Alexander Tropsha

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/9001594/publications.pdf

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238 papers 25,164 citations

72 h-index 152 g-index

264 all docs 264 docs citations

times ranked

264

18136 citing authors

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| 1 | Beware of q2!. Journal of Molecular Graphics and Modelling, 2002, 20, 269-276. | 2.4 | 3,216 |
| 2 | The Importance of Being Earnest: Validation is the Absolute Essential for Successful Application and Interpretation of QSPR Models. QSAR and Combinatorial Science, 2003, 22, 69-77. | 1.4 | 1,698 |
| 3 | QSAR Modeling: Where Have You Been? Where Are You Going To?. Journal of Medicinal Chemistry, 2014, 57, 4977-5010. | 6.4 | 1,401 |
| 4 | Best Practices for QSAR Model Development, Validation, and Exploitation. Molecular Informatics, 2010, 29, 476-488. | 2.5 | 1,369 |
| 5 | Deep reinforcement learning for de novo drug design. Science Advances, 2018, 4, eaap7885. | 10.3 | 740 |
| 6 | Trust, But Verify: On the Importance of Chemical Structure Curation in Cheminformatics and QSAR Modeling Research. Journal of Chemical Information and Modeling, 2010, 50, 1189-1204. | 5.4 | 611 |
| 7 | Rational selection of training and test sets for the development of validated QSAR models. Journal of Computer-Aided Molecular Design, 2003, 17, 241-253. | 2.9 | 588 |
| 8 | Chemical Basis of Interactions Between Engineered Nanoparticles and Biological Systems. Chemical Reviews, 2014, 114, 7740-7781. | 47.7 | 478 |
| 9 | Novel Variable Selection Quantitative Structureâ^'Property Relationship Approach Based on thek-Nearest-Neighbor Principle. Journal of Chemical Information and Computer Sciences, 2000, 40, 185-194. | 2.8 | 436 |
| 10 | Universal fragment descriptors for predicting properties of inorganic crystals. Nature Communications, 2017, 8, 15679. | 12.8 | 435 |
| 11 | QSAR without borders. Chemical Society Reviews, 2020, 49, 3525-3564. | 38.1 | 427 |
| 12 | Predictive QSAR Modeling Workflow, Model Applicability Domains, and Virtual Screening. Current Pharmaceutical Design, 2007, 13, 3494-3504. | 1.9 | 369 |
| 13 | Critical Assessment of QSAR Models of Environmental Toxicity against <i>Tetrahymena pyriformis:</i> Focusing on Applicability Domain and Overfitting by Variable Selection. Journal of Chemical Information and Modeling, 2008, 48, 1733-1746. | 5.4 | 350 |
| 14 | Autoimmunity is triggered by cPR-3(105–201), a protein complementary to human autoantigen proteinase-3. Nature Medicine, 2004, 10, 72-79. | 30.7 | 348 |
| 15 | Quantitative Nanostructureâ^'Activity Relationship Modeling. ACS Nano, 2010, 4, 5703-5712. | 14.6 | 342 |
| 16 | Cross-Validated R2-Guided Region Selection for Comparative Molecular Field Analysis: A Simple Method To Achieve Consistent Results. Journal of Medicinal Chemistry, 1995, 38, 1060-1066. | 6.4 | 296 |
| 17 | CERAPP: Collaborative Estrogen Receptor Activity Prediction Project. Environmental Health Perspectives, 2016, 124, 1023-1033. | 6.0 | 264 |
| 18 | Combinatorial QSAR Modeling of Chemical Toxicants Tested against Tetrahymena pyriformis. Journal of Chemical Information and Modeling, 2008, 48, 766-784. | 5.4 | 258 |

