

Jrgen Bajorath

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

545
papers

15,586
citations

51
h-index

103
g-index

662
ext. papers

17,900
ext. citations

5
avg, IF

7.47
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 545 | Docking and scoring in virtual screening for drug discovery: methods and applications. <i>Nature Reviews Drug Discovery</i> , 2004 , 3, 935-49 | 64.1 | 2083 |
| 544 | Integration of virtual and high-throughput screening. <i>Nature Reviews Drug Discovery</i> , 2002 , 1, 882-94 | 64.1 | 615 |
| 543 | Polypharmacology: challenges and opportunities in drug discovery. <i>Journal of Medicinal Chemistry</i> , 2014 , 57, 7874-87 | 8.3 | 571 |
| 542 | Molecular similarity analysis in virtual screening: foundations, limitations and novel approaches. <i>Drug Discovery Today</i> , 2007 , 12, 225-33 | 8.8 | 362 |
| 541 | Molecular similarity in medicinal chemistry. <i>Journal of Medicinal Chemistry</i> , 2014 , 57, 3186-204 | 8.3 | 326 |
| 540 | Current trends in ligand-based virtual screening: molecular representations, data mining methods, new application areas, and performance evaluation. <i>Journal of Chemical Information and Modeling</i> , 2010 , 50, 205-16 | 6.1 | 269 |
| 539 | Exploring activity cliffs in medicinal chemistry. <i>Journal of Medicinal Chemistry</i> , 2012 , 55, 2932-42 | 8.3 | 242 |
| 538 | QSAR without borders. <i>Chemical Society Reviews</i> , 2020 , 49, 3525-3564 | 58.5 | 196 |
| 537 | Quo vadis, virtual screening? A comprehensive survey of prospective applications. <i>Journal of Medicinal Chemistry</i> , 2010 , 53, 8461-7 | 8.3 | 186 |
| 536 | Selected concepts and investigations in compound classification, molecular descriptor analysis, and virtual screening. <i>Journal of Chemical Information and Computer Sciences</i> , 2001 , 41, 233-45 | | 184 |
| 535 | Application of Generative Autoencoder in De Novo Molecular Design. <i>Molecular Informatics</i> , 2018 , 37, 1700123 | 3.8 | 174 |
| 534 | State-of-the-art in ligand-based virtual screening. <i>Drug Discovery Today</i> , 2011 , 16, 372-6 | 8.8 | 160 |
| 533 | MMP-Cliffs: systematic identification of activity cliffs on the basis of matched molecular pairs. <i>Journal of Chemical Information and Modeling</i> , 2012 , 52, 1138-45 | 6.1 | 157 |
| 532 | SAR index: quantifying the nature of structure-activity relationships. <i>Journal of Medicinal Chemistry</i> , 2007 , 50, 5571-8 | 8.3 | 151 |
| 531 | Activity landscape representations for structure-activity relationship analysis. <i>Journal of Medicinal Chemistry</i> , 2010 , 53, 8209-23 | 8.3 | 148 |
| 530 | Navigating structure-activity landscapes. <i>Drug Discovery Today</i> , 2009 , 14, 698-705 | 8.8 | 145 |
| 529 | Recent progress in understanding activity cliffs and their utility in medicinal chemistry. <i>Journal of Medicinal Chemistry</i> , 2014 , 57, 18-28 | 8.3 | 138 |

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| 528 | Recent Advances in Scaffold Hopping. <i>Journal of Medicinal Chemistry</i> , 2017 , 60, 1238-1246 | 8.3 | 131 |
| 527 | Structure-activity relationship anatomy by network-like similarity graphs and local structure-activity relationship indices. <i>Journal of Medicinal Chemistry</i> , 2008 , 51, 6075-84 | 8.3 | 129 |
| 526 | New methodologies for ligand-based virtual screening. <i>Current Pharmaceutical Design</i> , 2005 , 11, 1189-2023 | 9.3 | 118 |
| 525 | Compound promiscuity: what can we learn from current data?. <i>Drug Discovery Today</i> , 2013 , 18, 644-50 | 8.8 | 115 |
| 524 | Combinatorial preferences affect molecular similarity/diversity calculations using binary fingerprints and Tanimoto coefficients. <i>Journal of Chemical Information and Computer Sciences</i> , 2000 , 40, 163-6 | | 108 |
| 523 | Similarity searching. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2011 , 1, 260-282 | 7.9 | 91 |
| 522 | Virtual screening methods that complement HTS. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2004 , 7, 259-69 | 1.3 | 86 |
| 521 | How Frequently Are Pan-Assay Interference Compounds Active? Large-Scale Analysis of Screening Data Reveals Diverse Activity Profiles, Low Global Hit Frequency, and Many Consistently Inactive Compounds. <i>Journal of Medicinal Chemistry</i> , 2017 , 60, 3879-3886 | 8.3 | 79 |
| 520 | Scaffold hopping using two-dimensional fingerprints: true potential, black magic, or a hopeless endeavor? Guidelines for virtual screening. <i>Journal of Medicinal Chemistry</i> , 2010 , 53, 5707-15 | 8.3 | 78 |
| 519 | Computational Exploration of Molecular Scaffolds in Medicinal Chemistry. <i>Journal of Medicinal Chemistry</i> , 2016 , 59, 4062-76 | 8.3 | 75 |
| 518 | Charting Biologically Relevant Spirocyclic Compound Space. <i>Chemistry - A European Journal</i> , 2017 , 23, 703-710 | 4.8 | 75 |
| 517 | Computational analysis of ligand relationships within target families. <i>Current Opinion in Chemical Biology</i> , 2008 , 12, 352-8 | 9.7 | 75 |
| 516 | Lessons learned from molecular scaffold analysis. <i>Journal of Chemical Information and Modeling</i> , 2011 , 51, 1742-53 | 6.1 | 73 |
| 515 | Rationalizing three-dimensional activity landscapes and the influence of molecular representations on landscape topology and the formation of activity cliffs. <i>Journal of Chemical Information and Modeling</i> , 2010 , 50, 1021-33 | 6.1 | 72 |
| 514 | Development of potent and selective inhibitors of ecto-5'-nucleotidase based on an anthraquinone scaffold. <i>Journal of Medicinal Chemistry</i> , 2010 , 53, 2076-86 | 8.3 | 72 |
| 513 | SARANEA: a freely available program to mine structure-activity and structure-selectivity relationship information in compound data sets. <i>Journal of Chemical Information and Modeling</i> , 2010 , 50, 68-78 | 6.1 | 70 |
| 512 | Local structural changes, global data views: graphical substructure-activity relationship trailing. <i>Journal of Medicinal Chemistry</i> , 2011 , 54, 2944-51 | 8.3 | 70 |
| 511 | Design and evaluation of a molecular fingerprint involving the transformation of property descriptor values into a binary classification scheme. <i>Journal of Chemical Information and Computer Sciences</i> , 2003 , 43, 1151-7 | | 69 |

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|-----|---|-----|----|
| 510 | The future of virtual compound screening. <i>Chemical Biology and Drug Design</i> , 2013 , 81, 33-40 | 2.9 | 63 |
| 509 | Identification of the first low-molecular-weight inhibitors of matriptase-2. <i>Journal of Medicinal Chemistry</i> , 2010 , 53, 5523-35 | 8.3 | 63 |
| 508 | Support vector machines for drug discovery. <i>Expert Opinion on Drug Discovery</i> , 2014 , 9, 93-104 | 6.2 | 61 |
| 507 | Interpretation of machine learning models using shapley values: application to compound potency and multi-target activity predictions. <i>Journal of Computer-Aided Molecular Design</i> , 2020 , 34, 1013-1026 | 4.2 | 60 |
| 506 | Data structures and computational tools for the extraction of SAR information from large compound sets. <i>Drug Discovery Today</i> , 2010 , 15, 630-9 | 8.8 | 60 |
| 505 | Profile scaling increases the similarity search performance of molecular fingerprints containing numerical descriptors and structural keys. <i>Journal of Chemical Information and Computer Sciences</i> , 2003 , 43, 1218-25 | | 60 |
| 504 | Database searching for compounds with similar biological activity using short binary bit string representations of molecules. <i>Journal of Chemical Information and Computer Sciences</i> , 1999 , 39, 881-6 | | 60 |
| 503 | Large-scale similarity search profiling of ChEMBL compound data sets. <i>Journal of Chemical Information and Modeling</i> , 2011 , 51, 1831-9 | 6.1 | 59 |
| 502 | Support-vector-machine-based ranking significantly improves the effectiveness of similarity searching using 2D fingerprints and multiple reference compounds. <i>Journal of Chemical Information and Modeling</i> , 2008 , 48, 742-6 | 6.1 | 57 |
| 501 | Advancing the activity cliff concept. <i>F1000Research</i> , 2013 , 2, 199 | 3.6 | 55 |
| 500 | Chemical substitutions that introduce activity cliffs across different compound classes and biological targets. <i>Journal of Chemical Information and Modeling</i> , 2010 , 50, 1248-56 | 6.1 | 55 |
| 499 | Similarity-potency trees: a method to search for SAR information in compound data sets and derive SAR rules. <i>Journal of Chemical Information and Modeling</i> , 2010 , 50, 1395-409 | 6.1 | 55 |
| 498 | Ligand prediction for orphan targets using support vector machines and various target-ligand kernels is dominated by nearest neighbor effects. <i>Journal of Chemical Information and Modeling</i> , 2009 , 49, 2155-67 | 6.1 | 55 |
| 497 | Molecular similarity analysis uncovers heterogeneous structure-activity relationships and variable activity landscapes. <i>Chemistry and Biology</i> , 2007 , 14, 489-97 | | 54 |
| 496 | Fingerprint scaling increases the probability of identifying molecules with similar activity in virtual screening calculations. <i>Journal of Chemical Information and Computer Sciences</i> , 2001 , 41, 746-53 | | 53 |
| 495 | Integrating structure- and ligand-based virtual screening: comparison of individual, parallel, and fused molecular docking and similarity search calculations on multiple targets. <i>ChemMedChem</i> , 2008 , 3, 1566-71 | 3.7 | 52 |
| 494 | Searching for target-selective compounds using different combinations of multiclass support vector machine ranking methods, kernel functions, and fingerprint descriptors. <i>Journal of Chemical Information and Modeling</i> , 2009 , 49, 582-92 | 6.1 | 51 |
| 493 | Current compound coverage of the kinome. <i>Journal of Medicinal Chemistry</i> , 2015 , 58, 30-40 | 8.3 | 50 |

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|-----|--|-----|----|
| 492 | Polypharmacology directed compound data mining: identification of promiscuous chemotypes with different activity profiles and comparison to approved drugs. <i>Journal of Chemical Information and Modeling</i> , 2010 , 50, 2112-8 | 6.1 | 50 |
| 491 | Ligand prediction from protein sequence and small molecule information using support vector machines and fingerprint descriptors. <i>Journal of Chemical Information and Modeling</i> , 2009 , 49, 767-79 | 6.1 | 50 |
| 490 | Matched molecular pairs derived by retrosynthetic fragmentation. <i>MedChemComm</i> , 2014 , 5, 64-67 | 5 | 49 |
| 489 | Evaluation of descriptors and mini-fingerprints for the identification of molecules with similar activity. <i>Journal of Chemical Information and Computer Sciences</i> , 2000 , 40, 1227-34 | | 48 |
| 488 | Interpretation of Compound Activity Predictions from Complex Machine Learning Models Using Local Approximations and Shapley Values. <i>Journal of Medicinal Chemistry</i> , 2020 , 63, 8761-8777 | 8.3 | 48 |
| 487 | Synthesis, biological evaluation and molecular docking of N-phenyl thiosemicarbazones as urease inhibitors. <i>Bioorganic Chemistry</i> , 2015 , 61, 51-7 | 5.1 | 47 |
| 486 | From structure-activity to structure-selectivity relationships: quantitative assessment, selectivity cliffs, and key compounds. <i>ChemMedChem</i> , 2009 , 4, 1864-73 | 3.7 | 47 |
| 485 | Differential Shannon Entropy as a sensitive measure of differences in database variability of molecular descriptors. <i>Journal of Chemical Information and Computer Sciences</i> , 2001 , 41, 1060-6 | | 47 |
| 484 | Active compounds from a diverse library of triazolothiadiazole and triazolothiadiazine scaffolds: synthesis, crystal structure determination, cytotoxicity, cholinesterase inhibitory activity, and binding mode analysis. <i>Bioorganic and Medicinal Chemistry</i> , 2014 , 22, 6163-73 | 3.4 | 46 |
| 483 | SAR matrices: automated extraction of information-rich SAR tables from large compound data sets. <i>Journal of Chemical Information and Modeling</i> , 2012 , 52, 1769-76 | 6.1 | 45 |
| 482 | Extending the activity cliff concept: structural categorization of activity cliffs and systematic identification of different types of cliffs in the ChEMBL database. <i>Journal of Chemical Information and Modeling</i> , 2012 , 52, 1806-11 | 6.1 | 44 |
| 481 | Design of multitarget activity landscapes that capture hierarchical activity cliff distributions. <i>Journal of Chemical Information and Modeling</i> , 2011 , 51, 258-66 | 6.1 | 44 |
| 480 | Chemical space networks: a powerful new paradigm for the description of chemical space. <i>Journal of Computer-Aided Molecular Design</i> , 2014 , 28, 795-802 | 4.2 | 43 |
| 479 | BindingDB and ChEMBL: online compound databases for drug discovery. <i>Expert Opinion on Drug Discovery</i> , 2011 , 6, 683-7 | 6.2 | 43 |
| 478 | Molecular scaffolds with high propensity to form multi-target activity cliffs. <i>Journal of Chemical Information and Modeling</i> , 2010 , 50, 500-10 | 6.1 | 42 |
| 477 | Systematic computational analysis of structure-activity relationships: concepts, challenges and recent advances. <i>Future Medicinal Chemistry</i> , 2009 , 1, 451-66 | 4.1 | 42 |
| 476 | Modeling of activity landscapes for drug discovery. <i>Expert Opinion on Drug Discovery</i> , 2012 , 7, 463-73 | 6.2 | 42 |
| 475 | Computational Method for the Systematic Identification of Analog Series and Key Compounds Representing Series and Their Biological Activity Profiles. <i>Journal of Medicinal Chemistry</i> , 2016 , 59, 7667-78 | 8.3 | 42 |

