# 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 | 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 |
| 2 | Deriving the predicted no effect concentrations of 35 pesticides by the QSAR-SSD method. Chemosphere, 2022, 298, 134303. | 8.2 | 8 |
| 3 | 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 |
| 4 | 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 |
| 5 | 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 |
| 6 | Protein Model and Function Analysis in Quorum-Sensing Pathway of Vibrio qinghaiensis sp.-Q67. Biology, 2021, 10, 638. | 2.8 | 5 |
| 7 | Combined lethal toxicities of pesticides with similar structures to Caenorhabditis elegans are not necessarily concentration additives. Environmental Pollution, 2021, 286, 117207. | 7.5 | 16 |
| 8 | 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 |
| 9 | 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 |
| 10 | 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 |
| 11 | 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 |
| 12 | Acute toxicity dataset for QSAR modeling and predicting missing data of six pesticides. Data in Brief, 2020, 29, 105150. | 1.0 | 2 |
| 13 | 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 |
| 14 | Genetically modified Caenorhabditis elegans may lead to inaccurate toxicity evaluation of mixtures. Environmental Sciences Europe, 2020, 32, . | 5.5 | 9 |
| 15 | 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 |
| 16 | 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 |
| 17 | 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 |
| 18 | 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 |

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|---|---|---|---|
| 19 | 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 |
| 20 | Using an interpolation-based method (IDVequ) to predict the combined toxicities of hormetic ionic liquids. Chemosphere, 2019, 217, 669-679. | 8.2 | 15 |
| 21 | Combined Toxicity of Dichlorvos and Its Metabolites to Vibrio qinghaiensis sp.-Q67 and Caenorhabditis elegans. Acta Chimica Sinica, 2019, 77, 1008. | 1.4 | 19 |
| 22 | 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 |
| 23 | 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 |
| 24 | 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 |
| 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 | 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 |
| 27 | Using Delaunay triangulation and Voronoi tessellation to predict the toxicities of binary mixtures containing hormetic compound. Scientific Reports, 2017, 7, 43473. | 3.3 | 16 |
| 28 | 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 |
| 29 | 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 |
| 30 | 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 |
| 31 | 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 |
| 32 | 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 |
| 33 | Uniform design ray in the assessment of combined toxicities of multi-component mixtures. Science Bulletin, 2016, 61, 52-58. | 9.0 | 50 |
| 34 | Complex toxicological interaction between ionic liquids and pesticides to Vibrio qinghaiensis sp.-Q67. RSC Advances, 2016, 6, 21012-21018. | 3.6 | 19 |
| 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 | Predictability of the time-dependent toxicities of aminoglycoside antibiotic mixtures to Vibrio qinghaiensis sp.-Q67. RSC Advances, 2015, 5, 107076-107082. | 3.6 | 8 |

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| 37 | 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 |
| 38 | 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 |
| 39 | Concentration addition prediction for a multiple-component mixture containing no effect chemicals. Analytical Methods, 2015, 7, 9912-9917. | 2.7 | 25 |
| 40 | 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 |
| 41 | Two-Stage Prediction of the Effects of Imidazolium and Pyridinium Ionic Liquid Mixtures on Luciferase. Molecules, 2014, 19, 6877-6890. | 3.8 | 10 |
| 42 | 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 |
| 43 | Predicting synergistic toxicity of heavy metals and ionic liquids on photobacterium Q67. Journal of Hazardous Materials, 2014, 268, 77-83. | 12.4 | 36 |
| 44 | Predicting the mixture effects of three pesticides by integrating molecular simulation with concentration addition modeling. RSC Advances, 2014, 4, 32256-32262. | 3.6 | 12 |
| 45 | 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 |
| 46 | Benefits from hazards: Mixture hormesis induced by [emim]Cl despite its individual inhibitions. Chemosphere, 2014, 112, 420-426. | 8.2 | 27 |
| 47 | Chemometric model for predicting retention indices of constituents of essential oils. Chemosphere, 2013, 90, 300-305. | 8.2 | 22 |
| 48 | Combined toxicity of pesticide mixtures on green algae and photobacteria. Ecotoxicology and Environmental Safety, 2013, 95, 98-103. | 6.0 | 48 |
| 49 | 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 |
| 50 | Modeling non-monotonic doseâ€“response relationships: Model evaluation and hormetic quantities exploration. Ecotoxicology and Environmental Safety, 2013, 89, 130-136. | 6.0 | 57 |
| 51 | 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 |
| 52 | 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 |
| 53 | The Use of Pseudo-Equilibrium Constant Affords Improved QSAR Models of Human Plasma Protein Binding. Pharmaceutical Research, 2013, 30, 1790-1798. | 3.5 | 43 |
| 54 | 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 |

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| 55 | 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 |
| 56 | 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 |
| 57 | 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 |
| 58 | 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 |
| 59 | Remarkable hormesis induced by 1-ethyl-3-methyl imidazolium tetrafluoroborate on Vibrio qinghaiensis sp.-Q67. Chemosphere, 2011, 84, 1440-1445. | 8.2 | 32 |
| 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 | 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 |
| 62 | 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 |
| 63 | 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 |
| 64 | 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 |
| 65 | QSPR model for bioconcentration factors of nonpolar organic compounds using molecular electronegativity distance vector descriptors. Molecular Diversity, 2010, 14, 67-80. | 3.9 | 12 |
| 66 | Evaluation of the combined toxicity of 15 pesticides by uniform design. Pest Management Science, 2010, 66, 879-887. | 3.4 | 43 |
| 67 | Support vector regression and least squares support vector regression for hormetic doseâ€“response curves fitting. Chemosphere, 2010, 78, 327-334. | 8.2 | 54 |
| 68 | CoMFA and CoMSIA analysis of 2,4-thiazolidinediones derivatives as aldose reductase inhibitors. Journal of Molecular Modeling, 2009, 15, 837-845. | 1.8 | 19 |
| 69 | 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 |
| 70 | 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 |
| 71 | Combined photobacterium toxicity of herbicide mixtures containing one insecticide. Chemosphere, 2009, 75, 381-388. | 8.2 | 83 |
| 72 | 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 |

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| 73 | Molecular electronegativity distance vector model for the Prediction of bioconcentration factors in fish. Journal of Molecular Modeling, 2008, 14, 83-92. | 1.8 | 5 |
| 74 | 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 |
| 75 | 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 |
| 76 | Predicting the Gas Chromatographic Relative Retention Time of Polybrominated Diphenyl Ethers by MEDV-13 Descriptors. Chromatographia, 2007, 65, 319-324. | 1.3 | 9 |
| 77 | 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 |
| 78 | 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 |
| 79 | 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 |
| 80 | 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 |
| 81 | 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 |
| 82 | 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 |
| 83 | 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 |
| 84 | 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 |
| 85 | 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 |
| 86 | Simultaneous Determination of Vitamin B Complex Using Wavelet Neural Network. Chinese Journal of Chemistry, 2001, 19, 836-841. | 4.9 | 2 |