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| 19 | Does Rational Selection of Training and Test Sets Improve the Outcome of QSAR Modeling?. Journal of Chemical Information and Modeling, 2012, 52, 2570-2578. | 5.4 | 232 |
| 20 | Trust, but Verify II: A Practical Guide to Chemogenomics Data Curation. Journal of Chemical Information and Modeling, 2016, 56, 1243-1252. | 5.4 | 228 |
| 21 | A Novel Automated Lazy Learning QSAR (ALL-QSAR) Approach:  Method Development, Applications, and Virtual Screening of Chemical Databases Using Validated ALL-QSAR Models. Journal of Chemical Information and Modeling, 2006, 46, 1984-1995. | 5.4 | 227 |
| 22 | Quantitative Structureâ^'Activity Relationship Modeling of Rat Acute Toxicity by Oral Exposure. Chemical Research in Toxicology, 2009, 22, 1913-1921. | 3.3 | 210 |
| 23 | Materials Cartography: Representing and Mining Materials Space Using Structural and Electronic Fingerprints. Chemistry of Materials, 2015, 27, 735-743. | 6.7 | 209 |
| 24 | Applicability Domains for Classification Problems: Benchmarking of Distance to Models for Ames Mutagenicity Set. Journal of Chemical Information and Modeling, 2010, 50, 2094-2111. | 5.4 | 202 |
| 25 | Predictive QSAR modeling based on diversity sampling of experimental datasets for the training and test set selection. Molecular Diversity, 2000, 5, 231-243. | 3.9 | 198 |
| 26 | Predicting Drug-Induced Hepatotoxicity Using QSAR and Toxicogenomics Approaches. Chemical Research in Toxicology, 2011, 24, 1251-1262. | 3.3 | 190 |
| 27 | Phantom PAINS: Problems with the Utility of Alerts for <u>P</u> an- <u>A</u> ssay <u>IN</u> terference Compound <u>S</u> . Journal of Chemical Information and Modeling, 2017, 57, 417-427. | 5.4 | 188 |
| 28 | QSAR Modeling of the Blood–Brain Barrier Permeability for Diverse Organic Compounds. Pharmaceutical Research, 2008, 25, 1902-1914. | 3.5 | 163 |
| 29 | A bibliometric review of drug repurposing. Drug Discovery Today, 2018, 23, 661-672. | 6.4 | 163 |
| 30 | Development and Validation ofk-Nearest-Neighbor QSPR Models of Metabolic Stability of Drug Candidates. Journal of Medicinal Chemistry, 2003, 46, 3013-3020. | 6.4 | 162 |
| 31 | Predâ€hERG: A Novel webâ€Accessible Computational Tool for Predicting Cardiac Toxicity. Molecular Informatics, 2015, 34, 698-701. | 2.5 | 159 |
| 32 | Curation of chemogenomics data. Nature Chemical Biology, 2015, 11, 535-535. | 8.0 | 158 |
| 33 | Clozapine-induced agranulocytosis is associated with rare HLA-DQB1 and HLA-B alleles. Nature Communications, 2014, 5, 4757. | 12.8 | 153 |
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| 35 | Application of Predictive QSAR Models to Database Mining:  Identification and Experimental Validation of Novel Anticonvulsant Compounds. Journal of Medicinal Chemistry, 2004, 47, 2356-2364. | 6.4 | 148 |
| 36 | Three new consensus QSAR models for the prediction of Ames genotoxicity. Mutagenesis, 2004, 19, 365-377. | 2.6 | 141 |