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|-----|--|-----|----|
| 474 | Methods for SAR visualization. <i>RSC Advances</i> , 2012 , 2, 369-378 | 3.7 | 41 |
| 473 | Matched molecular pair analysis of small molecule microarray data identifies promiscuity cliffs and reveals molecular origins of extreme compound promiscuity. <i>Journal of Medicinal Chemistry</i> , 2012 , 55, 10220-8 | 8.3 | 41 |
| 472 | Systematic analysis of public domain compound potency data identifies selective molecular scaffolds across druggable target families. <i>Journal of Medicinal Chemistry</i> , 2010 , 53, 752-8 | 8.3 | 41 |
| 471 | Emerging chemical patterns: a new methodology for molecular classification and compound selection. <i>Journal of Chemical Information and Modeling</i> , 2006 , 46, 2502-14 | 6.1 | 41 |
| 470 | From activity cliffs to activity ridges: informative data structures for SAR analysis. <i>Journal of Chemical Information and Modeling</i> , 2011 , 51, 1848-56 | 6.1 | 40 |
| 469 | Entering the 'big data' era in medicinal chemistry: molecular promiscuity analysis revisited. <i>Future Science OA</i> , 2017 , 3, FSO179 | 2.7 | 39 |
| 468 | Exploring compound promiscuity patterns and multi-target activity spaces. <i>Computational and Structural Biotechnology Journal</i> , 2014 , 9, e201401003 | 6.8 | 39 |
| 467 | Prediction of activity cliffs using support vector machines. <i>Journal of Chemical Information and Modeling</i> , 2012 , 52, 2354-65 | 6.1 | 39 |
| 466 | Virtual compound screening in drug discovery. <i>Future Medicinal Chemistry</i> , 2012 , 4, 593-602 | 4.1 | 39 |
| 465 | Comparison of 2D fingerprint methods for multiple-template similarity searching on compound activity classes of increasing structural diversity. <i>ChemMedChem</i> , 2007 , 2, 208-17 | 3.7 | 39 |
| 464 | Coumarin-thiazole and -oxadiazole derivatives: Synthesis, bioactivity and docking studies for aldose/aldehyde reductase inhibitors. <i>Bioorganic Chemistry</i> , 2016 , 68, 177-86 | 5.1 | 39 |
| 463 | A coumarin-labeled vinyl sulfone as tripeptidomimetic activity-based probe for cysteine cathepsins. <i>ChemBioChem</i> , 2014 , 15, 955-9 | 3.8 | 37 |
| 462 | Virtual screening identifies novel sulfonamide inhibitors of ecto-5'-nucleotidase. <i>Journal of Medicinal Chemistry</i> , 2012 , 55, 6576-81 | 8.3 | 37 |
| 461 | Determining the Degree of Promiscuity of Extensively Assayed Compounds. <i>PLoS ONE</i> , 2016 , 11, e0153873 | 3.7 | 37 |
| 460 | Support Vector Machine Classification and Regression Prioritize Different Structural Features for Binary Compound Activity and Potency Value Prediction. <i>ACS Omega</i> , 2017 , 2, 6371-6379 | 3.9 | 36 |
| 459 | Cheminformatics: a view of the field and current trends in method development. <i>Bioorganic and Medicinal Chemistry</i> , 2012 , 20, 5317-23 | 3.4 | 36 |
| 458 | Large-scale exploration of bioisosteric replacements on the basis of matched molecular pairs. <i>Future Medicinal Chemistry</i> , 2011 , 3, 425-36 | 4.1 | 36 |
| 457 | Systematic Extraction of Analogue Series from Large Compound Collections Using a New Computational Compound-Core Relationship Method. <i>ACS Omega</i> , 2019 , 4, 1027-1032 | 3.9 | 36 |

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| 456 | Analysis of structure-based virtual screening studies and characterization of identified active compounds. <i>Future Medicinal Chemistry</i> , 2012 , 4, 603-13 | 4.1 | 35 |
| 455 | Structural interpretation of activity cliffs revealed by systematic analysis of structure-activity relationships in analog series. <i>Journal of Chemical Information and Modeling</i> , 2009 , 49, 2179-89 | 6.1 | 35 |
| 454 | Characterization of P2X4 receptor agonists and antagonists by calcium influx and radioligand binding studies. <i>Biochemical Pharmacology</i> , 2017 , 125, 41-54 | 6 | 34 |
| 453 | Improving the search performance of extended connectivity fingerprints through activity-oriented feature filtering and application of a bit-density-dependent similarity function. <i>ChemMedChem</i> , 2009 , 4, 540-8 | 3.7 | 34 |
| 452 | Molecular similarity analysis and virtual screening by mapping of consensus positions in binary-transformed chemical descriptor spaces with variable dimensionality. <i>Journal of Chemical Information and Computer Sciences</i> , 2004 , 44, 21-9 | | 34 |
| 451 | Recursive median partitioning for virtual screening of large databases. <i>Journal of Chemical Information and Computer Sciences</i> , 2003 , 43, 182-8 | | 34 |
| 450 | Highly Promiscuous Small Molecules from Biological Screening Assays Include Many Pan-Assay Interference Compounds but Also Candidates for Polypharmacology. <i>Journal of Medicinal Chemistry</i> , 2016 , 59, 10285-10290 | 8.3 | 33 |
| 449 | What is the likelihood of an active compound to be promiscuous? Systematic assessment of compound promiscuity on the basis of PubChem confirmatory bioassay data. <i>AAPS Journal</i> , 2013 , 15, 808-15 | 3.7 | 33 |
| 448 | Computer-aided drug discovery. <i>F1000Research</i> , 2015 , 4, | 3.6 | 33 |
| 447 | Growth of ligand-target interaction data in ChEMBL is associated with increasing and activity measurement-dependent compound promiscuity. <i>Journal of Chemical Information and Modeling</i> , 2012 , 52, 2550-8 | 6.1 | 33 |
| 446 | Similarity searching using fingerprints of molecular fragments involved in protein-ligand interactions. <i>Journal of Chemical Information and Modeling</i> , 2008 , 48, 2308-12 | 6.1 | 33 |
| 445 | Design and evaluation of a novel class-directed 2D fingerprint to search for structurally diverse active compounds. <i>Journal of Chemical Information and Modeling</i> , 2006 , 46, 2515-26 | 6.1 | 33 |
| 444 | Accurate partitioning of compounds belonging to diverse activity classes. <i>Journal of Chemical Information and Computer Sciences</i> , 2002 , 42, 757-64 | | 33 |
| 443 | High-resolution view of compound promiscuity. <i>F1000Research</i> , 2013 , 2, 144 | 3.6 | 33 |
| 442 | Composition and topology of activity cliff clusters formed by bioactive compounds. <i>Journal of Chemical Information and Modeling</i> , 2014 , 54, 451-61 | 6.1 | 32 |
| 441 | Comparison of confirmed inactive and randomly selected compounds as negative training examples in support vector machine-based virtual screening. <i>Journal of Chemical Information and Modeling</i> , 2013 , 53, 1595-601 | 6.1 | 32 |
| 440 | Design of chemical space networks using a Tanimoto similarity variant based upon maximum common substructures. <i>Journal of Computer-Aided Molecular Design</i> , 2015 , 29, 937-50 | 4.2 | 31 |
| 439 | Can Cysteine Protease Cross-Class Inhibitors Achieve Selectivity?. <i>Journal of Medicinal Chemistry</i> , 2019 , 62, 10497-10525 | 8.3 | 31 |

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| 438 | Representation and identification of activity cliffs. <i>Expert Opinion on Drug Discovery</i> , 2017 , 12, 879-883 | 6.2 | 31 |
| 437 | Influence of search parameters and criteria on compound selection, promiscuity, and pan assay interference characteristics. <i>Journal of Chemical Information and Modeling</i> , 2014 , 54, 3056-66 | 6.1 | 31 |
| 436 | Targeting multifunctional proteins by virtual screening: structurally diverse cytohesin inhibitors with differentiated biological functions. <i>ACS Chemical Biology</i> , 2010 , 5, 839-49 | 4.9 | 31 |
| 435 | Evolving Concept of Activity Cliffs. <i>ACS Omega</i> , 2019 , 4, 14360-14368 | 3.9 | 30 |
| 434 | Formal concept analysis for the identification of molecular fragment combinations specific for active and highly potent compounds. <i>Journal of Medicinal Chemistry</i> , 2008 , 51, 5342-8 | 8.3 | 30 |
| 433 | Anatomy of fingerprint search calculations on structurally diverse sets of active compounds. <i>Journal of Chemical Information and Modeling</i> , 2005 , 45, 1812-9 | 6.1 | 30 |
| 432 | Assessment of molecular similarity from the analysis of randomly generated structural fragment populations. <i>Journal of Chemical Information and Modeling</i> , 2006 , 46, 1937-44 | 6.1 | 30 |
| 431 | Median Partitioning: a novel method for the selection of representative subsets from large compound pools. <i>Journal of Chemical Information and Computer Sciences</i> , 2002 , 42, 885-93 | | 30 |
| 430 | How promiscuous are pharmaceutically relevant compounds? A data-driven assessment. <i>AAPS Journal</i> , 2013 , 15, 104-11 | 3.7 | 29 |
| 429 | Molecular fingerprint recombination: generating hybrid fingerprints for similarity searching from different fingerprint types. <i>ChemMedChem</i> , 2009 , 4, 1859-63 | 3.7 | 29 |
| 428 | Ligand-target interaction-based weighting of substructures for virtual screening. <i>Journal of Chemical Information and Modeling</i> , 2008 , 48, 1955-64 | 6.1 | 29 |
| 427 | Methods for computer-aided chemical biology. Part 3: analysis of structure-selectivity relationships through single- or dual-step selectivity searching and Bayesian classification. <i>Chemical Biology and Drug Design</i> , 2008 , 71, 518-28 | 2.9 | 29 |
| 426 | Identification of structurally diverse growth hormone secretagogue agonists by virtual screening and structure-activity relationship analysis of 2-formylaminoacetamide derivatives. <i>Journal of Medicinal Chemistry</i> , 2004 , 47, 4286-90 | 8.3 | 29 |
| 425 | Cathepsin B: Active site mapping with peptidic substrates and inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2019 , 27, 1-15 | 3.4 | 29 |
| 424 | Three-Dimensional Similarity in Molecular Docking: Prioritizing Ligand Poses on the Basis of Experimental Binding Modes. <i>Journal of Chemical Information and Modeling</i> , 2016 , 56, 580-7 | 6.1 | 28 |
| 423 | A homogeneous fluorescence resonance energy transfer system for monitoring the activation of a protein switch in real time. <i>Journal of the American Chemical Society</i> , 2011 , 133, 8372-9 | 16.4 | 28 |
| 422 | Exploration of structure-activity relationship determinants in analogue series. <i>Journal of Medicinal Chemistry</i> , 2009 , 52, 3212-24 | 8.3 | 28 |
| 421 | Balancing the influence of molecular complexity on fingerprint similarity searching. <i>Journal of Chemical Information and Modeling</i> , 2008 , 48, 75-84 | 6.1 | 28 |

