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Advances in QSPR/QSTR models of ionic liquids for the design of greener solvents of the future

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|-----|--|------|-----------|
| 122 | Influence of chloride, water, and organic solvents on the physical properties of ionic liquids. 2000 , 72, 2275-2287 | | 1942 |
| 121 | A Non-linear quantitative structure-property relationship for the prediction of electrical conductivity of ionic liquids. 2013 , 101, 478-485 | | 17 |
| 120 | QSTR with extended topochemical atom (ETA) indices. 16. Development of predictive classification and regression models for toxicity of ionic liquids towards <i>Daphnia magna</i> . <i>Journal of Hazardous Materials</i> , 2013 , 254-255, 166-178 | 12.8 | 42 |
| 119 | Chemoinformatics profiling of ionic liquids--automatic and chemically interpretable cytotoxicity profiling, virtual screening, and cytotoxicophore identification. 2013 , 136, 548-65 | | 19 |
| 118 | Chemometric modeling of the chromatographic lipophilicity parameter logk ₀ of ionic liquid cations with ETA and QTMS descriptors. <i>Journal of Molecular Liquids</i> , 2014 , 200, 223-228 | 6 | 11 |
| 117 | Quaternary ammonium derivatives of natural terpenoids. Synthesis and properties. 2014 , 63, 1884-1900 | | 13 |
| 116 | Ionic liquid-supported synthesis of piperazine derivatives as potential insecticides. <i>Molecular Diversity</i> , 2014 , 18, 195-202 | 3.1 | 5 |
| 115 | The role of the anion in the toxicity of imidazolium ionic liquids. <i>Journal of Hazardous Materials</i> , 2014 , 274, 181-90 | 12.8 | 122 |
| 114 | Quantitative structure-activity relationship for toxicity of ionic liquids to <i>Daphnia magna</i> : aromaticity vs. lipophilicity. 2014 , 112, 120-7 | | 68 |
| 113 | A brief overview of the potential environmental hazards of ionic liquids. 2014 , 99, 1-12 | | 435 |
| 112 | Ionic liquids and deep eutectic mixtures: sustainable solvents for extraction processes. 2014 , 7, 1784-800 | | 278 |
| 111 | Novel organic-inorganic hybrid soft xerogels with lanthanide complexes through an ionic liquid linkage. 2014 , 38, 2604-2610 | | 15 |
| 110 | Exploring the nature of interactions among thiophene, thiophene sulfone, dibenzothiophene, dibenzothiophene sulfone and a pyridinium-based ionic liquid. 2014 , 16, 10531-8 | | 13 |
| 109 | Predictive in silico Modeling of Ionic Liquids toward Inhibition of the Acetyl Cholinesterase Enzyme of <i>Electrophorus electricus</i> : A Predictive Toxicology Approach. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 1020-1032 | 3.9 | 22 |
| 108 | A review on the transport properties of ionic liquids. <i>Journal of Molecular Liquids</i> , 2014 , 193, 262-266 | 6 | 128 |
| 107 | Predictive modeling studies for the ecotoxicity of ionic liquids towards the green algae <i>Scenedesmus vacuolatus</i> . 2014 , 104, 170-6 | | 51 |
| 106 | Quantitative structure-activity relationship (QSAR) prediction of (eco)toxicity of short aliphatic protic ionic liquids. 2015 , 115, 257-62 | | 51 |

| | | | |
|-----|---|------|-----|
| 105 | Prediction of ETN Polarity Scale of Ionic Liquids Using a QSPR Approach. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 12682-12689 | 3.9 | 20 |
| 104 | Interspecies quantitative structure-toxicity-toxicity (QSTTR) relationship modeling of ionic liquids. Toxicity of ionic liquids to <i>V. fischeri</i> , <i>D. magna</i> and <i>S. vacuolatus</i> . 2015 , 122, 497-520 | | 26 |
| 103 | Assessment of bromide-based ionic liquid toxicity toward aquatic organisms and QSAR analysis. 2015 , 115, 112-8 | | 55 |
| 102 | Green solvents for green technologies. 2015 , 90, 1631-1639 | | 203 |
