

Shulin Zhuang

List of Publications by Year in descending order

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79
papers

3,307
citations

147801

31
h-index

149698

56
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81
all docs

81
docs citations

81
times ranked

4218
citing authors

#	ARTICLE	IF	CITATIONS
1	The Genomes of <i>Oryza sativa</i> : A History of Duplications. <i>PLoS Biology</i> , 2005, 3, e38.	5.6	808
2	Thyroid Disruption by Bisphenol S Analogues via Thyroid Hormone Receptor β : <i>In Vitro</i> , <i>In Vivo</i> , and Molecular Dynamics Simulation Study. <i>Environmental Science & Technology</i> , 2018, 52, 6617-6625.	10.0	153
3	Interactions of benzotriazole UV stabilizers with human serum albumin: Atomic insights revealed by biosensors, spectroscopies and molecular dynamics simulations. <i>Chemosphere</i> , 2016, 144, 1050-1059.	8.2	127
4	Effects of triazole fungicides on androgenic disruption and CYP3A4 enzyme activity. <i>Environmental Pollution</i> , 2017, 222, 504-512.	7.5	118
5	Recent Advances on Endocrine Disrupting Effects of UV Filters. <i>International Journal of Environmental Research and Public Health</i> , 2016, 13, 782.	2.6	114
6	Side Chains of Parabens Modulate Antiandrogenic Activity: <i>In Vitro</i> and Molecular Docking Studies. <i>Environmental Science & Technology</i> , 2017, 51, 6452-6460.	10.0	100
7	Development of chiral stationary phases for high-performance liquid chromatographic separation. <i>TrAC - Trends in Analytical Chemistry</i> , 2012, 39, 180-194.	11.4	86
8	Benzotriazole UV 328 and UV-P showed distinct antiandrogenic activity upon human CYP3A4-mediated biotransformation. <i>Environmental Pollution</i> , 2017, 220, 616-624.	7.5	80
9	Disruption of the Hormonal Network and the Enantioselectivity of Bifenthrin in Trophoblast: Maternal-Fetal Health Risk of Chiral Pesticides. <i>Environmental Science & Technology</i> , 2014, 48, 8109-8116.	10.0	77
10	Olfactory biosensor for insect semiochemicals analysis by impedance sensing of odorant-binding proteins on interdigitated electrodes. <i>Biosensors and Bioelectronics</i> , 2015, 67, 662-669.	10.1	71
11	Probing the Molecular Interaction of Triazole Fungicides with Human Serum Albumin by Multispectroscopic Techniques and Molecular Modeling. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 7203-7211.	5.2	70
12	Olfactory biosensor using odorant-binding proteins from honeybee: Ligands of floral odors and pheromones detection by electrochemical impedance. <i>Sensors and Actuators B: Chemical</i> , 2014, 193, 420-427.	7.8	63
13	Molecular interactions of benzophenone UV filters with human serum albumin revealed by spectroscopic techniques and molecular modeling. <i>Journal of Hazardous Materials</i> , 2013, 263, 618-626.	12.4	62
14	Impedance sensing and molecular modeling of an olfactory biosensor based on chemosensory proteins of honeybee. <i>Biosensors and Bioelectronics</i> , 2013, 40, 174-179.	10.1	61
15	Enantioselective developmental toxicity and immunotoxicity of pyraclofos toward zebrafish (<i>Danio rerio</i>). <i>Toxicology and Applied Pharmacology</i> , 2014, 275, 1-10.	4.0	55
16	Associations between polymorphisms of long non-coding RNA MEG3 and risk of colorectal cancer in Chinese. <i>Oncotarget</i> , 2016, 7, 19054-19059.	1.8	55
17	Atomic-scale investigation of the interactions between tetrabromobisphenol A, tetrabromobisphenol S and bovine trypsin by spectroscopies and molecular dynamics simulations. <i>Journal of Hazardous Materials</i> , 2015, 299, 486-494.	12.4	52
18	Temporal variation of oxidative potential of water soluble components of ambient PM _{2.5} measured by dithiothreitol (DTT) assay. <i>Science of the Total Environment</i> , 2019, 649, 969-978.	8.0	52

