Shu-Shen Liu

List of Publications by Year
in descending order

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86	2,273	172457	254184
papers	citations	29 h-index	43 g-index

87	87	87	1363
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Prediction for the mixture toxicity of six organophosphorus pesticides to the luminescent bacterium Q67. Ecotoxicology and Environmental Safety, 2008, 71, 880-888.	6.0	97
2	VSMP:â€‰ A Novel Variable Selection and Modeling Method Based on the Prediction. Journal of Chemical Information and Computer Sciences, 2003, 43, 964-969.	2.8	96
3	Combined photobacterium toxicity of herbicide mixtures containing one insecticide. Chemosphere, 2009, 75, 381-388.	8.2	83
4	Predicting Hormetic Effects of Ionic Liquid Mixtures on Luciferase Activity Using the Concentration Addition Model. Environmental Science & Technology, 2011, 45, 1623-1629.	10.0	77
5	Comparison between the short-term and the long-term toxicity of six triazine herbicides on photobacteria Q67. Water Research, 2009, 43, 1731-1739.	11.3	71
6	Evaluation on the toxicity of ionic liquid mixture with antagonism and synergism to Vibrio qinghaiensis sp.-Q67. Chemosphere, 2011, 82, 1024-1029.	8.2	63
7	QSAR Study of Steroid Benchmark and Dipeptides Based on MEDV-13. Journal of Chemical Information and Computer Sciences, 2001, 41, 321-329.	2.8	62
8	A novel direct equipartition ray design (EquRay) procedure for toxicity interaction between ionic liquid and dichlorvos. Environmental Science and Pollution Research, 2011, 18, 734-742.	5.3	61
9	Modeling non-monotonic doseâ€“response relationships: Model evaluation and hormetic quantities exploration. Ecotoxicology and Environmental Safety, 2013, 89, 130-136.	6.0	57
10	Effect of ionic liquid on the toxicity of pesticide to Vibrio-qinghaiensis sp.-Q67. Journal of Hazardous Materials, 2009, 170, 920-927.	12.4	55
11	A novel model integrated concentration addition with independent action for the prediction of toxicity of multi-component mixture. Toxicology, 2011, 280, 164-172.	4.2	55
12	Support vector regression and least squares support vector regression for hormetic doseâ€“response curves fitting. Chemosphere, 2010, 78, 327-334.	8.2	54
13	The time-dependent hormetic effects of 1-alkyl-3-methylimidazolium chloride and their mixtures on Vibrio qinghaiensis sp. -Q67. Journal of Hazardous Materials, 2013, 258-259, 70-76.	12.4	52
14	Uniform design ray in the assessment of combined toxicities of multi-component mixtures. Science Bulletin, 2016, 61, 52-58.	9.0	50
15	Combined toxicity of pesticide mixtures on green algae and photobacteria. Ecotoxicology and Environmental Safety, 2013, 95, 98-103.	6.0	48
16	Antioxidant defence system is responsible for the toxicological interactions of mixtures: A case study on PFOS and PFOA in Daphnia magna. Science of the Total Environment, 2019, 667, 435-443.	8.0	48
17	Combined MEDV-GA-MLR Method for QSAR of Three Panels of Steroids, Dipeptides, and COX-2 Inhibitors. Journal of Chemical Information and Computer Sciences, 2002, 42, 749-756.	2.8	47
18	Time-dependent hormetic effects of 1-alkyl-3-methylimidazolium bromide on Vibrio qinghaiensis sp.-Q67: Luminescence, redox reactants and antioxidases. Chemosphere, 2013, 91, 462-467.	8.2	47