| 101 | Topological study on the toxicity of ionic liquids on <i>Vibrio fischeri</i> by the quantitative structure-activity relationship method. <i>Journal of Hazardous Materials</i> , 2015 , 286, 410-5 | 12.8 | 40 |
| 100 | Exploring simple, transparent, interpretable and predictive QSAR models for classification and quantitative prediction of rat toxicity of ionic liquids using OECD recommended guidelines. 2015 , 139, 163-73 | | 18 |
| 99 | Cytotoxicity, oxidative stress, and apoptosis in HepG2 cells induced by ionic liquid 1-methyl-3-octylimidazolium bromide. 2015 , 120, 342-8 | | 64 |
| 98 | Computational study of the effects of cations and anions to the cytotoxicity of diverse ionic liquids by supervised machine learning. 2015 , 144, 138-147 | | 12 |
| 97 | Nonlinear QSAR modeling for predicting cytotoxicity of ionic liquids in leukemia rat cell line: an aid to green chemicals designing. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 12699-710 | 5.1 | 16 |
| 96 | Future Avenues. 2015 , 455-462 | | 3 |
| 95 | Background of QSAR and Historical Developments. 2015 , 1-46 | | 15 |
| 94 | Experimental and theoretical studies of two imidazolium-based ionic liquids as inhibitors for mild steel in sulfuric acid solution. 2015 , 95, 168-179 | | 186 |
| 93 | Estimation of thermal conductivity of ionic liquids using quantitative structure-property relationship calculations. <i>Journal of Molecular Liquids</i> , 2015 , 211, 981-985 | 6 | 20 |
| 92 | A rapid approach to isolating nitro-explosives from imidazolium and pyrrolidinium ionic liquid solutions using solid phase extraction (SPE). 2015 , 7, 6911-6915 | | 4 |
| 91 | An unexpected increase of toxicity of amino acid-containing ionic liquids. 2015 , 4, 152-159 | | 60 |
| 90 | Predicting the ecotoxicity of ionic liquids towards <i>Vibrio fischeri</i> using genetic function approximation and least squares support vector machine. <i>Journal of Hazardous Materials</i> , 2015 , 283, 591-8 | 12.8 | 53 |
| 89 | Cytotoxicity towards CCO cells of imidazolium ionic liquids with functionalized side chains: preliminary QSTR modeling using regression and classification based approaches. 2015 , 112, 22-8 | | 33 |
| 88 | Fixation of CO ₂ into cyclic carbonates catalyzed by ionic liquids: a multi-scale approach. 2015 , 17, 108-122 | | 315 |

| | | | |
|----|---|------|-----|
| 87 | Predictive QSAR modelling of algal toxicity of ionic liquids and its interspecies correlation with Daphnia toxicity. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 6634-41 | 5.1 | 34 |
| 86 | Antimicrobial effects of short chained imidazolium-based ionic liquids Influence of anion chaotropicity. 2015 , 111, 96-101 | | 53 |
| 85 | Coupling of OECD standardized test and immunomarkers to select the most environmentally benign ionic liquids option--towards an innovative "safety by design" approach. <i>Journal of Hazardous Materials</i> , 2015 , 283, 202-10 | 12.8 | 40 |
| 84 | The History and Development of Quantitative Structure-Activity Relationships (QSARs). 2016 , 1, 1-44 | | 84 |
| 83 | ILPC: simple chemometric tool supporting the design of ionic liquids. 2016 , 8, 40 | | 8 |
| 82 | Influence of electric potential on the apparent viscosity of an ionic liquid: facts and artifacts. 2016 , 18, 26609-26615 | | 2 |
| 81 | Applications of Ionic Liquids in the Food and Bioproducts Industries. 2016 , 4, 5347-5369 | | 117 |
| 80 | In Silico Calculation of Infinite Dilution Activity Coefficients of Molecular Solutes in Ionic Liquids: Critical Review of Current Methods and New Models Based on Three Machine Learning Algorithms. 2016 , 56, 1420-37 | | 31 |
| 79 | How the structure of ionic liquid affects its toxicity to <i>Vibrio fischeri</i> ?. 2016 , 159, 199-207 | | 35 |