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19	Atomic Insights into Distinct Hormonal Activities of Bisphenol A Analogues toward PPAR β and ER α Receptors. <i>Chemical Research in Toxicology</i> , 2014, 27, 1769-1779.	3.3	51
20	Occurrence of polybrominated diphenyl ethers in indoor air and dust in Hangzhou, China: Level, role of electric appliances, and human exposure. <i>Environmental Pollution</i> , 2016, 218, 942-949.	7.5	45
21	Pentabromoethylbenzene Exposure Induces Transcriptome Aberration and Thyroid Dysfunction: <i>In Vitro</i> , <i>In Silico</i> , and <i>In Vivo</i> Investigations. <i>Environmental Science & Technology</i> , 2020, 54, 12335-12344.	10.0	45
22	Molecular recognition of floral volatile with two olfactory related proteins in the Eastern honeybee (<i>Apis cerana</i>). <i>International Journal of Biological Macromolecules</i> , 2013, 56, 114-121.	7.5	41
23	<i>In silico</i> prediction of chemical toxicity on avian species using chemical category approaches. <i>Chemosphere</i> , 2015, 122, 280-287.	8.2	41
24	Distinct mechanisms of endocrine disruption of DDT-related pesticides toward estrogen receptor α and estrogen-related receptor β . <i>Environmental Toxicology and Chemistry</i> , 2012, 31, 2597-2605.	4.3	39
25	Inhibited Nitric Oxide Production of Human Endothelial Nitric Oxide Synthase by Nitrated and Oxygenated Polycyclic Aromatic Hydrocarbons. <i>Environmental Science & Technology</i> , 2020, 54, 2922-2930.	10.0	39
26	Protein-Protein Interaction Regulates Proteins' Mechanical Stability. <i>Journal of Molecular Biology</i> , 2008, 378, 1132-1141.	4.2	38
27	Enantioselective Analysis and Degradation Studies of Isocarbophos in Soils by Chiral Liquid Chromatography-Tandem Mass Spectrometry. <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 10188-10195.	5.2	38
28	Enantioselective endocrine-disrupting effects of bifenthrin on hormone synthesis in rat ovarian cells. <i>Toxicology</i> , 2011, 290, 42-49.	4.2	37
29	Binding interaction between a queen pheromone component HOB and pheromone binding protein ASP1 of <i>Apis cerana</i> . <i>International Journal of Biological Macromolecules</i> , 2015, 72, 430-436.	7.5	34
30	Sorption of polycyclic aromatic hydrocarbons to soils enhanced by heavy metals: perspective of molecular interactions. <i>Journal of Soils and Sediments</i> , 2016, 16, 1509-1518.	3.0	34
31	<i>In vitro</i> and <i>in silico</i> investigations of the binding interactions between chlorophenols and trypsin. <i>Journal of Hazardous Materials</i> , 2014, 278, 55-65.	12.4	33
32	The evaluation of endocrine disrupting effects of tert-butylphenols towards estrogenic receptor α , androgen receptor and thyroid hormone receptor β and aquatic toxicities towards freshwater organisms. <i>Environmental Pollution</i> , 2018, 240, 396-402.	7.5	30
33	Binding Specificity Determines the Cytochrome P450 3A4 Mediated Enantioselective Metabolism of Metconazole. <i>Journal of Physical Chemistry B</i> , 2018, 122, 1176-1184.	2.6	29
34	<i>In silico</i> prediction of chemical aquatic toxicity with chemical category approaches and substructural alerts. <i>Toxicology Research</i> , 2015, 4, 452-463.	2.1	28
35	<i>In vitro</i> and <i>in silico</i> investigations of the binary-mixture toxicity of phthalate esters and cadmium (II) to <i>Vibrio qinghaiensis</i> sp.-Q67. <i>Science of the Total Environment</i> , 2017, 580, 1078-1084.	8.0	28
36	The Involvement of ER-stress and ROS Generation in Difenconazole-Induced Hepatocellular Toxicity. <i>Toxicology Research</i> , 2015, 4, 1195-1203.	2.1	24