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19	Evaluation of the combined toxicity of 15 pesticides by uniform design. Pest Management Science, 2010, 66, 879-887.	3.4	43
20	The Use of Pseudo-Equilibrium Constant Affords Improved QSAR Models of Human Plasma Protein Binding. Pharmaceutical Research, 2013, 30, 1790-1798.	3.5	43
21	Hybrid in silico models for drugâ€induced liver injury using chemical descriptors and in vitro cellâ€imaging information. Journal of Applied Toxicology, 2014, 34, 281-288.	2.8	41
22	The time-dependent synergism of the six-component mixtures of substituted phenols, pesticides and ionic liquids to Caenorhabditis elegans. Journal of Hazardous Materials, 2017, 327, 11-17.	12.4	38
23	Predicting synergistic toxicity of heavy metals and ionic liquids on photobacterium Q67. Journal of Hazardous Materials, 2014, 268, 77-83.	12.4	36
24	Application of the combination index integrated with confidence intervals to study the toxicological interactions of antibiotics and pesticides in Vibrio qinghaiensis sp.-Q67. Environmental Toxicology and Pharmacology, 2015, 39, 447-456.	4.0	33
25	Toxicological interaction of multi-component mixtures to Vibrio qinghaiensis sp.-Q67 induced by at least three components. Science of the Total Environment, 2018, 635, 432-442.	8.0	33
26	Remarkable hormesis induced by 1-ethyl-3-methyl imidazolium tetrafluoroborate on Vibrio qinghaiensis sp.-Q67. Chemosphere, 2011, 84, 1440-1445.	8.2	32
27	Prediction of chromatographic relative retention time of polychlorinated biphenyls from the molecular electronegativity distance vector. Journal of Separation Science, 2006, 29, 296-301.	2.5	31
28	Polymyxin B sulfate inducing time-dependent antagonism of the mixtures of pesticide, ionic liquids, and antibiotics to Vibrio qinghaiensis sp.-Q67. RSC Advances, 2017, 7, 6080-6088.	3.6	30
29	Significant contributions of ionic liquids containing tetrafluoroborate and trifluoromethanesulfonate to antagonisms and synergisms in multi-component mixtures. Journal of Hazardous Materials, 2012, 209-210, 158-163.	12.4	29
30	Benefits from hazards: Mixture hormesis induced by [emim]Cl despite its individual inhibitions. Chemosphere, 2014, 112, 420-426.	8.2	27
31	Concentration addition prediction for a multiple-component mixture containing no effect chemicals. Analytical Methods, 2015, 7, 9912-9917.	2.7	25
32	Time-dependent stimulations of 1-alkyl-3-methylimidazolium chloride on redox reactants and antioxidases in Vibrio qinghaiensis sp.-Q67. Journal of Hazardous Materials, 2015, 283, 568-573.	12.4	25
33	Global concentration additivity and prediction of mixture toxicities, taking nitrobenzene derivatives as an example. Ecotoxicology and Environmental Safety, 2017, 144, 475-481.	6.0	25
34	Comparative multiple quantitative structureâ€“retention relationships modeling of gas chromatographic retention time of essential oils using multiple linear regression, principal component regression, and partial least squares techniques. Journal of Chromatography A, 2009, 1216, 5302-5312.	3.7	24
35	Prediction of Placental Barrier Permeability: A Model Based on Partial Least Squares Variable Selection Procedure. Molecules, 2015, 20, 8270-8286.	3.8	23
36	Combined Toxicity of 2,4-Dichlorophenoxyacetic Acid and Its Metabolites 2,4-Dichlorophenol (2,4-DCP) on Two Nontarget Organisms. ACS Omega, 2019, 4, 1669-1677.	3.5	23