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| 4 ²⁰ | Methods for computer-aided chemical biology. Part 2: Evaluation of compound selectivity using 2D molecular fingerprints. <i>Chemical Biology and Drug Design</i> , 2007 , 70, 195-205 | 2.9 | 28 |
| 4 ¹⁹ | High-resolution view of compound promiscuity. <i>F1000Research</i> , 2013 , 2, 144 | 3.6 | 28 |
| 4 ¹⁸ | Novel structural hybrids of pyrazolobenzothiazines with benzimidazoles as cholinesterase inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2014 , 78, 106-117 | 6.8 | 27 |
| 4 ¹⁷ | Identification of sulfonic acids as efficient ecto-5'-nucleotidase inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2013 , 70, 685-91 | 6.8 | 27 |
| 4 ¹⁶ | Comprehensive analysis of single- and multi-target activity cliffs formed by currently available bioactive compounds. <i>Chemical Biology and Drug Design</i> , 2011 , 78, 224-8 | 2.9 | 27 |
| 4 ¹⁵ | Inhibition of human leukocyte elastase by brunsvicamides a-C: cyanobacterial cyclic peptides. <i>ChemMedChem</i> , 2009 , 4, 1425-9 | 3.7 | 27 |
| 4 ¹⁴ | Development of a fingerprint reduction approach for Bayesian similarity searching based on Kullback-Leibler divergence analysis. <i>Journal of Chemical Information and Modeling</i> , 2009 , 49, 1347-58 | 6.1 | 27 |
| 4 ¹³ | Chemical database mining through entropy-based molecular similarity assessment of randomly generated structural fragment populations. <i>Journal of Chemical Information and Modeling</i> , 2007 , 47, 59-68 | 6.1 | 27 |
| 4 ¹² | Activity-relevant similarity values for fingerprints and implications for similarity searching. <i>F1000Research</i> , 2016 , 5, | 3.6 | 27 |
| 4 ¹¹ | Design and characterization of chemical space networks for different compound data sets. <i>Journal of Computer-Aided Molecular Design</i> , 2015 , 29, 113-25 | 4.2 | 26 |
| 4 ¹⁰ | Systematic identification and classification of three-dimensional activity cliffs. <i>Journal of Chemical Information and Modeling</i> , 2012 , 52, 1490-8 | 6.1 | 26 |
| 4 ⁰⁹ | Combining cluster analysis, feature selection and multiple support vector machine models for the identification of human ether-a-go-go related gene channel blocking compounds. <i>Chemical Biology and Drug Design</i> , 2009 , 73, 17-25 | 2.9 | 26 |
| 4 ⁰⁸ | Methods for computer-aided chemical biology. Part 1: Design of a benchmark system for the evaluation of compound selectivity. <i>Chemical Biology and Drug Design</i> , 2007 , 70, 182-94 | 2.9 | 26 |
| 4 ⁰⁷ | Mapping algorithms for molecular similarity analysis and ligand-based virtual screening: design of DynaMAD and comparison with MAD and DMC. <i>Journal of Chemical Information and Modeling</i> , 2006 , 46, 1623-34 | 6.1 | 26 |
| 4 ⁰⁶ | Similarity search profiling reveals effects of fingerprint scaling in virtual screening. <i>Journal of Chemical Information and Computer Sciences</i> , 2004 , 44, 2032-9 | | 26 |
| 4 ⁰⁵ | Activity-relevant similarity values for fingerprints and implications for similarity searching. <i>F1000Research</i> , 2016 , 5, 591 | 3.6 | 26 |
| 4 ⁰⁴ | Monitoring the Progression of Structure-Activity Relationship Information during Lead Optimization. <i>Journal of Medicinal Chemistry</i> , 2016 , 59, 4235-44 | 8.3 | 25 |
| 4 ⁰³ | Computational polypharmacology analysis of the heat shock protein 90 interactome. <i>Journal of Chemical Information and Modeling</i> , 2015 , 55, 676-86 | 6.1 | 25 |

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|-----|---|-----|----|
| 402 | Elucidation of structure-activity relationship pathways in biological screening data. <i>Journal of Medicinal Chemistry</i> , 2009 , 52, 1075-80 | 8.3 | 25 |
| 401 | Analog series-based scaffolds: computational design and exploration of a new type of molecular scaffolds for medicinal chemistry. <i>Future Science OA</i> , 2016 , 2, FSO149 | 2.7 | 24 |
| 400 | Frequency of occurrence and potency range distribution of activity cliffs in bioactive compounds. <i>Journal of Chemical Information and Modeling</i> , 2012 , 52, 2348-53 | 6.1 | 24 |
| 399 | Computational analysis of multi-target structure-activity relationships to derive preference orders for chemical modifications toward target selectivity. <i>ChemMedChem</i> , 2010 , 5, 847-58 | 3.7 | 24 |
| 398 | Bit silencing in fingerprints enables the derivation of compound class-directed similarity metrics. <i>Journal of Chemical Information and Modeling</i> , 2008 , 48, 1754-9 | 6.1 | 24 |
| 397 | Apparent asymmetry in fingerprint similarity searching is a direct consequence of differences in bit densities and molecular size. <i>ChemMedChem</i> , 2007 , 2, 1037-42 | 3.7 | 24 |
| 396 | A distance function for retrieval of active molecules from complex chemical space representations. <i>Journal of Chemical Information and Modeling</i> , 2006 , 46, 1094-7 | 6.1 | 24 |
| 395 | Partitioning methods for the identification of active molecules. <i>Current Medicinal Chemistry</i> , 2003 , 10, 707-15 | 4.3 | 24 |
| 394 | POT-DMC: A virtual screening method for the identification of potent hits. <i>Journal of Medicinal Chemistry</i> , 2004 , 47, 5608-11 | 8.3 | 24 |
| 393 | Prediction of Compound Profiling Matrices Using Machine Learning. <i>ACS Omega</i> , 2018 , 3, 4713-4723 | 3.9 | 23 |
| 392 | Lessons learned from the design of chemical space networks and opportunities for new applications. <i>Journal of Computer-Aided Molecular Design</i> , 2016 , 30, 191-208 | 4.2 | 23 |
| 391 | Assessing the target differentiation potential of imidazole-based protein kinase inhibitors. <i>Journal of Medicinal Chemistry</i> , 2012 , 55, 11067-71 | 8.3 | 23 |
| 390 | Exploration of 3D activity cliffs on the basis of compound binding modes and comparison of 2D and 3D cliffs. <i>Journal of Chemical Information and Modeling</i> , 2012 , 52, 670-7 | 6.1 | 23 |
| 389 | Development of a method to consistently quantify the structural distance between scaffolds and to assess scaffold hopping potential. <i>Journal of Chemical Information and Modeling</i> , 2011 , 51, 2507-14 | 6.1 | 23 |
| 388 | Introduction of an information-theoretic method to predict recovery rates of active compounds for Bayesian in silico screening: theory and screening trials. <i>Journal of Chemical Information and Modeling</i> , 2007 , 47, 337-41 | 6.1 | 23 |
| 387 | Mini-fingerprints for virtual screening: design principles and generation of novel prototypes based on information theory. <i>SAR and QSAR in Environmental Research</i> , 2003 , 14, 27-40 | 3.5 | 23 |
| 386 | Evaluating the high-throughput screening computations. <i>Journal of Biomolecular Screening</i> , 2005 , 10, 649-52 | | 23 |
| 385 | Advancing the activity cliff concept, part II. <i>F1000Research</i> , 2014 , 3, 75 | 3.6 | 23 |

| | | | |
|-----|--|-----|----|
| 384 | Multitask Machine Learning for Classifying Highly and Weakly Potent Kinase Inhibitors. <i>ACS Omega</i> , 2019 , 4, 4367-4375 | 3.9 | 23 |
| 383 | Activity Landscapes, Information Theory, and Structure - Activity Relationships. <i>Molecular Informatics</i> , 2013 , 32, 421-30 | 3.8 | 22 |
| 382 | Visualization and Interpretation of Support Vector Machine Activity Predictions. <i>Journal of Chemical Information and Modeling</i> , 2015 , 55, 1136-47 | 6.1 | 22 |
| 381 | Do medicinal chemists learn from activity cliffs? A systematic evaluation of cliff progression in evolving compound data sets. <i>Journal of Medicinal Chemistry</i> , 2013 , 56, 3339-45 | 8.3 | 22 |
| 380 | Systematic identification of scaffolds representing compounds active against individual targets and single or multiple target families. <i>Journal of Chemical Information and Modeling</i> , 2013 , 53, 312-26 | 6.1 | 22 |
| 379 | Scaffold distributions in bioactive molecules, clinical trials compounds, and drugs. <i>ChemMedChem</i> , 2010 , 5, 187-90 | 3.7 | 22 |
| 378 | Bayesian screening for active compounds in high-dimensional chemical spaces combining property descriptors and molecular fingerprints. <i>Chemical Biology and Drug Design</i> , 2008 , 71, 8-14 | 2.9 | 22 |
| 377 | Molecular Similarity Concepts for Informatics Applications. <i>Methods in Molecular Biology</i> , 2017 , 1526, 231-245 | 1.4 | 21 |
| 376 | Comprehensive analysis of three-dimensional activity cliffs formed by kinase inhibitors with different binding modes and cliff mapping of structural analogues. <i>Journal of Medicinal Chemistry</i> , 2015 , 58, 252-64 | 8.3 | 21 |
| 375 | Substrate specificity of human matriptase-2. <i>Biochimie</i> , 2014 , 97, 121-7 | 4.6 | 21 |
| 374 | Advances in Computational Medicinal Chemistry: Matched Molecular Pair Analysis. <i>Drug Development Research</i> , 2012 , 73, 518-527 | 5.1 | 21 |
| 373 | Prediction of compounds with closely related activity profiles using weighted support vector machine linear combinations. <i>Journal of Chemical Information and Modeling</i> , 2013 , 53, 791-801 | 6.1 | 21 |
| 372 | A data mining method to facilitate SAR transfer. <i>Journal of Chemical Information and Modeling</i> , 2011 , 51, 1857-66 | 6.1 | 21 |
| 371 | Bayesian interpretation of a distance function for navigating high-dimensional descriptor spaces. <i>Journal of Chemical Information and Modeling</i> , 2007 , 47, 39-46 | 6.1 | 21 |
| 370 | Systematic artifacts in support vector regression-based compound potency prediction revealed by statistical and activity landscape analysis. <i>PLoS ONE</i> , 2015 , 10, e0119301 | 3.7 | 21 |
| 369 | Design of an Activity-Based Probe for Human Neutrophil Elastase: Implementation of the Lossen Rearrangement To Induce F ₁ ster Resonance Energy Transfers. <i>Biochemistry</i> , 2018 , 57, 742-752 | 3.2 | 20 |
| 368 | Promiscuity of inhibitors of human protein kinases at varying data confidence levels and test frequencies. <i>RSC Advances</i> , 2017 , 7, 41265-41271 | 3.7 | 20 |
| 367 | Activity profiles of analog series containing pan assay interference compounds. <i>RSC Advances</i> , 2017 , 7, 35638-35647 | 3.7 | 20 |

| | | | |
|-----|--|-----|----|
| 366 | Classification of compounds with distinct or overlapping multi-target activities and diverse molecular mechanisms using emerging chemical patterns. <i>Journal of Chemical Information and Modeling</i> , 2013 , 53, 1272-81 | 6.1 | 20 |
| 365 | How do 2D fingerprints detect structurally diverse active compounds? Revealing compound subset-specific fingerprint features through systematic selection. <i>Journal of Chemical Information and Modeling</i> , 2011 , 51, 2254-65 | 6.1 | 20 |
| 364 | REPROVIS-DB: a benchmark system for ligand-based virtual screening derived from reproducible prospective applications. <i>Journal of Chemical Information and Modeling</i> , 2011 , 51, 2467-73 | 6.1 | 20 |
| 363 | SAR monitoring of evolving compound data sets using activity landscapes. <i>Journal of Chemical Information and Modeling</i> , 2011 , 51, 532-40 | 6.1 | 20 |
| 362 | Reduction and recombination of fingerprints of different design increase compound recall and the structural diversity of hits. <i>Chemical Biology and Drug Design</i> , 2010 , 75, 152-60 | 2.9 | 20 |
| 361 | Global assessment of scaffold hopping potential for current pharmaceutical targets. <i>MedChemComm</i> , 2010 , 1, 339-344 | 5 | 20 |
| 360 | Introduction of a generally applicable method to estimate retrieval of active molecules for similarity searching using fingerprints. <i>ChemMedChem</i> , 2007 , 2, 1311-20 | 3.7 | 20 |
| 359 | Memory-assisted reinforcement learning for diverse molecular de novo design. <i>Journal of Cheminformatics</i> , 2020 , 12, 68 | 8.6 | 20 |
| 358 | Advances in Activity Cliff Research. <i>Molecular Informatics</i> , 2016 , 35, 181-91 | 3.8 | 20 |
| 357 | Machine Learning Models for Accurate Prediction of Kinase Inhibitors with Different Binding Modes. <i>Journal of Medicinal Chemistry</i> , 2020 , 63, 8738-8748 | 8.3 | 20 |
| 356 | Exploring the scaffold universe of kinase inhibitors. <i>Journal of Medicinal Chemistry</i> , 2015 , 58, 315-32 | 8.3 | 19 |
| 355 | Isonicotinohydrazones as inhibitors of alkaline phosphatase and ecto-5'-nucleotidase. <i>Chemical Biology and Drug Design</i> , 2017 , 89, 365-370 | 2.9 | 19 |
| 354 | Systematic assessment of compound series with SAR transfer potential. <i>Journal of Chemical Information and Modeling</i> , 2012 , 52, 3138-43 | 6.1 | 19 |
| 353 | Predicting potent compounds via model-based global optimization. <i>Journal of Chemical Information and Modeling</i> , 2013 , 53, 553-9 | 6.1 | 19 |
| 352 | Introduction of the conditional correlated Bernoulli model of similarity value distributions and its application to the prospective prediction of fingerprint search performance. <i>Journal of Chemical Information and Modeling</i> , 2011 , 51, 2496-506 | 6.1 | 19 |
| 351 | Computational methodologies for compound database searching that utilize experimental protein-ligand interaction information. <i>Chemical Biology and Drug Design</i> , 2010 , 76, 191-200 | 2.9 | 19 |
| 350 | Determination and mapping of activity-specific descriptor value ranges for the identification of active compounds. <i>Journal of Medicinal Chemistry</i> , 2006 , 49, 2284-93 | 8.3 | 19 |
| 349 | The 'SAR Matrix' method and its extensions for applications in medicinal chemistry and chemogenomics. <i>F1000Research</i> , 2014 , 3, 113 | 3.6 | 19 |