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37	Study of the inhibition of cyclin-dependent kinases with roscovitine and indirubin-3-oxime from molecular dynamics simulations. <i>Journal of Molecular Modeling</i> , 2006, 13, 79-89.	1.8	22
38	Insights into unbinding mechanisms upon two mutations investigated by molecular dynamics study of GSK3 β -axin complex: Role of packing hydrophobic residues. <i>Proteins: Structure, Function and Bioinformatics</i> , 2007, 67, 941-949.	2.6	22
39	Carcinogenic Risk of 2,6-Di- <i>tert</i> -Butylphenol and Its Quinone Metabolite 2,6-DTBO Through Their Interruption of RAR β : <i>In Vivo</i> , <i>In Vitro</i> , and <i>In Silico</i> Investigations. <i>Environmental Science & Technology</i> , 2022, 56, 480-490.	10.0	22
40	Nanoplasmonic monitoring of odorants binding to olfactory proteins from honeybee as biosensor for chemical detection. <i>Sensors and Actuators B: Chemical</i> , 2015, 221, 341-349.	7.8	21
41	Low Concentrations of <i>o,p'</i> -DDT Inhibit Gene Expression and Prostaglandin Synthesis by Estrogen Receptor-Independent Mechanism in Rat Ovarian Cells. <i>PLoS ONE</i> , 2012, 7, e49916.	2.5	20
42	Enantioselective determination of carboxyl acid amide fungicide mandipropamid in vegetables and fruits by chiral LC coupled with MS/MS. <i>Journal of Separation Science</i> , 2014, 37, 211-218.	2.5	19
43	Mechanical Design of the Third FnIII Domain of Tenascin-C. <i>Journal of Molecular Biology</i> , 2009, 386, 1327-1342.	4.2	18
44	Different Enantioselective Degradation of Pyraclofos in Soils. <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 4173-4178.	5.2	18
45	Some Insights into the Stereochemistry of Inhibition of Macrophage Migration Inhibitory Factor with 2-Fluoro- <i>p</i> -hydroxycinnamate and Its Analogues from Molecular Dynamics Simulations. <i>Journal of Medicinal Chemistry</i> , 2005, 48, 7208-7214.	6.4	16
46	Thyroid Dysfunction of Zebrafish (<i>Danio rerio</i>) after Early-Life Exposure and Discontinued Exposure to Tetrabromobiphenyl (BB-80) and OH-BB-80. <i>Environmental Science & Technology</i> , 2022, 56, 2519-2528.	10.0	16
47	Enantioselective separation and simultaneous determination of fenarimol and nuarimol in fruits, vegetables, and soil by liquid chromatography-tandem mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 404, 1983-1991.	3.7	15
48	Elucidation of the Enantioselective Enzymatic Hydrolysis of Chiral Herbicide Dichlorprop Methyl by Chemical Modification. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 1924-1930.	5.2	14
49	Engineered Bi-Histidine Metal Chelation Sites Map the Structure of the Mechanical Unfolding Transition State of an Elastomeric Protein Domain GB1. <i>Biophysical Journal</i> , 2012, 103, 807-816.	0.5	14
50	Enantioselective determination of acaricide etoxazole in orange pulp, peel, and whole orange by chiral liquid chromatography with tandem mass spectrometry. <i>Journal of Separation Science</i> , 2015, 38, 599-604.	2.5	14
51	A selectivity study on mTOR/PI3K \pm inhibitors by homology modeling and 3D-QSAR. <i>Journal of Molecular Modeling</i> , 2012, 18, 171-186.	1.8	13
52	The molecular mechanism of the antagonistic activity of hydroxylated polybrominated biphenyl (OH-BB80) toward thyroid receptor β . <i>Science of the Total Environment</i> , 2019, 697, 134040.	8.0	13
53	Endothelial dysfunction and transcriptome aberration in mouse aortas induced by black phosphorus quantum dots and nanosheets. <i>Nanoscale</i> , 2021, 13, 9018-9030.	5.6	13
54	Triplex Blue-shifting Hydrogen Bonds of ClO ₄ ⁻ in the Nanointerlayer of Montmorillonite Complexed with Cetyltrimethylammonium Cation from Hydrophilic to Hydrophobic Properties. <i>Environmental Science & Technology</i> , 2013, 47, 11013-11022.	10.0	12