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37	Water quality criteria and ecological risk assessment for ammonia in the Shaying River Basin, China. Ecotoxicology and Environmental Safety, 2021, 215, 112141.	6.0	23
38	Chemometric model for predicting retention indices of constituents of essential oils. Chemosphere, 2013, 90, 300-305.	8.2	22
39	Comments on â€œThe synergistic toxicity of the multi chemical mixtures: Implications for risk assessment in the terrestrial environmentâ€• Environment International, 2016, 94, 396-398.	10.0	22
40	JSFit: a method for the fitting and prediction of J- and S-shaped concentrationâ€“response curves. RSC Advances, 2018, 8, 6572-6580.	3.6	20
41	CoMFA and CoMSIA analysis of 2,4-thiazolidinediones derivatives as aldose reductase inhibitors. Journal of Molecular Modeling, 2009, 15, 837-845.	1.8	19
42	Combining the uniform design-based ray procedure with combination index to investigate synergistic lethal toxicities of ternary mixtures on Caenorhabditis elegans. Analytical Methods, 2016, 8, 4466-4472.	2.7	19
43	Complex toxicological interaction between ionic liquids and pesticides to Vibrio qinghaiensis sp.-Q67. RSC Advances, 2016, 6, 21012-21018.	3.6	19
44	Commercial personal care product mixtures exhibit hormetic concentration-responses to Vibrio qinghaiensis sp.-Q67. Ecotoxicology and Environmental Safety, 2018, 162, 304-311.	6.0	19
45	BNNmix: A new approach for predicting the mixture toxicity of multiple components based on the back-propagation neural network. Science of the Total Environment, 2020, 738, 140317.	8.0	19
46	Combined Toxicity of Dichlorvos and Its Metabolites to Vibrio qinghaiensis sp.-Q67 and Caenorhabditis elegans. Acta Chimica Sinica, 2019, 77, 1008.	1.4	19
47	Prediction of bloodâ€“brain partitioning: A model based on molecular electronegativity distance vector descriptors. Journal of Molecular Graphics and Modelling, 2010, 29, 214-220.	2.4	17
48	A new predictive model for the bioconcentration factors of polychlorinated biphenyls (PCBs) based on the molecular electronegativity distance vector (MEDV). Chemosphere, 2008, 70, 1577-1587.	8.2	16
49	A new effect residual ratio (ERR) method for the validation of the concentration addition and independent action models. Environmental Science and Pollution Research, 2010, 17, 1080-1089.	5.3	16
50	Identifying the component responsible for antagonism within ionic liquid mixtures using the up-to-down procedure integrated with a uniform design ray method. Ecotoxicology and Environmental Safety, 2014, 107, 16-21.	6.0	16
51	Using Delaunay triangulation and Voronoi tessellation to predict the toxicities of binary mixtures containing hormetic compound. Scientific Reports, 2017, 7, 43473.	3.3	16
52	Combined lethal toxicities of pesticides with similar structures to Caenorhabditis elegans are not necessarily concentration additives. Environmental Pollution, 2021, 286, 117207.	7.5	16
53	Using an interpolation-based method (IDVequ) to predict the combined toxicities of hormetic ionic liquids. Chemosphere, 2019, 217, 669-679.	8.2	15
54	pH affects the hormesis profiles of personal care product components on luminescence of the bacteria Vibrio qinghaiensis sp. -Q67. Science of the Total Environment, 2020, 713, 136656.	8.0	15

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55	Assessing the combined toxicity of carbamate mixtures as well as organophosphorus mixtures to Caenorhabditis elegans using the locomotion behaviors as endpoints. Science of the Total Environment, 2021, 760, 143378.	8.0	14
56	Blocking the entrance of AMP pocket results in hormetic stimulation of imidazolium-based ionic liquids to firefly luciferase. Chemosphere, 2015, 132, 108-113.	8.2	13
57	Assessing the influence of the genetically modified factor on mixture toxicological interactions in Caenorhabditis elegans: Comparison between wild type and a SOD type. Environmental Pollution, 2018, 242, 872-879.	7.5	13
58	Polyethylene glycol 400 significantly enhances the stimulation of 2-phenoxyethanol on Vibrio qinghaiensis sp.-Q67 bioluminescence. Ecotoxicology and Environmental Safety, 2019, 171, 240-246.	6.0	13
59	QSPR model for bioconcentration factors of nonpolar organic compounds using molecular electronegativity distance vector descriptors. Molecular Diversity, 2010, 14, 67-80.	3.9	12
60	Combined Toxicity of the Mixtures of Phenol and Aniline Derivatives to Vibrio qinghaiensis sp.-Q67. Bulletin of Environmental Contamination and Toxicology, 2011, 87, 473-479.	2.7	12
61	Predicting the mixture effects of three pesticides by integrating molecular simulation with concentration addition modeling. RSC Advances, 2014, 4, 32256-32262.	3.6	12
62	Hormesis of some organic solvents on Vibrio qinghaiensis sp.-Q67 from first binding to the Î² subunit of luciferase. RSC Advances, 2017, 7, 37636-37642.	3.6	12
63	Conlecs: A novel procedure for deriving the concentration limits of chemicals outside the criteria of human drinking water using existing criteria and species sensitivity distribution based on quantitative structure-activity relationship prediction. Journal of Hazardous Materials, 2020, 384, 121380.	12.4	12
64	Two novel indices for quantitatively characterizing the toxicity interaction between ionic liquid and carbamate pesticides. Journal of Hazardous Materials, 2012, 239-240, 102-109.	12.4	11
65	Development of validated quantitative structure-retention relationship models for retention indices of plant essential oils. Journal of Separation Science, 2013, 36, 1553-1560.	2.5	11
66	Two-Stage Prediction of the Effects of Imidazolium and Pyridinium Ionic Liquid Mixtures on Luciferase. Molecules, 2014, 19, 6877-6890.	3.8	10
67	Predicting the Gas Chromatographic Relative Retention Time of Polybrominated Diphenyl Ethers by MEDV-13 Descriptors. Chromatographia, 2007, 65, 319-324.	1.3	9
68	Semi-empirical topological method for prediction of the gas chromatographic relative retention times of Polybrominated Diphenyl Ethers (PBDEs). Journal of Molecular Modeling, 2007, 13, 611-627.	1.8	9
69	MEDVâ€13 for QSAR Studies on the COXâ€2 Inhibition by Indomethacin Amides and Esters. Chinese Journal of Chemistry, 2001, 19, 751-756.	4.9	9
70	Genetically modified Caenorhabditis elegans may lead to inaccurate toxicity evaluation of mixtures. Environmental Sciences Europe, 2020, 32, .	5.5	9
71	Mixture predicted no-effect concentrations derived by independent action model vs concentration addition model based on different species sensitivity distribution models. Ecotoxicology and Environmental Safety, 2021, 227, 112898.	6.0	9
72	A novel method dependent only on the mixture information (MIM) for evaluating the toxicity of mixture. Environmental Pollution, 2011, 159, 1941-1947.	7.5	8