| 78 | Development of predictive QSAR models for toxicity of ionic liquids and their true external and experimental validation tests. 2016 , 5, 1388-1399 | | 24 |
| 77 | Correlating toxicological effects of ionic liquids on <i>Daphnia magna</i> with in silico calculated linear free energy relationship descriptors. 2016 , 152, 207-13 | | 12 |
| 76 | Geometry optimization method versus predictive ability in QSPR modeling for ionic liquids. 2016 , 30, 165-76 | | 22 |
| 75 | Interaction of Ionic Liquids with a Lipid Bilayer: A Biophysical Study of Ionic Liquid Cytotoxicity. 2016 , 120, 2781-9 | | 73 |
| 74 | Rational Design of Ionic Liquids for Lipid Processing. 2016 , 153-203 | | 1 |
| 73 | Computation of chromatographic lipophilicity parameter log _k 0 of ionic liquid cations from π descriptors: Application in modeling of toxicity of ionic liquids to pathogenic bacteria. <i>Journal of Molecular Liquids</i> , 2016 , 216, 754-763 | 6 | 14 |
| 72 | Filling environmental data gaps with QSPR for ionic liquids: Modeling n-octanol/water coefficient. <i>Journal of Hazardous Materials</i> , 2016 , 303, 137-44 | 12.8 | 32 |
| 71 | Descriptive and predictive models for Henry's law constant of CO ₂ in ionic liquids: A QSPR study. 2017 , 120, 15-25 | | 23 |
| 70 | Quantum Chemical Methods for the Prediction of Energetic, Physical, and Spectroscopic Properties of Ionic Liquids. 2017 , 117, 6696-6754 | | 137 |

| | | |
|----|--|------|
| 69 | Screening for High Conductivity/Low Viscosity Ionic Liquids Using Product Descriptors. 2017 , 36, 1600125 | 17 |
| 68 | Acute Toxicity of Imidazole Nitrate Ionic Liquids with Varying Chain Lengths to Earthworms (<i>Eisenia foetida</i>). 2017 , 99, 213-217 | 22 |
| 67 | Phase Behavior and Physical Properties of New Biobased Ionic Liquid Crystals. 2017 , 121, 3177-3189 | 32 |
| 66 | Toxicity mechanisms of ionic liquids. 2017 , 68, 171-179 | 49 |
| 65 | Description of the Thermal Conductivity (κ ,P) of Ionic Liquids Using the StructureProperty Relationship Method. 2017 , 62, 2466-2472 | 15 |
| 64 | Use of protic ionic liquids as adjuvants in PEG-based ATPS for the purification of radish peroxidase. 2017 , 452, 1-8 | 24 |
| 63 | The role of phosphatidylinositol-3-OH-kinase (PI3-kinase) and respiratory burst enzymes in the [omim][BF ₄]-mediated toxic mode of action in mussel hemocytes. 2017 , 68, 144-153 | 4 |
| 62 | Use of the ionic liquid trioctylmethyl ammonium dodecanedioate as a corrosion inhibitor of steel in production water. 2017 , 43, 641-660 | 12 |
| 61 | A theoretical study on aminoacid-based ionic liquids with acid gases and water. <i>Journal of Molecular Liquids</i> , 2017 , 225, 347-356 | 6 9 |
| 60 | Toxicity of Selected Imidazolium-based Ionic Liquids on <i>Caenorhabditis elegans</i> : a Quantitative Structure-Activity Relationship Study. 2017 , 30, 423-428 | 11 |
| 59 | Ecotoxicity of Ionic Liquids Towards <i>Vibrio fischeri</i> : Experimental and QSAR Studies. 2017 , | 1 |
| 58 | Predictive Quantitative Structure Toxicity Relationship Study on Avian Toxicity of Some Diverse Agrochemical Pesticides by Monte Carlo Method. 2017 , 2, 19-34 | 1 |
| 57 | Greener chemicals for the future: QSAR modelling of the PBT index using ETA descriptors. 2018 , 29, 319-337 | 10 |
| 56 | Cluster approach to the prediction of thermodynamic and transport properties of ionic liquids. 2018 , 148, 193832 | 9 |
| 55 | Influence of 1-butyl-1-methylpiperidinium tetrafluoroborate on St37 steel dissolution behavior in HCl environment. 2018 , 205, 538-548 | 19 |
| 54 | Prediction of dielectric constant of ionic liquids. <i>Journal of Molecular Liquids</i> , 2018 , 260, 57-64 | 6 22 |
| 53 | Pyridinium ionic liquid-based liquid-solid extraction of inorganic and organic iodine from <i>Laminaria</i> . 2018 , 239, 1075-1084 | 22 |