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55	Enhanced Disrupting Effect of Benzophenone-1 Chlorination Byproducts to the Androgen Receptor: Cell-Based Assays and Gaussian Accelerated Molecular Dynamics Simulations. <i>Chemical Research in Toxicology</i> , 2021, 34, 1140-1149.	3.3	12
56	Role of phosphorylated Thr-197 in the catalytic subunit of cAMP-dependent protein kinase. <i>Computational and Theoretical Chemistry</i> , 2007, 805, 9-15.	1.5	11
57	Evidence for DNA-diquat interaction and cytotoxicity in in vitro rat cells. <i>Environmental Chemistry Letters</i> , 2012, 10, 35-39.	16.2	11
58	The fungicide difenoconazole alters mRNA expression levels of human CYP3A4 in HepG2 cells. <i>Environmental Chemistry Letters</i> , 2017, 15, 673-678.	16.2	11
59	Modulating the Mechanical Stability of Extracellular Matrix Protein Tenascin-C in a Controlled and Reversible Fashion. <i>Journal of Molecular Biology</i> , 2009, 390, 820-829.	4.2	10
60	Endothelial barrier dysfunction induced by anthracene and its nitrated or oxygenated derivatives at environmentally relevant levels. <i>Science of the Total Environment</i> , 2022, 802, 149793.	8.0	9
61	Phenotypic effects of Ehlers-Danlos syndrome-associated mutation on the FnIII domain of tenascin-X. <i>Protein Science</i> , 2010, 19, 2231-2239.	7.6	8
62	Molecular modeling revealed that ligand dissociation from thyroid hormone receptors is affected by receptor heterodimerization. <i>Journal of Molecular Graphics and Modelling</i> , 2013, 44, 155-160.	2.4	8
63	Characterization of toluene metabolism by methanotroph and its effect on methane oxidation. <i>Environmental Science and Pollution Research</i> , 2018, 25, 16816-16824.	5.3	8
64	Benzophenone-1 induced aberrant proliferation and metastasis of ovarian cancer cells via activated ER α and Wnt/ β -catenin signaling pathways. <i>Environmental Pollution</i> , 2022, 292, 118370.	7.5	8
65	Metabolic Susceptibility of 2-Chlorothioxanthone and Its Toxic Effects on mRNA and Protein Expression and Activities of Human CYP1A2 and CYP3A4 Enzymes. <i>Environmental Science & Technology</i> , 2018, 52, 11904-11912.	10.0	7
66	Investigation of the diastereomerism of dihydrobenzoxathiin SERMs for ER alpha by molecular modeling. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 7298-7305.	2.2	6
67	Dioxybenzone triggers enhanced estrogenic effect via metabolic activation: in silico, in vitro and in vivo investigation. <i>Environmental Pollution</i> , 2021, 268, 115766.	7.5	6
68	Fluorescence Investigation on the Interaction of a Prevalent Competitive Fluorescent Probe with Entomoc Odorant Binding Protein. <i>Spectroscopy Letters</i> , 2013, 46, 527-534.	1.0	5
69	2,6-Di-tert-butylphenol and its quinone metabolite trigger aberrant transcriptional responses in C57BL/6 mice liver. <i>Science of the Total Environment</i> , 2021, 778, 146322.	8.0	5
70	A Dominant form of Congenital Stationary Night Blindness (adCSNB) in a Large Chinese Family. <i>Annals of Human Genetics</i> , 2005, 69, 315-321.	0.8	4
71	Natural sunlight-driven aquatic toxicity enhancement of 2,6-di-tert-butylphenol toward <i>Photobacterium phosphoreum</i> . <i>Environmental Pollution</i> , 2019, 251, 66-71.	7.5	4
72	Sulforaphane inhibits CYP1A1 activity and promotes genotoxicity induced by 2,3,7,8-tetrachlorodibenzo-p-dioxin in vitro. <i>Toxicology and Applied Pharmacology</i> , 2013, 269, 226-232.	2.8	3

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73	Transcriptome aberration in mice uterus associated with steroid hormone response and inflammation induced by dioxybenzone and its metabolites. <i>Environmental Pollution</i> , 2021, 286, 117294.	7.5	3
74	A Dominant form of Congenital Stationary Night Blindness (adCSNB) in a Large Chinese Family. <i>Annals of Human Genetics</i> , 2005, 69, 315-321.	0.8	3
75	A study of the interaction of cinnamate analogues with macrophage migration inhibitory factor (MIF) and P1G mutant from molecular dynamics simulations. <i>Computational and Theoretical Chemistry</i> , 2006, 763, 97-101.	1.5	2
76	Investigation of the binding specificity of Erbin-PDZ affinity clamp by molecular dynamics simulations. <i>Computational and Theoretical Chemistry</i> , 2011, 963, 448-452.	2.5	2
77	Functional role of three water molecules buried within catalytic subunit of cyclic 3',5'-adenosine monophosphate-dependent protein kinase. <i>Computational and Theoretical Chemistry</i> , 2007, 809, 21-27.	1.5	1
78	Single Molecule Force Spectroscopy and Steered Molecular Dynamics Simulations Reveal the Mechanical Design of the Third FnIII Domain of Tenascin-C. <i>Biophysical Journal</i> , 2009, 96, 641a.	0.5	0
79	Modulating the Mechanical Stability of Extracellular Matrix Protein Tenascin-C in a Controlled and Reversible Fashion. <i>Biophysical Journal</i> , 2010, 98, 595a.	0.5	0