| | | | |
|-----|---|-----|----|
| 348 | Phosphono Bisbenzguanidines as Irreversible Dipeptidomimetic Inhibitors and Activity-Based Probes of Matriptase-2. <i>Chemistry - A European Journal</i> , 2016 , 22, 8525-35 | 4.8 | 19 |
| 347 | Machine Learning Distinguishes with High Accuracy between Pan-Assay Interference Compounds That Are Promiscuous or Represent Dark Chemical Matter. <i>Journal of Medicinal Chemistry</i> , 2018 , 61, 10255-10264 | 8.3 | 19 |
| 346 | Influence of Varying Training Set Composition and Size on Support Vector Machine-Based Prediction of Active Compounds. <i>Journal of Chemical Information and Modeling</i> , 2017 , 57, 710-716 | 6.1 | 18 |
| 345 | X-ray Structures of Target-Ligand Complexes Containing Compounds with Assay Interference Potential. <i>Journal of Medicinal Chemistry</i> , 2018 , 61, 1276-1284 | 8.3 | 18 |
| 344 | Prediction of Activity Cliffs Using Condensed Graphs of Reaction Representations, Descriptor Recombination, Support Vector Machine Classification, and Support Vector Regression. <i>Journal of Chemical Information and Modeling</i> , 2016 , 56, 1631-40 | 6.1 | 18 |
| 343 | Neighborhood-based prediction of novel active compounds from SAR matrices. <i>Journal of Chemical Information and Modeling</i> , 2014 , 54, 801-9 | 6.1 | 18 |
| 342 | Chemical transformations that yield compounds with distinct activity profiles. <i>ACS Medicinal Chemistry Letters</i> , 2011 , 2, 523-7 | 4.3 | 18 |
| 341 | Extracting SAR Information from a Large Collection of Anti-Malarial Screening Hits by NSG-SPT Analysis. <i>ACS Medicinal Chemistry Letters</i> , 2011 , 2, 201-6 | 4.3 | 18 |
| 340 | Towards Unified Compound Screening Strategies: A Critical Evaluation of Error Sources in Experimental and Virtual High-Throughput Screening. <i>QSAR and Combinatorial Science</i> , 2006 , 25, 1153-1161 | | 18 |
| 339 | Distribution of Molecular Scaffolds and R-Groups Isolated from Large Compound Databases. <i>Journal of Molecular Modeling</i> , 1999 , 5, 97-102 | 2 | 18 |
| 338 | Comparison of bioactive chemical space networks generated using substructure- and fingerprint-based measures of molecular similarity. <i>Journal of Computer-Aided Molecular Design</i> , 2015 , 29, 595-608 | 4.2 | 17 |
| 337 | En Route to New Therapeutic Options for Iron Overload Diseases: Matriptase-2 as a Target for Kunitz-Type Inhibitors. <i>ChemBioChem</i> , 2016 , 17, 595-604 | 3.8 | 17 |
| 336 | Combining structural and bioactivity-based fingerprints improves prediction performance and scaffold-hopping capability. <i>Journal of Cheminformatics</i> , 2019 , 11, 54 | 8.6 | 17 |
| 335 | Berberine Reduces Neurotoxicity Related to Nonalcoholic Steatohepatitis in Rats. <i>Evidence-based Complementary and Alternative Medicine</i> , 2015 , 2015, 361847 | 2.3 | 17 |
| 334 | Introducing the LASSO graph for compound data set representation and structure-activity relationship analysis. <i>Journal of Medicinal Chemistry</i> , 2012 , 55, 5546-53 | 8.3 | 17 |
| 333 | Identification of target family directed bioisosteric replacements. <i>MedChemComm</i> , 2011 , 2, 601-606 | 5 | 17 |
| 332 | Computational approaches in chemogenomics and chemical biology: current and future impact on drug discovery. <i>Expert Opinion on Drug Discovery</i> , 2008 , 3, 1371-6 | 6.2 | 17 |
| 331 | Mining of randomly generated molecular fragment populations uncovers activity-specific fragment hierarchies. <i>Journal of Chemical Information and Modeling</i> , 2007 , 47, 1405-13 | 6.1 | 17 |

| | | | |
|-----|--|-----|----|
| 330 | Exploring structure-selectivity relationships of biogenic amine GPCR antagonists using similarity searching and dynamic compound mapping. <i>Molecular Diversity</i> , 2008 , 12, 25-40 | 3.1 | 17 |
| 329 | X-ray-Structure-Based Identification of Compounds with Activity against Targets from Different Families and Generation of Templates for Multitarget Ligand Design. <i>ACS Omega</i> , 2018 , 3, 106-111 | 3.9 | 16 |
| 328 | Prediction of compound potency changes in matched molecular pairs using support vector regression. <i>Journal of Chemical Information and Modeling</i> , 2014 , 54, 2654-63 | 6.1 | 16 |
| 327 | Assessing the confidence level of public domain compound activity data and the impact of alternative potency measurements on SAR analysis. <i>Journal of Chemical Information and Modeling</i> , 2011 , 51, 3131-7 | 6.1 | 16 |
| 326 | Atom-centered interacting fragments and similarity search applications. <i>Journal of Chemical Information and Modeling</i> , 2010 , 50, 79-86 | 6.1 | 16 |
| 325 | Bayesian similarity searching in high-dimensional descriptor spaces combined with Kullback-Leibler descriptor divergence analysis. <i>Journal of Chemical Information and Modeling</i> , 2008 , 48, 247-55 | 6.1 | 16 |
| 324 | Similarity searching using compound class-specific combinations of substructures found in randomly generated molecular fragment populations. <i>ChemMedChem</i> , 2008 , 3, 67-73 | 3.7 | 16 |
| 323 | Computational Analysis of Kinase Inhibitors Identifies Promiscuity Cliffs across the Human Kinome. <i>ACS Omega</i> , 2018 , 3, 17295-17308 | 3.9 | 16 |
| 322 | Identification and analysis of promiscuity cliffs formed by bioactive compounds and experimental implications. <i>RSC Advances</i> , 2017 , 7, 58-66 | 3.7 | 15 |
| 321 | Identification of Compounds That Interfere with High-Throughput Screening Assay Technologies. <i>ChemMedChem</i> , 2019 , 14, 1795-1802 | 3.7 | 15 |
| 320 | Benzothiazolyl substituted iminothiazolidinones and benzamido-oxothiazolidines as potent and partly selective aldose reductase inhibitors. <i>MedChemComm</i> , 2014 , 5, 1371-1380 | 5 | 15 |
| 319 | A Perspective on Computational Chemogenomics. <i>Molecular Informatics</i> , 2013 , 32, 1025-8 | 3.8 | 15 |
| 318 | Molecular mechanism-based network-like similarity graphs reveal relationships between different types of receptor ligands and structural changes that determine agonistic, inverse-agonistic, and antagonistic effects. <i>Journal of Chemical Information and Modeling</i> , 2011 , 51, 1281-6 | 6.1 | 15 |
| 317 | Utilizing target-ligand interaction information in fingerprint searching for ligands of related targets. <i>Chemical Biology and Drug Design</i> , 2009 , 74, 25-32 | 2.9 | 15 |
| 316 | Development of a compound class-directed similarity coefficient that accounts for molecular complexity effects in fingerprint searching. <i>Journal of Chemical Information and Modeling</i> , 2009 , 49, 1369-76 | 6.1 | 15 |
| 315 | Shannon entropy-based fingerprint similarity search strategy. <i>Journal of Chemical Information and Modeling</i> , 2009 , 49, 1687-91 | 6.1 | 15 |
| 314 | Molecular similarity concepts and search calculations. <i>Methods in Molecular Biology</i> , 2008 , 453, 327-47 | 1.4 | 15 |
| 313 | Monitoring drug promiscuity over time. <i>F1000Research</i> , 2014 , 3, 218 | 3.6 | 15 |

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|-----|--|-----|----|
| 312 | Informatics for Chemistry, Biology, and Biomedical Sciences. <i>Journal of Chemical Information and Modeling</i> , 2021 , 61, 26-35 | 6.1 | 15 |
| 311 | Mapping of inhibitors and activity data to the human kinome and exploring promiscuity from a ligand and target perspective. <i>Chemical Biology and Drug Design</i> , 2017 , 89, 834-845 | 2.9 | 14 |
| 310 | Prediction of Different Classes of Promiscuous and Nonpromiscuous Compounds Using Machine Learning and Nearest Neighbor Analysis. <i>ACS Omega</i> , 2019 , 4, 6883-6890 | 3.9 | 14 |
| 309 | Design, characterization and cellular uptake studies of fluorescence-labeled prototypic cathepsin inhibitors. <i>Organic and Biomolecular Chemistry</i> , 2015 , 13, 10310-23 | 3.9 | 14 |
| 308 | Method for the evaluation of structure-activity relationship information associated with coordinated activity cliffs. <i>Journal of Medicinal Chemistry</i> , 2014 , 57, 6553-63 | 8.3 | 14 |
| 307 | Directed R-group combination graph: a methodology to uncover structure-activity relationship patterns in a series of analogues. <i>Journal of Medicinal Chemistry</i> , 2012 , 55, 1215-26 | 8.3 | 14 |
| 306 | Fingerprint design and engineering strategies: rationalizing and improving similarity search performance. <i>Future Medicinal Chemistry</i> , 2012 , 4, 1945-59 | 4.1 | 14 |
| 305 | Advances in 2D fingerprint similarity searching. <i>Expert Opinion on Drug Discovery</i> , 2010 , 5, 529-42 | 6.2 | 14 |
| 304 | Relevance of feature combinations for similarity searching using general or activity class-directed molecular fingerprints. <i>Journal of Chemical Information and Modeling</i> , 2009 , 49, 561-70 | 6.1 | 14 |
| 303 | Three-dimensional protein-ligand interaction scaling of two-dimensional fingerprints. <i>Chemical Biology and Drug Design</i> , 2009 , 74, 449-56 | 2.9 | 14 |
| 302 | Exploring target-selectivity patterns of molecular scaffolds. <i>ACS Medicinal Chemistry Letters</i> , 2010 , 1, 54-8 | 4.3 | 14 |
| 301 | A dual fingerprint-based metric for the design of focused compound libraries and analogs. <i>Journal of Molecular Modeling</i> , 2001 , 7, 125-131 | 2 | 14 |
| 300 | Structure-Promiscuity Relationship Puzzles-Extensively Assayed Analogs with Large Differences in Target Annotations. <i>AAPS Journal</i> , 2017 , 19, 856-864 | 3.7 | 13 |
| 299 | Promiscuous Ligands from Experimentally Determined Structures, Binding Conformations, and Protein Family-Dependent Interaction Hotspots. <i>ACS Omega</i> , 2019 , 4, 1729-1737 | 3.9 | 13 |
| 298 | Integrating the Structure-Activity Relationship Matrix Method with Molecular Grid Maps and Activity Landscape Models for Medicinal Chemistry Applications. <i>ACS Omega</i> , 2019 , 4, 7061-7069 | 3.9 | 13 |
| 297 | Exploring Selectivity of Multikinase Inhibitors across the Human Kinome. <i>ACS Omega</i> , 2018 , 3, 1147-1153 | 3.9 | 13 |
| 296 | Rationalizing the Formation of Activity Cliffs in Different Compound Data Sets. <i>ACS Omega</i> , 2018 , 3, 7736-7744 | 3.9 | 13 |
| 295 | Promiscuity profiles of bioactive compounds: potency range and difference distributions and the relation to target numbers and families. <i>MedChemComm</i> , 2013 , 4, 1196 | 5 | 13 |

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|-----|--|-----|----|
| 294 | Searching for coordinated activity cliffs using particle swarm optimization. <i>Journal of Chemical Information and Modeling</i> , 2012 , 52, 927-34 | 6.1 | 13 |
| 293 | Navigating high-dimensional activity landscapes: design and application of the ligand-target differentiation map. <i>Journal of Chemical Information and Modeling</i> , 2012 , 52, 1962-9 | 6.1 | 13 |
| 292 | Comparison of two- and three-dimensional activity landscape representations for different compound data sets. <i>MedChemComm</i> , 2011 , 2, 113-118 | 5 | 13 |
| 291 | Extraction of structure-activity relationship information from high-throughput screening data. <i>Current Medicinal Chemistry</i> , 2009 , 16, 4049-57 | 4.3 | 13 |
| 290 | Systematic extraction of structure-activity relationship information from biological screening data. <i>ChemMedChem</i> , 2009 , 4, 1431-8 | 3.7 | 13 |
| 289 | Mapping of pharmacological space. <i>Expert Opinion on Drug Discovery</i> , 2011 , 6, 1-7 | 6.2 | 13 |
| 288 | Monitoring drug promiscuity over time. <i>F1000Research</i> , 2014 , 3, 218 | 3.6 | 13 |
| 287 | Virtual Screening with Generative Topographic Maps: How Many Maps Are Required?. <i>Journal of Chemical Information and Modeling</i> , 2019 , 59, 564-572 | 6.1 | 13 |
| 286 | Application of a New Scaffold Concept for Computational Target Deconvolution of Chemical Cancer Cell Line Screens. <i>ACS Omega</i> , 2017 , 2, 1463-1468 | 3.9 | 12 |
| 285 | Recent Progress in Structure-Based Evaluation of Compound Promiscuity. <i>ACS Omega</i> , 2019 , 4, 2758-2765 | 3.9 | 12 |
| 284 | Reconciling Selectivity Trends from a Comprehensive Kinase Inhibitor Profiling Campaign with Known Activity Data. <i>ACS Omega</i> , 2018 , 3, 3113-3119 | 3.9 | 12 |
| 283 | Rationalizing Promiscuity Cliffs. <i>ChemMedChem</i> , 2018 , 13, 490-494 | 3.7 | 12 |
| 282 | Predicting bioactive conformations and binding modes of macrocycles. <i>Journal of Computer-Aided Molecular Design</i> , 2016 , 30, 841-849 | 4.2 | 12 |
| 281 | One-pot synthesis of tetrazole-1,2,5,6-tetrahydronicotinonitriles and cholinesterase inhibition: Probing the plausible reaction mechanism via computational studies. <i>Bioorganic Chemistry</i> , 2016 , 65, 38-47 | 5.1 | 12 |
| 280 | Design of chemical space networks on the basis of Tversky similarity. <i>Journal of Computer-Aided Molecular Design</i> , 2016 , 30, 1-12 | 4.2 | 12 |
| 279 | Many drugs contain unique scaffolds with varying structural relationships to scaffolds of currently available bioactive compounds. <i>European Journal of Medicinal Chemistry</i> , 2014 , 76, 427-34 | 6.8 | 12 |
| 278 | Introduction of a methodology for visualization and graphical interpretation of Bayesian classification models. <i>Journal of Chemical Information and Modeling</i> , 2014 , 54, 2451-68 | 6.1 | 12 |
| 277 | Many approved drugs have bioactive analogs with different target annotations. <i>AAPS Journal</i> , 2014 , 16, 847-59 | 3.7 | 12 |