| 52 | Understanding the interactions of imidazolium-based ionic liquids with cell membrane models. 2018 , 20, 29764-29777 | 19 |

| | | | |
|----|--|------|----|
| 51 | Best Practices for QSAR Model Reporting: Physical and Chemical Properties, Ecotoxicity, Environmental Fate, Human Health, and Toxicokinetics Endpoints. 2018 , 126, 126001 | | 29 |
| 50 | Multi-Objective Genetic Algorithm (MOGA) As a Feature Selecting Strategy in the Development of Ionic Liquids' Quantitative Toxicity-Toxicity Relationship Models. 2018 , 58, 2467-2476 | | 15 |
| 49 | Chemoinformatic Approach to Assess Toxicity of Ionic Liquids. 2018 , 1800, 559-571 | | 1 |
| 48 | Computational Toxicology. 2018 , | | 5 |
| 47 | [omim][BF]-mediated toxicity in mussel hemocytes includes its interaction with cellular membrane proteins. 2018 , 203, 88-94 | | 8 |
| 46 | Role of solvents in CO2 capture processes: The review of selection and design methods. 2019 , 114, 109299 | | 97 |
| 45 | Extensive Databases and Group Contribution QSPRs of Ionic Liquids Properties. 2. Viscosity. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 17049-17066 | 3.9 | 18 |
| 44 | Progress in the development of sour corrosion inhibitors: Past, present, and future perspectives. 2019 , 79, 1-18 | | 51 |
| 43 | Probing the Environmental Toxicity of Deep Eutectic Solvents and Their Components: An In Silico Modeling Approach. 2019 , 7, 10649-10660 | | 51 |
| 42 | A Snapshot of Transdermal and Topical Drug Delivery Research in Canada. 2019 , 11, | | 12 |
| 41 | Cytotoxic effect of protic ionic liquids in HepG2 and HaCat human cells: and studies. 2019 , 8, 447-458 | | 13 |
| 40 | Ionic Liquids as Potential and Synergistic Permeation Enhancers for Transdermal Drug Delivery. 2019 , 11, | | 56 |
| 39 | Extensive Databases and Group Contribution QSPRs of Ionic Liquids Properties. 1. Density. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 5322-5338 | 3.9 | 18 |
| 38 | Development of Predictive Linear and Non-linear QSTR Models for <i>Aliivibrio Fischeri</i> Toxicity of Deep Eutectic Solvents. 2019 , 4, 50-69 | | 2 |
| 37 | Fundamental Properties of Packing Materials for Liquid Chromatography. 2019 , 6, 2 | | 6 |
| 36 | Biodegradation and toxicity of emerging contaminants: Isolation of an exopolysaccharide-producing <i>Sphingomonas</i> sp. for ionic liquids bioremediation. <i>Journal of Hazardous Materials</i> , 2019 , 365, 88-96 | 12.8 | 14 |
| 35 | Predictive methods and semi-classical Equations of State for pure ionic liquids: A review. 2019 , 130, 47-94 | | 25 |
| 34 | A review of recent advances towards the development of QSAR models for toxicity assessment of ionic liquids. <i>Journal of Hazardous Materials</i> , 2020 , 384, 121429 | 12.8 | 35 |

| | | | |
|----|---|------|----|
| 33 | Aggregation of sodium dodecylbenzene sulfonate: Weak molecular interactions modulated by imidazolium cation of short alkyl chain length. 2020 , 589, 124435 | | 3 |
| 32 | Identification of structural fingerprints for toxicity by using Monte Carlo based QSTR modeling of nitroaromatics. 2020 , 30, 257-265 | | 5 |
| 31 | An Overview on the Toxicological Properties of Ionic Liquids toward Microorganisms. 2020 , 15, e1900073 | | 33 |
| 30 | Industrial Applications of Ionic Liquids. <i>Molecules</i> , 2020 , 25, | 4.8 | 87 |
| 29 | Ionic Liquids Toxicity-Benefits and Threats. 2020 , 21, | | 65 |
| 28 | Extensive Evaluation of Performance of the COSMO-RS Approach in Capturing Liquid-Liquid Equilibria of Binary Mixtures of Ionic Liquids with Molecular Compounds. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 11851-11863 | 3.9 | 12 |
| 27 | Developing New Inexpensive Room-Temperature Ionic Liquids with High Thermal Stability and a Greener Synthetic Profile. 2020 , 5, 12637-12648 | | 10 |
