0	10
115	Binding free energies for nicotine analogs inhibiting cytochrome P450 2A6 by a combined use of molecular dynamics simulations and QM/MM-PBSA calculations. <i>Bioorganic and Medicinal Chemistry</i> , 2014, 22, 2149-2156.	1.4	17
116	Novel Mycosin Protease MycP ₁ Inhibitors Identified by Virtual Screening and 4D Fingerprints. <i>Journal of Chemical Information and Modeling</i> , 2014, 54, 1166-1173.	2.5	14
117	Modeling in vitro inhibition of butyrylcholinesterase using molecular docking, multi-linear regression and artificial neural network approaches. <i>Bioorganic and Medicinal Chemistry</i> , 2014, 22, 538-549.	1.4	27
118	Kinetic characterization of human butyrylcholinesterase mutants for the hydrolysis of cocaethylene. <i>Biochemical Journal</i> , 2014, 460, 447-457.	1.7	29
119	Arylquins target vimentin to trigger Par-4 secretion for tumor cell apoptosis. <i>Nature Chemical Biology</i> , 2014, 10, 924-926.	3.9	54
120	Application of the 4D Fingerprint Method with a Robust Scoring Function for Scaffold-Hopping and Drug Repurposing Strategies. <i>Journal of Chemical Information and Modeling</i> , 2014, 54, 2834-2845.	2.5	12
121	A model of glycosylated human butyrylcholinesterase. <i>Molecular BioSystems</i> , 2014, 10, 348-354.	2.9	7
122	Rational Design, Preparation, and Characterization of a Therapeutic Enzyme Mutant with Improved Stability and Function for Cocaine Detoxification. <i>ACS Chemical Biology</i> , 2014, 9, 1764-1772.	1.6	37
123	A highly efficient cocaine-detoxifying enzyme obtained by computational design. <i>Nature Communications</i> , 2014, 5, 3457.	5.8	67
124	Reaction pathways and free energy profiles for cholinesterase-catalyzed hydrolysis of 6-monoacetylmorphine. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 2214-2227.	1.5	28
125	Amino-acid mutations to extend the biological half-life of a therapeutically valuable mutant of human butyrylcholinesterase. <i>Chemico-Biological Interactions</i> , 2014, 214, 18-25.	1.7	14
126	Selective immunoproteasome inhibitors with non-peptide scaffolds identified from structure-based virtual screening. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 3614-3617.	1.0	17

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127	Microscopic modes and free energies for topoisomerase I-DNA covalent complex binding with non-camptothecin inhibitors by molecular docking and dynamics simulations. <i>Theoretical Chemistry Accounts</i> , 2013, 132, 1.	0.5	4
128	Plants as a source of butyrylcholinesterase variants designed for enhanced cocaine hydrolase activity. <i>Chemico-Biological Interactions</i> , 2013, 203, 217-220.	1.7	15
129	Mutation of Tyrosine 470 of Human Dopamine Transporter is Critical for HIV-1 Tat-Induced Inhibition of Dopamine Transport and Transporter Conformational Transitions. <i>Journal of Neuroimmune Pharmacology</i> , 2013, 8, 975-987.	2.1	47
130	Catalytic activities of a cocaine hydrolase engineered from human butyrylcholinesterase against (+)- and (âˆ”)-cocaine. <i>Chemico-Biological Interactions</i> , 2013, 203, 57-62.	1.7	16
131	Substrate selectivity of high-activity mutants of human butyrylcholinesterase. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 7477.	1.5	31
132	Fundamental Reaction Pathway and Free Energy Profile for Butyrylcholinesterase-Catalyzed Hydrolysis of Heroin. <i>Biochemistry</i> , 2013, 52, 6467-6479.	1.2	35
133	Fluorinated <i>N,N</i> -Dialkylaminostilbenes Repress Colon Cancer by Targeting Methionine <i>S</i> -Adenosyltransferase 2A. <i>ACS Chemical Biology</i> , 2013, 8, 796-803.	1.6	50
134	Fundamental Reaction Pathway for Peptide Metabolism by Proteasome: Insights from First-Principles Quantum Mechanical/Molecular Mechanical Free Energy Calculations. <i>Journal of Physical Chemistry B</i> , 2013, 117, 13418-13434.	1.2	36
135	Computational gibberellinâ€binding channel discovery unraveling the unexpected perception mechanism of hormone signal by gibberellin receptor. <i>Journal of Computational Chemistry</i> , 2013, 34, 2055-2064.	1.5	7
136	Binding structures and energies of the human neonatal Fc receptor with human Fc and its mutants by molecular modeling and dynamics simulations. <i>Molecular BioSystems</i> , 2013, 9, 3047.	2.9	14
137	Reaction pathways and free energy profiles for spontaneous hydrolysis of urea and tetramethylurea: unexpected substituent effects. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 7595.	1.5	21
138	Computational Modeling of Solvent Effects on Protein-Ligand Interactions Using Fully Polarizable Continuum Model and Rational Drug Design. <i>Communications in Computational Physics</i> , 2013, 13, 31-60.	0.7	8
139	Protein flexibility and conformational states of <i>Leishmania</i> antigen eIF-4A: identification of a novel plausible protein adjuvant using comparative genomics and molecular modeling. <i>Journal of Biomolecular Structure and Dynamics</i> , 2013, 31, 841-853.	2.0	2
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