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|-----|--|-----|----|
| 276 | Heat shock protein 90 and serine/threonine kinase B-Raf inhibitors have overlapping chemical space. <i>RSC Advances</i> , 2017 , 7, 31069-31074 | 3.7 | 12 |
| 275 | Many structurally related drugs bind different targets whereas distinct drugs display significant target overlap. <i>RSC Advances</i> , 2012 , 2, 3481 | 3.7 | 12 |
| 274 | Graph mining for SAR transfer series. <i>Journal of Chemical Information and Modeling</i> , 2012 , 52, 935-42 | 6.1 | 12 |
| 273 | Representation of multi-target activity landscapes through target pair-based compound encoding in self-organizing maps. <i>Chemical Biology and Drug Design</i> , 2011 , 78, 778-86 | 2.9 | 12 |
| 272 | Design and evaluation of bonded atom pair descriptors. <i>Journal of Chemical Information and Modeling</i> , 2010 , 50, 487-99 | 6.1 | 12 |
| 271 | Combining horizontal and vertical substructure relationships in scaffold hierarchies for activity prediction. <i>Journal of Chemical Information and Modeling</i> , 2011 , 51, 248-57 | 6.1 | 12 |
| 270 | Advanced fingerprint methods for similarity searching: balancing molecular complexity effects. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2010 , 13, 220-8 | 1.3 | 12 |
| 269 | Quantifying the tendency of therapeutic target proteins to bind promiscuous or selective compounds. <i>PLoS ONE</i> , 2015 , 10, e0126838 | 3.7 | 12 |
| 268 | Prediction of Compound Profiling Matrices, Part II: Relative Performance of Multitask Deep Learning and Random Forest Classification on the Basis of Varying Amounts of Training Data. <i>ACS Omega</i> , 2018 , 3, 12033-12040 | 3.9 | 12 |
| 267 | A Fluorescent-Labeled Phosphono Bisbenzguanidine As an Activity-Based Probe for Matriptase. <i>Chemistry - A European Journal</i> , 2017 , 23, 5205-5209 | 4.8 | 11 |
| 266 | Systematic Data Analysis and Diagnostic Machine Learning Reveal Differences between Compounds with Single- and Multitarget Activity. <i>Molecular Pharmaceutics</i> , 2020 , 17, 4652-4666 | 5.6 | 11 |
| 265 | Exploring Activity Cliffs from a Chemoinformatics Perspective. <i>Molecular Informatics</i> , 2014 , 33, 438-42 | 3.8 | 11 |
| 264 | Extraction of SAR information from activity cliff clusters via matching molecular series. <i>European Journal of Medicinal Chemistry</i> , 2014 , 87, 454-60 | 6.8 | 11 |
| 263 | Quantifying the fingerprint descriptor dependence of structure-activity relationship information on a large scale. <i>Journal of Chemical Information and Modeling</i> , 2013 , 53, 2275-81 | 6.1 | 11 |
| 262 | Prediction of individual compounds forming activity cliffs using emerging chemical patterns. <i>Journal of Chemical Information and Modeling</i> , 2013 , 53, 3131-9 | 6.1 | 11 |
| 261 | Activity cliffs in PubChem confirmatory bioassays taking inactive compounds into account. <i>Journal of Computer-Aided Molecular Design</i> , 2013 , 27, 115-24 | 4.2 | 11 |
| 260 | Evolution of the activity cliff concept for structure-activity relationship analysis and drug discovery. <i>Future Medicinal Chemistry</i> , 2014 , 6, 1545-9 | 4.1 | 11 |
| 259 | Methods for computer-aided chemical biology. Part 4: selectivity searching for ion channel ligands and mapping of molecular fragments as selectivity markers. <i>Chemical Biology and Drug Design</i> , 2009 , 73, 273-82 | 2.9 | 11 |

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|-----|--|-----|----|
| 258 | Molecular Formal Concept Analysis for compound selectivity profiling in biologically annotated databases. <i>Journal of Chemical Information and Modeling</i> , 2009 , 49, 1359-68 | 6.1 | 11 |
| 257 | Structural and potency relationships between scaffolds of compounds active against human targets. <i>ChemMedChem</i> , 2010 , 5, 1681-5 | 3.7 | 11 |
| 256 | Analysis of Chemical Information Content Using Shannon Entropy. <i>Reviews in Computational Chemistry</i> , 2007 , 263-289 | | 11 |
| 255 | RelACCS-FP: a structural minimalist approach to fingerprint design. <i>Chemical Biology and Drug Design</i> , 2008 , 72, 341-9 | 2.9 | 11 |
| 254 | Chemical space visualization: transforming multidimensional chemical spaces into similarity-based molecular networks. <i>Future Medicinal Chemistry</i> , 2016 , 8, 1769-78 | 4.1 | 11 |
| 253 | Computational Method to Evaluate Progress in Lead Optimization. <i>Journal of Medicinal Chemistry</i> , 2018 , 61, 10895-10900 | 8.3 | 11 |
| 252 | Current Trends, Overlooked Issues, and Unmet Challenges in Virtual Screening. <i>Journal of Chemical Information and Modeling</i> , 2020 , 60, 4112-4115 | 6.1 | 10 |
| 251 | Computational method for estimating progression saturation of analog series.. <i>RSC Advances</i> , 2018 , 8, 5484-5492 | 3.7 | 10 |
| 250 | Binding mode similarity measures for ranking of docking poses: a case study on the adenosine A2A receptor. <i>Journal of Computer-Aided Molecular Design</i> , 2016 , 30, 447-56 | 4.2 | 10 |
| 249 | Introducing a new category of activity cliffs with chemical modifications at multiple sites and rationalizing contributions of individual substitutions. <i>Bioorganic and Medicinal Chemistry</i> , 2019 , 27, 3605-3612 | 3.4 | 10 |
| 248 | Conditional probabilities of activity landscape features for individual compounds. <i>Journal of Chemical Information and Modeling</i> , 2013 , 53, 1602-12 | 6.1 | 10 |
| 247 | Activity profile relationships between structurally similar promiscuous compounds. <i>European Journal of Medicinal Chemistry</i> , 2013 , 69, 393-8 | 6.8 | 10 |
| 246 | Exploring SAR continuity in the vicinity of activity cliffs. <i>Chemical Biology and Drug Design</i> , 2012 , 79, 22-92.9 | | 10 |
| 245 | SAR transfer across different targets. <i>Journal of Chemical Information and Modeling</i> , 2013 , 53, 1589-94 | 6.1 | 10 |
| 244 | Systematic mining of analog series with related core structures in multi-target activity space. <i>Journal of Computer-Aided Molecular Design</i> , 2013 , 27, 665-74 | 4.2 | 10 |
| 243 | Applied Virtual Screening: Strategies, Recommendations, and Caveats. <i>Methods and Principles in Medicinal Chemistry</i> , 2011 , 291-318 | 0.4 | 10 |
| 242 | Application of Information Theoretic Concepts in Chemoinformatics. <i>Information (Switzerland)</i> , 2010 , 1, 60-73 | 2.6 | 10 |
| 241 | Random reduction in fingerprint bit density improves compound recall in search calculations using complex reference molecules. <i>Chemical Biology and Drug Design</i> , 2008 , 71, 511-7 | 2.9 | 10 |

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|-----|--|-----|----|
| 240 | Activity artifacts in drug discovery and different facets of compound promiscuity. <i>F1000Research</i> , 2014 , 3, 233 | 3.6 | 10 |
| 239 | Identifying Promiscuous Compounds with Activity against Different Target Classes. <i>Molecules</i> , 2019 , 24, | 4.8 | 10 |
| 238 | Modeling Tanimoto Similarity Value Distributions and Predicting Search Results. <i>Molecular Informatics</i> , 2017 , 36, 1600131 | 3.8 | 9 |
| 237 | Extension of three-dimensional activity cliff information through systematic mapping of active analogs. <i>RSC Advances</i> , 2015 , 5, 43006-43015 | 3.7 | 9 |
| 236 | Monitoring global growth of activity cliff information over time and assessing activity cliff frequencies and distributions. <i>Future Medicinal Chemistry</i> , 2015 , 7, 1565-79 | 4.1 | 9 |
| 235 | Identification and analysis of the currently available high-confidence three-dimensional activity cliffs. <i>RSC Advances</i> , 2015 , 5, 43660-43668 | 3.7 | 9 |
| 234 | AnalogExplorer: a new method for graphical analysis of analog series and associated structure-activity relationship information. <i>Journal of Medicinal Chemistry</i> , 2014 , 57, 9184-94 | 8.3 | 9 |
| 233 | Similarity searching for potent compounds using feature selection. <i>Journal of Chemical Information and Modeling</i> , 2013 , 53, 1613-9 | 6.1 | 9 |
| 232 | Assessing Scaffold Diversity of Kinase Inhibitors Using Alternative Scaffold Concepts and Estimating the Scaffold Hopping Potential for Different Kinases. <i>Molecules</i> , 2017 , 22, | 4.8 | 9 |
| 231 | Filtering and counting of extended connectivity fingerprint features maximizes compound recall and the structural diversity of hits. <i>Chemical Biology and Drug Design</i> , 2009 , 74, 92-8 | 2.9 | 9 |
| 230 | Rendering conventional molecular fingerprints for virtual screening independent of molecular complexity and size effects. <i>ChemMedChem</i> , 2010 , 5, 859-68 | 3.7 | 9 |
| 229 | Understanding chemoinformatics: a unifying approach. <i>Drug Discovery Today</i> , 2004 , 9, 13-4 | 8.8 | 9 |
| 228 | Recent developments in SAR visualization. <i>MedChemComm</i> , 2016 , 7, 1045-1055 | 5 | 9 |
| 227 | Three-Dimensional Activity Landscape Models of Different Design and Their Application to Compound Mapping and Potency Prediction. <i>Journal of Chemical Information and Modeling</i> , 2019 , 59, 993-1004 | 6.1 | 9 |
| 226 | MOLECULAR SIMILARITY ANALYSIS343-399 | | 9 |
| 225 | Compound Data Mining for Drug Discovery. <i>Methods in Molecular Biology</i> , 2017 , 1526, 247-256 | 1.4 | 8 |
| 224 | Systematic computational identification of promiscuity cliff pathways formed by inhibitors of the human kinome. <i>Journal of Computer-Aided Molecular Design</i> , 2019 , 33, 559-572 | 4.2 | 8 |
| 223 | Assessing the information content of structural and protein-ligand interaction representations for the classification of kinase inhibitor binding modes via machine learning and active learning. <i>Journal of Cheminformatics</i> , 2020 , 12, 36 | 8.6 | 8 |