| 26 | Internet of Things Use Cases for the Healthcare Industry. 2020 , | | 6 |
| 25 | Representation of the Structure-A Key Point of Building QSAR/QSPR Models for Ionic Liquids. 2020 , 13, | | 2 |
| 24 | Novel skin permeation enhancers based on amino acid ester ionic liquid: Design and permeation mechanism. 2020 , 576, 119031 | | 14 |
| 23 | A review on machine learning algorithms for the ionic liquid chemical space. 2021 , 12, 6820-6843 | | 19 |
| 22 | Extensive Databases and Group Contribution QSPRs of Ionic Liquid Properties. 3: Surface Tension. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 5705-5720 | 3.9 | 7 |
| 21 | Topical delivery of salicylates. <i>Drug Delivery and Translational Research</i> , 2021 , 1 | 6.2 | 1 |
| 20 | Evaluating the hazardous impact of ionic liquids - Challenges and opportunities. <i>Journal of Hazardous Materials</i> , 2021 , 412, 125215 | 12.8 | 29 |
| 19 | Ecotoxicity interspecies study of ionic liquids based on phosphonium and ammonium cations. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 65374-65384 | 5.1 | 3 |
| 18 | Predicting melting point of ionic liquids using QSPR approach: Literature review and new models. <i>Journal of Molecular Liquids</i> , 2021 , 117631 | 6 | 3 |
| 17 | Density of Deep Eutectic Solvents: The Path Forward Cheminformatics-Driven Reliable Predictions for Mixtures. <i>Molecules</i> , 2021 , 26, | 4.8 | 5 |
| 16 | Chapter 9: The Need for a Green Electronic Lab Notebook. <i>RSC Drug Discovery Series</i> , 2015 , 185-211 | 0.6 | 1 |

| | | | |
|----|--|------|----|
| 15 | The History and Development of Quantitative Structure-Activity Relationships (QSARs). 2017 , 67-117 | | 14 |
| 14 | Impact of IoT on the Healthcare Producers: Epitomizing Pharmaceutical Drug Discovery Process. 2020 , 127-156 | | |
| 13 | Potential Threats of Ionic Liquids to the Environment and Ecosphere. 2020 , 1-17 | | 0 |
| 12 | Chemometric Modeling of Algal and Daphnia Toxicity. 2021 , 243-274 | | |
| 11 | Chemometric Modeling of Daphnia Toxicity. 2021 , 293-317 | | |
| 10 | User-assisted methodology targeted for building structure interpretable QSPR models for boosting CO2 capture with ionic liquids. <i>Journal of Molecular Liquids</i> , 2022 , 350, 118511 | 6 | 1 |
| 9 | Predictive ecotoxicological modeling of ionic liquids using QSAR techniques: A mini review. <i>Process Safety Progress</i> , | 1 | |
| 8 | Molecular imprinting technology and poly (ionic liquid)s: Promising tools with industrial application for the removal of acrylamide and furanic compounds from coffee and other foods.. <i>Critical Reviews in Food Science and Nutrition</i> , 2022 , 1-20 | 11.5 | 0 |
| 7 | Ionic Liquids Assisted Topical Drug Delivery for Permeation Enhancement: Formulation Strategies, Biomedical Applications, and Toxicological Perspective. <i>AAPS PharmSciTech</i> , 2022 , 23, | 3.9 | 1 |
| 6 | Thermodynamics and In-Plane Viscoelasticity of Anionic Phospholipid Membranes Modulated by an Ionic Liquid. | | |
| 5 | Predicting CO2 Absorption in Ionic Liquids with Molecular Descriptors and Explainable Graph Neural Networks. 2022 , 10, 16681-16691 | | 0 |
| 4 | Potential Threats of Ionic Liquids to the Environment and Ecosphere. 2022 , 1065-1081 | | 0 |
| 3 | Free volume in physical absorption of carbon dioxide in ionic liquids: Molecular dynamics supported modeling. 2023 , 313, 123464 | | 0 |
| 2 | Deep eutectic solvents [Ideal solution for clean air or hidden danger?]. 2023 , 314, 123590 | | 0 |
| 1 | Evaluation of corrosion mitigation properties of pyridinium-based ionic liquids on carbon steel in 15% HCl under the hydrodynamic condition: Experimental, surface, and computational approaches. 2023 , 376, 121408 | | 0 |