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| 37 | Quantitative Structureâ^'Activity Relationship Analysis of Functionalized Amino Acid Anticonvulsant Agents Using k Nearest Neighbor and Simulated Annealing PLS Methods. Journal of Medicinal Chemistry, 2002, 45, 2811-2823. | 6.4 | 139 |
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| 39 | Community-Wide Assessment of Protein-Interface Modeling Suggests Improvements to Design Methodology. Journal of Molecular Biology, 2011, 414, 289-302. | 4.2 | 131 |
| 40 | Systems chemical biology. Nature Chemical Biology, 2007, 3, 447-450. | 8.0 | 129 |
| 41 | A critical overview of computational approaches employed for COVID-19 drug discovery. Chemical Society Reviews, 2021, 50, 9121-9151. | 38.1 | 128 |
| 42 | QSAR Modeling of Human Serum Protein Binding with Several Modeling Techniques Utilizing Structureâ°Information Representation. Journal of Medicinal Chemistry, 2006, 49, 7169-7181. | 6.4 | 123 |
| 43 | Novel Chirality Descriptors Derived from Molecular Topology. Journal of Chemical Information and Computer Sciences, 2001, 41, 147-158. | 2.8 | 122 |
| 44 | Four-body potentials reveal protein-specific correlations to stability changes caused by hydrophobic core mutations. Journal of Molecular Biology, 2001, 311, 625-638. | 4.2 | 122 |
| 45 | Cheminformatics Analysis of Assertions Mined from Literature That Describe Drug-Induced Liver Injury in Different Species. Chemical Research in Toxicology, 2010, 23, 171-183. | 3.3 | 117 |
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| 47 | QSAR Modeling Using Chirality Descriptors Derived from Molecular Topology. Journal of Chemical Information and Computer Sciences, 2003, 43, 144-154. | 2.8 | 105 |
| 48 | Data Set Modelability by QSAR. Journal of Chemical Information and Modeling, 2014, 54, 1-4. | 5.4 | 105 |
| 49 | Modeling Liver-Related Adverse Effects of Drugs Using <i>k</i> Nearest Neighbor Quantitative Structureâ ⁻ Activity Relationship Method. Chemical Research in Toxicology, 2010, 23, 724-732. | 3.3 | 104 |
| 50 | Use of <i>in Vitro</i> HTS-Derived Concentrationâ€"Response Data as Biological Descriptors Improves the Accuracy of QSAR Models of <i>in Vivo</i> Toxicity. Environmental Health Perspectives, 2011, 119, 364-370. | 6.0 | 103 |
| 51 | Alarms about structural alerts. Green Chemistry, 2016, 18, 4348-4360. | 9.0 | 103 |
| 52 | Development of Quantitative Structureâ^'Binding Affinity Relationship Models Based on Novel Geometrical Chemical Descriptors of the Proteinâ^'Ligand Interfaces. Journal of Medicinal Chemistry, 2006, 49, 2713-2724. | 6.4 | 99 |
| 53 | Novel Inhibitors of Human Histone Deacetylase (HDAC) Identified by QSAR Modeling of Known Inhibitors, Virtual Screening, and Experimental Validation. Journal of Chemical Information and Modeling, 2009, 49, 461-476. | 5.4 | 99 |
| 54 | Quantitative Structureâ^'Activity Relationship Modeling of Dopamine D1 Antagonists Using Comparative Molecular Field Analysis, Genetic Algorithmsâ^'Partial Least-Squares, and K Nearest Neighbor Methods. Journal of Medicinal Chemistry, 1999, 42, 3217-3226. | 6.4 | 98 |

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| 61 | Rational Combinatorial Library Design. 2. Rational Design of Targeted Combinatorial Peptide Libraries Using Chemical Similarity Probe and the Inverse QSAR Approaches. Journal of Chemical Information and Computer Sciences, 1998, 38, 259-268. | 2.8 | 90 |
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| 64 | Application of Validated QSAR Models of D1 Dopaminergic Antagonists for Database Mining. Journal of Medicinal Chemistry, 2005, 48, 7322-7332. | 6.4 | 88 |
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| 71 | Identification of putative estrogen receptor-mediated endocrine disrupting chemicals using QSAR- and structure-based virtual screening approaches. Toxicology and Applied Pharmacology, 2013, 272, 67-76. | 2.8 | 78 |
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| 81 | QSAR Modeling and Prediction of Drug–Drug Interactions. Molecular Pharmaceutics, 2016, 13, 545-556. | 4.6 | 65 |
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| 84 | Novel ZE-Isomerism Descriptors Derived from Molecular Topology and Their Application to QSAR Analysis. Journal of Chemical Information and Computer Sciences, 2002, 42, 769-787. | 2.8 | 63 |
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| 92 | QSAR Modeling of SARSâ€CoV M ^{pro} Inhibitors Identifies Sufugolix, Cenicriviroc, Proglumetacin, and other Drugs as Candidates for Repurposing against SARSâ€CoVâ€2. Molecular Informatics, 2021, 40, e2000113. | 2.5 | 57 |
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| 112 | Chemocentric Informatics Approach to Drug Discovery: Identification and Experimental Validation of Selective Estrogen Receptor Modulators as Ligands of 5-Hydroxytryptamine-6 Receptors and as Potential Cognition Enhancers. Journal of Medicinal Chemistry, 2012, 55, 5704-5719. | 6.4 | 42 |
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