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|-----|---|-----|---|
| 222 | Mapping the S1 and S1' subsites of cysteine proteases with new dipeptidyl nitrile inhibitors as trypanocidal agents. <i>PLoS Neglected Tropical Diseases</i> , 2020 , 14, e0007755 | 4.8 | 8 |
| 221 | Extracting Compound Profiling Matrices from Screening Data. <i>ACS Omega</i> , 2018 , 3, 4706-4712 | 3.9 | 8 |
| 220 | Maximum common substructure-based Tversky index: an asymmetric hybrid similarity measure. <i>Journal of Computer-Aided Molecular Design</i> , 2016 , 30, 523-31 | 4.2 | 8 |
| 219 | Assessing the Growth of Bioactive Compounds and Scaffolds over Time: Implications for Lead Discovery and Scaffold Hopping. <i>Journal of Chemical Information and Modeling</i> , 2016 , 56, 300-7 | 6.1 | 8 |
| 218 | Introducing the 'active search' method for iterative virtual screening. <i>Journal of Computer-Aided Molecular Design</i> , 2015 , 29, 305-14 | 4.2 | 8 |
| 217 | Mechanism-based bipartite matching molecular series graphs to identify structural modifications of receptor ligands that lead to mechanism hopping. <i>MedChemComm</i> , 2012 , 3, 441 | 5 | 8 |
| 216 | Identification of multitarget activity ridges in high-dimensional bioactivity spaces. <i>Journal of Chemical Information and Modeling</i> , 2012 , 52, 2579-86 | 6.1 | 8 |
| 215 | Large-scale SAR analysis. <i>Drug Discovery Today: Technologies</i> , 2013 , 10, e419-26 | 7.1 | 8 |
| 214 | Potency-directed similarity searching using support vector machines. <i>Chemical Biology and Drug Design</i> , 2011 , 77, 30-8 | 2.9 | 8 |
| 213 | Random molecular fragment methods in computational medicinal chemistry. <i>Current Medicinal Chemistry</i> , 2008 , 15, 2108-21 | 4.3 | 8 |
| 212 | Computational design of new molecular scaffolds for medicinal chemistry, part II: generalization of analog series-based scaffolds. <i>Future Science OA</i> , 2018 , 4, FSO267 | 2.7 | 8 |
| 211 | Analysis of Biological Screening Compounds with Single- or Multi-Target Activity via Diagnostic Machine Learning. <i>Biomolecules</i> , 2020 , 10, | 5.9 | 8 |
| 210 | Syntheses, cholinesterases inhibition, and molecular docking studies of pyrido[2,3-b]pyrazine derivatives. <i>Chemical Biology and Drug Design</i> , 2015 , 86, 1115-20 | 2.9 | 7 |
| 209 | Deep SAR matrix: SAR matrix expansion for advanced analog design using deep learning architectures. <i>Future Drug Discovery</i> , 2020 , 2, FDD36 | 2 | 7 |
| 208 | Limiting the Number of Potential Binding Modes by Introducing Symmetry into Ligands: Structure-Based Design of Inhibitors for Trypsin-Like Serine Proteases. <i>Chemistry - A European Journal</i> , 2016 , 22, 610-25 | 4.8 | 7 |
| 207 | Classification of matching molecular series on the basis of SAR phenotypes and structural relationships. <i>MedChemComm</i> , 2016 , 7, 237-246 | 5 | 7 |
| 206 | Second-generation activity cliffs identified on the basis of target set-dependent potency difference criteria. <i>Future Medicinal Chemistry</i> , 2019 , 11, 379-394 | 4.1 | 7 |
| 205 | Evaluation of molecular model-based discovery of ecto-5'-nucleotidase inhibitors on the basis of X-ray structures. <i>Bioorganic and Medicinal Chemistry</i> , 2013 , 21, 6616-22 | 3.4 | 7 |

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|-----|---|-----|---|
| 204 | Systematic Identification of Matching Molecular Series and Mapping of Screening Hits. <i>Molecular Informatics</i> , 2014 , 33, 257-63 | 3.8 | 7 |
| 203 | Compound pathway model to capture SAR progression: comparison of activity cliff-dependent and -independent pathways. <i>Journal of Chemical Information and Modeling</i> , 2013 , 53, 1067-72 | 6.1 | 7 |
| 202 | Target family-directed exploration of scaffolds with different SAR profiles. <i>Journal of Chemical Information and Modeling</i> , 2011 , 51, 3138-48 | 6.1 | 7 |
| 201 | Exploring differential evolution for inverse QSAR analysis. <i>F1000Research</i> , 2017 , 6, 1285 | 3.6 | 7 |
| 200 | Promiscuity progression of bioactive compounds over time. <i>F1000Research</i> , 2015 , 4, 118 | 3.6 | 7 |
| 199 | Rationality over fashion and hype in drug design. <i>F1000Research</i> , 2021 , 10, | 3.6 | 7 |
| 198 | Analyzing Promiscuity at the Level of Active Compounds and Targets. <i>Molecular Informatics</i> , 2016 , 35, 583-587 | 3.8 | 7 |
| 197 | Computational Assessment of Chemical Saturation of Analogue Series under Varying Conditions. <i>ACS Omega</i> , 2018 , 3, 15799-15808 | 3.9 | 7 |
| 196 | Data-Driven Exploration of Selectivity and Off-Target Activities of Designated Chemical Probes. <i>Molecules</i> , 2018 , 23, | 4.8 | 7 |
| 195 | Privileged Structural Motif Detection and Analysis Using Generative Topographic Maps. <i>Journal of Chemical Information and Modeling</i> , 2017 , 57, 1218-1232 | 6.1 | 6 |
| 194 | A general approach for retrosynthetic molecular core analysis. <i>Journal of Cheminformatics</i> , 2019 , 11, 61 | 8.6 | 6 |
| 193 | Systematic assessment of coordinated activity cliffs formed by kinase inhibitors and detailed characterization of activity cliff clusters and associated SAR information. <i>European Journal of Medicinal Chemistry</i> , 2015 , 90, 414-27 | 6.8 | 6 |
| 192 | X-ray Structure-Based Chemoinformatic Analysis Identifies Promiscuous Ligands Binding to Proteins from Different Classes with Varying Shapes. <i>International Journal of Molecular Sciences</i> , 2020 , 21, | 6.3 | 6 |
| 191 | Design of a tripartite network for the prediction of drug targets. <i>Journal of Computer-Aided Molecular Design</i> , 2018 , 32, 321-330 | 4.2 | 6 |
| 190 | Evaluation of bisbenzamidines as inhibitors for matriptase-2. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016 , 26, 3741-5 | 2.9 | 6 |
| 189 | Improving the utility of molecular scaffolds for medicinal and computational chemistry. <i>Future Medicinal Chemistry</i> , 2018 , 10, 1645-1648 | 4.1 | 6 |
| 188 | Introduction of target cliffs as a concept to identify and describe complex molecular selectivity patterns. <i>Journal of Chemical Information and Modeling</i> , 2013 , 53, 545-52 | 6.1 | 6 |
| 187 | Design of a three-dimensional multitarget activity landscape. <i>Journal of Chemical Information and Modeling</i> , 2012 , 52, 2876-83 | 6.1 | 6 |

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|-----|--|-----|---|
| 186 | Multiobjective particle swarm optimization: automated identification of structure-activity relationship-informative compounds with favorable physicochemical property distributions. <i>Journal of Chemical Information and Modeling</i> , 2012 , 52, 2848-55 | 6.1 | 6 |
| 185 | Computational analysis of activity and selectivity cliffs. <i>Methods in Molecular Biology</i> , 2011 , 672, 119-32 | 1.4 | 6 |
| 184 | Application of support vector machine-based ranking strategies to search for target-selective compounds. <i>Methods in Molecular Biology</i> , 2011 , 672, 517-30 | 1.4 | 6 |
| 183 | Hit expansion through computational selectivity searching. <i>ChemMedChem</i> , 2009 , 4, 52-4 | 3.7 | 6 |
| 182 | Predicting the performance of fingerprint similarity searching. <i>Methods in Molecular Biology</i> , 2011 , 672, 159-73 | 1.4 | 6 |
| 181 | Follow-up: Prospective compound design using the SAR Matrix method and matrix-derived conditional probabilities of activity. <i>F1000Research</i> , 2015 , 4, 75 | 3.6 | 6 |
| 180 | Follow-up: Prospective compound design using the 'SAR Matrix' method and matrix-derived conditional probabilities of activity. <i>F1000Research</i> , 2015 , 4, 75 | 3.6 | 6 |
| 179 | Analyzing compound activity records and promiscuity degrees in light of publication statistics. <i>F1000Research</i> , 2016 , 5, | 3.6 | 6 |
| 178 | Data structures for computational compound promiscuity analysis and exemplary applications to inhibitors of the human kinome. <i>Journal of Computer-Aided Molecular Design</i> , 2020 , 34, 1-10 | 4.2 | 6 |
| 177 | Compounds with multitarget activity: structure-based analysis and machine learning. <i>Future Drug Discovery</i> , 2020 , 2, FDD44 | 2 | 6 |
| 176 | Machine learning reveals that structural features distinguishing promiscuous and non-promiscuous compounds depend on target combinations. <i>Scientific Reports</i> , 2021 , 11, 7863 | 4.9 | 6 |
| 175 | Systematic Assessment of Molecular Selectivity at the Level of Targets, Bioactive Compounds, and Structural Analogues. <i>ChemMedChem</i> , 2016 , 11, 1362-70 | 3.7 | 6 |
| 174 | Exploring Alternative Strategies for the Identification of Potent Compounds Using Support Vector Machine and Regression Modeling. <i>Journal of Chemical Information and Modeling</i> , 2019 , 59, 983-992 | 6.1 | 6 |
| 173 | Structure- and Similarity-Based Survey of Allosteric Kinase Inhibitors, Activators, and Closely Related Compounds. <i>Journal of Medicinal Chemistry</i> , 2021 , | 8.3 | 6 |
| 172 | Method for Systematic Analogue Search Using the Mega SAR Matrix Database. <i>Journal of Chemical Information and Modeling</i> , 2019 , 59, 3727-3734 | 6.1 | 5 |
| 171 | Computational chemical biology on the rise. <i>Future Medicinal Chemistry</i> , 2019 , 11, 1-3 | 4.1 | 5 |
| 170 | Systematic identification of target set-dependent activity cliffs. <i>Future Science OA</i> , 2019 , 5, FSO363 | 2.7 | 5 |
| 169 | Structural and Activity Profile Relationships Between Drug Scaffolds. <i>AAPS Journal</i> , 2015 , 17, 609-19 | 3.7 | 5 |

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|-----|---|-----|---|
| 168 | Advances in exploring activity cliffs. <i>Journal of Computer-Aided Molecular Design</i> , 2020 , 34, 929-942 | 4.2 | 5 |
| 167 | Combining Similarity Searching and Network Analysis for the Identification of Active Compounds. <i>ACS Omega</i> , 2018 , 3, 3768-3777 | 3.9 | 5 |
| 166 | Redundancy in two major compound databases. <i>Drug Discovery Today</i> , 2018 , 23, 1183-1186 | 8.8 | 5 |
| 165 | Modeling of compound profiling experiments using support vector machines. <i>Chemical Biology and Drug Design</i> , 2014 , 84, 75-85 | 2.9 | 5 |
| 164 | Computational chemistry in pharmaceutical research: at the crossroads. <i>Journal of Computer-Aided Molecular Design</i> , 2012 , 26, 11-2 | 4.2 | 5 |
| 163 | Identification of Interaction Hot Spots in Structures of Drug Targets on the Basis of Three-Dimensional Activity Cliff Information. <i>Chemical Biology and Drug Design</i> , 2015 , 86, 1458-65 | 2.9 | 5 |
| 162 | Structural and Modeling Studies on ecto-5'-nucleotidase Aiding in Inhibitor Design. <i>Mini-Reviews in Medicinal Chemistry</i> , 2015 , 15, 34-40 | 3.2 | 5 |
| 161 | Predicting the similarity search performance of fingerprints and their combination with molecular property descriptors using probabilistic and information theoretic modeling. <i>Statistical Analysis and Data Mining</i> , 2009 , 2, 123-134 | 1.4 | 5 |
| 160 | Computational screening for membrane-directed inhibitors of mast cell activation. <i>European Journal of Medicinal Chemistry</i> , 2010 , 45, 2700-4 | 6.8 | 5 |
| 159 | Exploring peptide-likeness of active molecules using 2D fingerprint methods. <i>Journal of Chemical Information and Modeling</i> , 2007 , 47, 1366-78 | 6.1 | 5 |
| 158 | Matched molecular pair-based data sets for computer-aided medicinal chemistry. <i>F1000Research</i> , 2014 , 3, 36 | 3.6 | 5 |
| 157 | Matched molecular pair-based data sets for computer-aided medicinal chemistry. <i>F1000Research</i> , 2014 , 3, 36 | 3.6 | 5 |
| 156 | Introducing a new category of activity cliffs combining different compound similarity criteria. <i>RSC Medicinal Chemistry</i> , 2020 , 11, 132-141 | 3.5 | 5 |
| 155 | From Qualitative to Quantitative Analysis of Activity and Property Landscapes. <i>Journal of Chemical Information and Modeling</i> , 2020 , 60, 5873-5880 | 6.1 | 5 |
| 154 | Activity landscape image analysis using convolutional neural networks. <i>Journal of Cheminformatics</i> , 2020 , 12, 34 | 8.6 | 5 |
| 153 | Feature importance correlation from machine learning indicates functional relationships between proteins and similar compound binding characteristics. <i>Scientific Reports</i> , 2021 , 11, 14245 | 4.9 | 5 |
| 152 | Prediction of Promiscuity Cliffs Using Machine Learning. <i>Molecular Informatics</i> , 2021 , 40, e2000196 | 3.8 | 5 |
| 151 | Collection of analog series-based scaffolds from public compound sources. <i>Future Science OA</i> , 2018 , 4, FSO287 | 2.7 | 5 |