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73	Predictability of the time-dependent toxicities of aminoglycoside antibiotic mixtures to Vibrio qinghaiensis sp.-Q67. RSC Advances, 2015, 5, 107076-107082.	3.6	8
74	Deriving the predicted no effect concentrations of 35 pesticides by the QSAR-SSD method. Chemosphere, 2022, 298, 134303.	8.2	8
75	A novel method based on similarity and triangulation for predicting the toxicities of various binary mixtures. Journal of Theoretical Biology, 2019, 480, 56-64.	1.7	7
76	Hormetic dose-response of halogenated organic pollutants on Microcystis aeruginosa: Joint toxic action and mechanism. Science of the Total Environment, 2022, 829, 154581.	8.0	7
77	QSAR Studies on the COXâ€2 Inhibition by 3,4â€Diarylcycloxazolones Based on MEDV Descriptor. Chinese Journal of Chemistry, 2003, 21, 1510-1516.	4.9	6
78	Molecular electronegativity distance vector model for the Prediction of bioconcentration factors in fish. Journal of Molecular Modeling, 2008, 14, 83-92.	1.8	5
79	Protein Model and Function Analysis in Quorum-Sensing Pathway of Vibrio qinghaiensis sp.-Q67. Biology, 2021, 10, 638.	2.8	5
80	QSAR Studies on Dipeptides Based on a Combinatorial MHDVâ€GAâ€MLR Method. Journal of the Chinese Chemical Society, 2002, 49, 1089-1096.	1.4	3
81	A Novel Quantitative Structureâ€Biodegradability Relationship (QSBR) of Substituted Benzenes Based on MHDV Descriptor. Journal of the Chinese Chemical Society, 2003, 50, 319-324.	1.4	3
82	Study on the Combined Toxicities and Quantitative Characterization of Toxicity Sensitivities of Three Flavor Chemicals and Their Mixtures to Caenorhabditis elegans. ACS Omega, 2021, 6, 35745-35756.	3.5	3
83	Simultaneous Determination of Vitamin B Complex Using Wavelet Neural Network. Chinese Journal of Chemistry, 2001, 19, 836-841.	4.9	2
84	Acute toxicity dataset for QSAR modeling and predicting missing data of six pesticides. Data in Brief, 2020, 29, 105150.	1.0	2
85	The weak magnetic field (WMF) enhances the stimulation of polymyxin B sulfate (POL) on Vibrio qinghaiensis sp.-Q67. Environmental Sciences Europe, 2020, 32, .	5.5	2
86	New methods of top-to-down mixture toxicity prediction: A case study of eliminating of the effects of cosolvent from binary mixtures. Chemosphere, 2022, 289, 133190.	8.2	1