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|-----|--|-----|---|
| 150 | Evolution of Support Vector Machine and Regression Modeling in Chemoinformatics and Drug Discovery.. <i>Journal of Computer-Aided Molecular Design</i> , 2022 , 1 | 4.2 | 5 |
| 149 | Compound Ranking Based on Fuzzy Three-Dimensional Similarity Improves the Performance of Docking into Homology Models of G-Protein-Coupled Receptors. <i>ACS Omega</i> , 2017 , 2, 2583-2592 | 3.9 | 4 |
| 148 | Tracing compound pathways using chemical space networks. <i>MedChemComm</i> , 2017 , 8, 376-384 | 5 | 4 |
| 147 | Dark chemical matter in public screening assays and derivation of target hypotheses. <i>MedChemComm</i> , 2017 , 8, 2100-2104 | 5 | 4 |
| 146 | From bird's eye views to molecular communities: two-layered visualization of structure-activity relationships in large compound data sets. <i>Journal of Computer-Aided Molecular Design</i> , 2017 , 31, 961-977 | 4.2 | 4 |
| 145 | Systematic Exploration of Activity Cliffs Containing Privileged Substructures. <i>Molecular Pharmaceutics</i> , 2020 , 17, 979-989 | 5.6 | 4 |
| 144 | The SAR Matrix Method and an Artificially Intelligent Variant for the Identification and Structural Organization of Analog Series, SAR Analysis, and Compound Design. <i>Molecular Informatics</i> , 2020 , 39, e2000045 | 3.8 | 4 |
| 143 | From SAR Diagnostics to Compound Design: Development Chronology of the Compound Optimization Monitor (COMO) Method. <i>Molecular Informatics</i> , 2020 , 39, e2000046 | 3.8 | 4 |
| 142 | Exploring differential evolution for inverse QSAR analysis. <i>F1000Research</i> , 2017 , 6, | 3.6 | 4 |
| 141 | Hierarchical Analysis of Bioactive Matched Molecular Pairs, Encoded Chemical Transformations, and Associated Substructures. <i>Molecular Informatics</i> , 2016 , 35, 483-488 | 3.8 | 4 |
| 140 | Systematic assessment of analog relationships between bioactive compounds and promiscuity of analog sets. <i>MedChemComm</i> , 2016 , 7, 230-236 | 5 | 4 |
| 139 | Evaluation of different virtual screening strategies on the basis of compound sets with characteristic core distributions and dissimilarity relationships. <i>Journal of Computer-Aided Molecular Design</i> , 2019 , 33, 729-743 | 4.2 | 4 |
| 138 | Formation of activity cliffs is accompanied by systematic increases in ligand efficiency from lowly to highly potent compounds. <i>AAPS Journal</i> , 2014 , 16, 335-41 | 3.7 | 4 |
| 137 | Activity cliff networks for medicinal chemistry. <i>Drug Development Research</i> , 2014 , 75, 291-8 | 5.1 | 4 |
| 136 | Systematic assessment of scaffold hopping versus activity cliff formation across bioactive compound classes following a molecular hierarchy. <i>Bioorganic and Medicinal Chemistry</i> , 2015 , 23, 3183-91 | 3.4 | 4 |
| 135 | Hit Expansion from Screening Data Based upon Conditional Probabilities of Activity Derived from SAR Matrices. <i>Molecular Informatics</i> , 2015 , 34, 134-46 | 3.8 | 4 |
| 134 | Systematic assessment of scaffold distances in ChEMBL: prioritization of compound data sets for scaffold hopping analysis in virtual screening. <i>Journal of Computer-Aided Molecular Design</i> , 2012 , 26, 1101-9 | 3.9 | 4 |
| 133 | Molecular test systems for computational selectivity studies and systematic analysis of compound selectivity profiles. <i>Methods in Molecular Biology</i> , 2011 , 672, 503-15 | 1.4 | 4 |

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|-----|--|-----|---|
| 132 | Activity profile sequences: a concept to account for the progression of compound activity in target space and to extract SAR information from analogue series with multiple target annotations. <i>ChemMedChem</i> , 2011 , 6, 2150-4 | 3.7 | 4 |
| 131 | Extraction of discontinuous structure-activity relationships from compound data sets through particle swarm optimization. <i>Journal of Chemical Information and Modeling</i> , 2011 , 51, 1545-51 | 6.1 | 4 |
| 130 | Rationalizing the role of SAR tolerance for ligand-based virtual screening. <i>Journal of Chemical Information and Modeling</i> , 2011 , 51, 837-42 | 6.1 | 4 |
| 129 | Design and exploration of target-selective chemical space representations. <i>Journal of Chemical Information and Modeling</i> , 2008 , 48, 1389-95 | 6.1 | 4 |
| 128 | Analysis of a high-throughput screening data set using potency-scaled molecular similarity algorithms. <i>Journal of Chemical Information and Modeling</i> , 2007 , 47, 367-75 | 6.1 | 4 |
| 127 | Distribution of randomly generated activity class characteristic substructures in diverse active and database compounds. <i>Molecular Diversity</i> , 2008 , 12, 77-83 | 3.1 | 4 |
| 126 | Towards a systematic assessment of assay interference: Identification of extensively tested compounds with high assay promiscuity. <i>F1000Research</i> , 2017 , 6, | 3.6 | 4 |
| 125 | Towards a systematic assessment of assay interference: Identification of extensively tested compounds with high assay promiscuity. <i>F1000Research</i> , 2017 , 6, 1505 | 3.6 | 4 |
| 124 | Follow up: Compound data sets and software tools for chemoinformatics and medicinal chemistry applications: update and data transfer. <i>F1000Research</i> , 2014 , 3, 69 | 3.6 | 4 |
| 123 | Analyzing compound activity records and promiscuity degrees in light of publication statistics. <i>F1000Research</i> , 2016 , 5, 1227 | 3.6 | 4 |
| 122 | Exploring sets of molecules from patents and relationships to other active compounds in chemical space networks. <i>Journal of Computer-Aided Molecular Design</i> , 2017 , 31, 779-788 | 4.2 | 4 |
| 121 | Activity cliffs produced by single-atom modification of active compounds: Systematic identification and rationalization based on X-ray structures. <i>European Journal of Medicinal Chemistry</i> , 2020 , 207, 112846 | 6.8 | 4 |
| 120 | DeepCOMO: from structure-activity relationship diagnostics to generative molecular design using the compound optimization monitor methodology. <i>Journal of Computer-Aided Molecular Design</i> , 2020 , 34, 1207-1218 | 4.2 | 4 |
| 119 | Prediction of an MMP-1 inhibitor activity cliff using the SAR matrix approach and its experimental validation. <i>Scientific Reports</i> , 2020 , 10, 14710 | 4.9 | 4 |
| 118 | Compound optimization monitor (COMO) method for computational evaluation of progress in medicinal chemistry projects. <i>Future Drug Discovery</i> , 2019 , 1, FDD15 | 2 | 4 |
| 117 | Predicting Isoform-Selective Carbonic Anhydrase Inhibitors via Machine Learning and Rationalizing Structural Features Important for Selectivity. <i>ACS Omega</i> , 2021 , 6, 4080-4089 | 3.9 | 4 |
| 116 | Compound dataset and custom code for deep generative multi-target compound design. <i>Future Science OA</i> , 2021 , 7, FSO715 | 2.7 | 4 |
| 115 | Systematic analysis of structural and activity relationships between conventional hierarchical and analog series-based scaffolds. <i>RSC Advances</i> , 2017 , 7, 18718-18723 | 3.7 | 3 |

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|-----|---|-----|---|
| 114 | Identifying relationships between unrelated pharmaceutical target proteins on the basis of shared active compounds. <i>Future Science OA</i> , 2017 , 3, FSO212 | 2.7 | 3 |
| 113 | Structural diversity and potency range distribution of scaffolds from compounds active against current pharmaceutical targets. <i>Future Medicinal Chemistry</i> , 2015 , 7, 111-22 | 4.1 | 3 |
| 112 | Integrating computational lead optimization diagnostics with analog design and candidate selection. <i>Future Science OA</i> , 2020 , 6, FSO451 | 2.7 | 3 |
| 111 | Computational method for the identification of third generation activity cliffs. <i>MethodsX</i> , 2020 , 7, 1007939 | 3.9 | 3 |
| 110 | Data structures for compound promiscuity analysis: promiscuity cliffs, pathways and promiscuity hubs formed by inhibitors of the human kinome. <i>Future Science OA</i> , 2019 , 5, FSO404 | 2.7 | 3 |
| 109 | Computational chemical biology: identification of small molecular probes that discriminate between members of target protein families. <i>Chemical Biology and Drug Design</i> , 2012 , 79, 369-75 | 2.9 | 3 |
| 108 | From activity cliffs to promiscuity cliffs. <i>Future Science OA</i> , 2017 , 3, FSO227 | 2.7 | 3 |
| 107 | Active Site Mapping of Human Cathepsin F with Dipeptide Nitrile Inhibitors. <i>ChemMedChem</i> , 2015 , 10, 1365-77 | 3.7 | 3 |
| 106 | Compound optimization through data set-dependent chemical transformations. <i>Journal of Chemical Information and Modeling</i> , 2013 , 53, 1263-71 | 6.1 | 3 |
| 105 | Fragment formal concept analysis accurately classifies compounds with closely related biological activities. <i>ChemMedChem</i> , 2009 , 4, 1174-81 | 3.7 | 3 |
| 104 | Lipid-like sulfoxides and amine oxides as inhibitors of mast cell activation. <i>European Journal of Medicinal Chemistry</i> , 2011 , 46, 2147-51 | 6.8 | 3 |
| 103 | Adaptation of formal concept analysis for the systematic exploration of structure-activity and structure-selectivity relationships. <i>Journal of Cheminformatics</i> , 2010 , 2, | 8.6 | 3 |
| 102 | AnalogExplorer2 - Stereochemistry sensitive graphical analysis of large analog series. <i>F1000Research</i> , 2015 , 4, | 3.6 | 3 |
| 101 | ccbmlib - a Python package for modeling Tanimoto similarity value distributions. <i>F1000Research</i> , 2020 , 9, | 3.6 | 3 |
| 100 | Impact of Artificial Intelligence on Compound Discovery, Design, and Synthesis.. <i>ACS Omega</i> , 2021 , 6, 33293-33299 | 3.9 | 3 |
| 99 | Freely available compound data sets and software tools for chemoinformatics and computational medicinal chemistry applications. <i>F1000Research</i> , 2012 , 1, 11 | 3.6 | 3 |
| 98 | Promiscuity analysis of a kinase panel screen with designated p38 alpha inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2020 , 187, 112004 | 6.8 | 3 |
| 97 | Global Assessment of Substituents on the Basis of Analogue Series. <i>Journal of Medicinal Chemistry</i> , 2020 , 63, 15013-15020 | 8.3 | 3 |

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|----|---|-----|---|
| 96 | Adapting the DeepSARM approach for dual-target ligand design. <i>Journal of Computer-Aided Molecular Design</i> , 2021 , 35, 587-600 | 4.2 | 3 |
| 95 | Computational chemistry and computer-aided drug discovery: Part II. <i>Future Medicinal Chemistry</i> , 2016 , 8, 1799-1800 | 4.1 | 3 |
| 94 | Development of curcumin-based amyloid aggregation inhibitors for Alzheimer's disease using the SAR matrix approach. <i>Bioorganic and Medicinal Chemistry</i> , 2021 , 46, 116357 | 3.4 | 3 |
| 93 | Systematic mapping of R-group space enables the generation of an R-group replacement system for medicinal chemistry. <i>European Journal of Medicinal Chemistry</i> , 2021 , 225, 113771 | 6.8 | 3 |
| 92 | Is scaffold hopping a reliable indicator for the ability of computational methods to identify structurally diverse active compounds?. <i>Journal of Computer-Aided Molecular Design</i> , 2017 , 31, 603-608 | 4.2 | 2 |
| 91 | Design of Diverse and Focused Compound Libraries 2017 , 83-101 | | 2 |
| 90 | Large-Scale Comparison of Alternative Similarity Search Strategies with Varying Chemical Information Contents. <i>ACS Omega</i> , 2019 , 4, 15304-15311 | 3.9 | 2 |
| 89 | Visualization of multi-property landscapes for compound selection and optimization. <i>Journal of Computer-Aided Molecular Design</i> , 2015 , 29, 695-705 | 4.2 | 2 |
| 88 | Increasing the public activity cliff knowledge base with new categories of activity cliffs. <i>Future Science OA</i> , 2020 , 6, FSO472 | 2.7 | 2 |
| 87 | Evaluation of Kinase Inhibitor Selectivity Using Cell-based Profiling Data. <i>Molecular Informatics</i> , 2018 , 37, e1800024 | 3.8 | 2 |
| 86 | Systematic design of analogs of active compounds covering more than 1000 targets. <i>MedChemComm</i> , 2016 , 7, 859-863 | 5 | 2 |
| 85 | A Hybrid Virtual Screening Protocol Based on Binding Mode Similarity. <i>Methods in Molecular Biology</i> , 2018 , 1824, 165-175 | 1.4 | 2 |
| 84 | Forward-looking perspective on publishing in drug discovery. <i>Future Drug Discovery</i> , 2019 , 1, FDD2 | 2 | 2 |
| 83 | Large-scale assessment of activity landscape feature probabilities of bioactive compounds. <i>Journal of Chemical Information and Modeling</i> , 2014 , 54, 442-50 | 6.1 | 2 |
| 82 | Exploring Structural Relationships between Bioactive and Commercial Chemical Space and Developing Target Hypotheses for Compound Acquisition. <i>ACS Omega</i> , 2017 , 2, 7760-7766 | 3.9 | 2 |
| 81 | Identification of orthologous target pairs with shared active compounds and comparison of organism-specific activity patterns. <i>Chemical Biology and Drug Design</i> , 2015 , 86, 1105-14 | 2.9 | 2 |
| 80 | Rationalizing structure and target relationships between current drugs. <i>AAPS Journal</i> , 2012 , 14, 764-71 | 3.7 | 2 |
| 79 | Searching for closely related ligands with different mechanisms of action using machine learning and mapping algorithms. <i>Journal of Chemical Information and Modeling</i> , 2013 , 53, 2252-74 | 6.1 | 2 |

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|----|--|---------|---|
| 78 | Visualization of Activity Landscapes and Chemogenomics Data. <i>Molecular Informatics</i> , 2013 , 32, 954-63 | 3.8 | 2 |
| 77 | Rationalization of the performance and target dependence of similarity searching incorporating protein-ligand interaction information. <i>Journal of Chemical Information and Modeling</i> , 2010 , 50, 1042-52 | 6.1 | 2 |
| 76 | Methods for computer-aided chemical biology. Part 5: rationalizing the selectivity of cathepsin inhibitors on the basis of molecular fragments and topological feature distributions. <i>Chemical Biology and Drug Design</i> , 2009 , 74, 129-41 | 2.9 | 2 |
| 75 | Entering new publication territory in chemoinformatics and chemical information science. <i>F1000Research</i> , 2015 , 4, 35 | 3.6 | 2 |
| 74 | ccbmllib Python package for modeling Tanimoto similarity value distributions. <i>F1000Research</i> , 2020 , 9, 100 | 3.6 | 2 |
| 73 | A Novel Descriptor Histogram Filtering Method for Database Mining and the Identification of Active Molecules. <i>Letters in Drug Design and Discovery</i> , 2007 , 4, 286-292 | 0.8 | 2 |
| 72 | Exploring structure-promiscuity relationships using dual-site promiscuity cliffs and corresponding single-site analogs. <i>Bioorganic and Medicinal Chemistry</i> , 2020 , 28, 115238 | 3.4 | 2 |
| 71 | N-Sulfonyl dipeptide nitriles as inhibitors of human cathepsin S: In silico design, synthesis and biochemical characterization. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2020 , 30, 127420 | 2.9 | 2 |
| 70 | Systematic comparison of competitive and allosteric kinase inhibitors reveals common structural characteristics. <i>European Journal of Medicinal Chemistry</i> , 2021 , 214, 113206 | 6.8 | 2 |
| 69 | Fine-tuning of a generative neural network for designing multi-target compounds. <i>Journal of Computer-Aided Molecular Design</i> , 2021 , 1 | 4.2 | 2 |
| 68 | Structural characteristics of compounds with multitarget activity. <i>Future Drug Discovery</i> , 2021 , 3, FDD602 | | 2 |
| 67 | Evaluation of multi-target deep neural network models for compound potency prediction under increasingly challenging test conditions. <i>Journal of Computer-Aided Molecular Design</i> , 2021 , 35, 285-295 | 4.2 | 2 |
| 66 | SAR Matrix Method for Large-Scale Analysis of Compound Structure-Activity Relationships and Exploration of Multitarget Activity Spaces. <i>Methods in Molecular Biology</i> , 2018 , 1825, 339-352 | 1.4 | 2 |
| 65 | Exploring ensembles of bioactive or virtual analogs of X-ray ligands for shape similarity searching. <i>Journal of Computer-Aided Molecular Design</i> , 2018 , 32, 759-767 | 4.2 | 2 |
| 64 | CHEMOMETRIC APPLICATIONS OF NAÏVE BAYESIAN MODELS IN DRUG DISCOVERY | 131-148 | 2 |
| 63 | Explainable Machine Learning for Property Predictions in Compound Optimization.. <i>Journal of Medicinal Chemistry</i> , 2021 , 64, 17744-17752 | 8.3 | 2 |
| 62 | Exploration of Target Synergy in Cancer Treatment by Cell-Based Screening Assay and Network Propagation Analysis. <i>Journal of Chemical Information and Modeling</i> , 2019 , 59, 3072-3079 | 6.1 | 1 |
| 61 | Simplified activity cliff network representations with high interpretability and immediate access to SAR information. <i>Journal of Computer-Aided Molecular Design</i> , 2020 , 34, 943-952 | 4.2 | 1 |

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|----|--|-----|---|
| 60 | Biological Activity Profiles of Multitarget Ligands from X-ray Structures. <i>Molecules</i> , 2020 , 25, | 4.8 | 1 |
| 59 | Computational Method for Structure-Based Analysis of SAR Transfer. <i>Journal of Medicinal Chemistry</i> , 2020 , 63, 1388-1396 | 8.3 | 1 |
| 58 | Identification of 4-aryl-1H-pyrrole[2,3-b]pyridine derivatives for the development of new B-Raf inhibitors. <i>Chemical Biology and Drug Design</i> , 2018 , 92, 1382-1386 | 2.9 | 1 |
| 57 | Series of screening compounds with high hit rates for the exploration of multi-target activities and assay interference. <i>Future Science OA</i> , 2018 , 4, FSO279 | 2.7 | 1 |
| 56 | Exploring Molecular Promiscuity from a Ligand and Target Perspective. <i>ACS Symposium Series</i> , 2016 , 19-34 | 0.4 | 1 |
| 55 | Design of multi-target activity landscapes that capture hierarchical activity cliff distributions. <i>Journal of Cheminformatics</i> , 2012 , 4, | 8.6 | 1 |
| 54 | Molecular crime scene investigation - dusting for fingerprints. <i>Drug Discovery Today: Technologies</i> , 2013 , 10, e491-8 | 7.1 | 1 |
| 53 | Method for Systematic Assessment of Chemical Changes in Molecular Scaffolds with Conserved Topology and Application to the Analysis of Scaffold-Activity Relationships. <i>Molecular Informatics</i> , 2015 , 34, 531-49 | 3.8 | 1 |
| 52 | Design of an activity landscape view taking compound-based feature probabilities into account. <i>Journal of Computer-Aided Molecular Design</i> , 2014 , 28, 919-26 | 4.2 | 1 |
| 51 | Potency-directed similarity searching using support vector machines. <i>Journal of Cheminformatics</i> , 2012 , 4, | 8.6 | 1 |
| 50 | Structure-Activity Relationship Data Analysis: Activity Landscapes and Activity Cliffs 2013 , 507-531 | | 1 |
| 49 | Inhibitors of cathepsins K and S identified using the DynaMAD virtual screening algorithm. <i>ChemMedChem</i> , 2010 , 5, 61-4 | 3.7 | 1 |
| 48 | Iterative Shannon Entropy - a Methodology to Quantify the Information Content of Value Range Dependent Data Distributions. Application to Descriptor and Compound Selectivity Profiling. <i>Molecular Informatics</i> , 2010 , 29, 432-40 | 3.8 | 1 |
| 47 | Design of chemical space networks incorporating compound distance relationships. <i>F1000Research</i> , 2016 , 5, | 3.6 | 1 |
| 46 | On data sharing in computational drug discovery and the need for data notes. <i>F1000Research</i> , 2014 , 3, 280 | 3.6 | 1 |
| 45 | On the evolving open peer review culture for chemical information science. <i>F1000Research</i> , 2015 , 4, | 3.6 | 1 |
| 44 | Explainable machine learning predictions of dual-target compounds reveal characteristic structural features. <i>Scientific Reports</i> , 2021 , 11, 21594 | 4.9 | 1 |
| 43 | Quantitative Comparison of Three-Dimensional Activity Landscapes of Compound Data Sets Based upon Topological Features. <i>ACS Omega</i> , 2020 , 5, 24111-24117 | 3.9 | 1 |

| | | | |
|----|--|---------|---|
| 42 | Identifying representative kinases for inhibitor evaluation via systematic analysis of compound-based target relationships. <i>European Journal of Medicinal Chemistry</i> , 2020 , 204, 112641 | 6.8 | 1 |
| 41 | Kinase inhibitor data set for systematic analysis of representative kinases across the human kinome. <i>Data in Brief</i> , 2020 , 32, 106189 | 1.2 | 1 |
| 40 | Computational Method for Quantitative Comparison of Activity Landscapes on the Basis of Image Data. <i>Molecules</i> , 2020 , 25, | 4.8 | 1 |
| 39 | Prediction of activity cliffs on the basis of images using convolutional neural networks. <i>Journal of Computer-Aided Molecular Design</i> , 2021 , 35, 1157-1164 | 4.2 | 1 |
| 38 | Data set of competitive and allosteric protein kinase inhibitors confirmed by X-ray crystallography. <i>Data in Brief</i> , 2021 , 35, 106816 | 1.2 | 1 |
| 37 | Structured data sets of compounds with multi-target and corresponding single-target activity from biological assays. <i>Future Science OA</i> , 2021 , 7, FSO685 | 2.7 | 1 |
| 36 | Systematic assessment of structure-promiscuity relationships between different types of kinase inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2021 , 41, 116226 | 3.4 | 1 |
| 35 | Network Variants for Analyzing Target-Ligand Interactions. <i>ACS Symposium Series</i> , 2016 , 35-51 | 0.4 | 1 |
| 34 | Computational chemistry and computer-aided drug discovery: part 1. <i>Future Medicinal Chemistry</i> , 2016 , 8, 1705-6 | 4.1 | 1 |
| 33 | Introducing the metacore concept for multi-target ligand design. <i>RSC Medicinal Chemistry</i> , 2021 , 12, 628-635 | 3.5 | 1 |
| 32 | Mapping Biological Activities to Different Types of Molecular Scaffolds: Exemplary Application to Protein Kinase Inhibitors. <i>Methods in Molecular Biology</i> , 2018 , 1825, 327-337 | 1.4 | 1 |
| 31 | R-group replacement database for medicinal chemistry. <i>Future Science OA</i> , 2021 , 7, FSO742 | 2.7 | 1 |
| 30 | Data Mining Approaches for Compound Selection and Iterative Screening | 113-143 | 1 |
| 29 | STABILITY IN MOLECULAR FINGERPRINT COMPARISON | 97-112 | 1 |
| 28 | Scaffold Mining of Publicly Available Compound Data. <i>Methods and Principles in Medicinal Chemistry</i> , 2013 , 61-82 | 0.4 | 0 |
| 27 | Learning Functional Group Chemistry from Molecular Images Leads to Accurate Prediction of Activity Cliffs. <i>Artificial Intelligence in the Life Sciences</i> , 2021 , 100022 | | 0 |
| 26 | Comprehensive knowledge base of two- and three-dimensional activity cliffs for medicinal and computational chemistry. <i>F1000Research</i> , 4 , 168 | 3.6 | 0 |
| 25 | Design of chemical space networks incorporating compound distance relationships. <i>F1000Research</i> , 2016 , 5, 2634 | 3.6 | 0 |

| | | | |
|----|---|-----|---|
| 24 | Chemistry-Centric Explanation of Machine Learning Models. <i>Artificial Intelligence in the Life Sciences</i> , 2021 , 1, 100009 | | o |
| 23 | Artificial intelligence in interdisciplinary life science and drug discovery research.. <i>Future Science OA</i> , 2022 , 8, FSO792 | 2.7 | o |
| 22 | DeepAS - Chemical language model for the extension of active analogue series.. <i>Bioorganic and Medicinal Chemistry</i> , 2022 , 66, 116808 | 3.4 | o |
| 21 | Algorithmic Chemoinformatics 2017 , 393-448 | | |
| 20 | Virtual Screening for Dual Hsp90/B-Raf Inhibitors. <i>Methods in Pharmacology and Toxicology</i> , 2017 , 355-365 | | |
| 19 | Determination of Meta-Parameters for Support Vector Machine Linear Combinations. <i>Molecular Informatics</i> , 2015 , 34, 127-33 | 3.8 | |
| 18 | Compound Structure-Independent Activity Prediction in High-Dimensional Target Space. <i>Molecular Informatics</i> , 2014 , 33, 544-58 | 3.8 | |
| 17 | Statistical Methods for Predicting Compound Recovery Rates for Ligand-Based Virtual Screening and Assessing the Probability of Activity 2012 , 229-243 | | |
| 16 | Virtual Screening Methods 2013 , 483-505 | | |
| 15 | EXPLORATION OF STRUCTUREACTIVITY RELATIONSHIPS (SARs) AND TRANSFER OF KEY ELEMENTS IN LEAD OPTIMIZATION 2013 , 205-243 | | |
| 14 | APPLICATIONS OF CHEMINFORMATICS IN PHARMACEUTICAL RESEARCH 2013 , 291-320 | | |
| 13 | Inside Cover: From StructureActivity to StructureSelectivity Relationships: Quantitative Assessment, Selectivity Cliffs, and Key Compounds (ChemMedChem 11/2009). <i>ChemMedChem</i> , 2009 , 4, 1766-1766 | 3.7 | |
| 12 | In Silico Screening 2010 , 73-103 | | |
| 11 | Potency-scaled partitioning in descriptor spaces with increasing dimensionality. <i>Current Topics in Medicinal Chemistry</i> , 2005 , 5, 797-803 | 3 | |
| 10 | AI in Life Science Research The Road Ahead. <i>Artificial Intelligence in the Life Sciences</i> , 2022 , 2, 100030 | | |
| 9 | Iterative DeepSARM Modeling for Compound Optimization. <i>Artificial Intelligence in the Life Sciences</i> , 2021 , 100015 | | |
| 8 | Second-generation artificial intelligence approaches for life science research. <i>Artificial Intelligence in the Life Sciences</i> , 2021 , 1, 100026 | | |
| 7 | Searchable database of frequent R-groups in medicinal chemistry and their preferred replacements. <i>Data in Brief</i> , 2021 , 39, 107456 | 1.2 | |

- 6 [Special Issue for Honor Award dedicating to Prof Kimito Funatsu]Exploring Polypharmacology and Molecular Promiscuity. *Journal of Computer Aided Chemistry*, **2019**, 20, 43-46 0.2
- 5 CRITICAL ASSESSMENT OF VIRTUAL SCREENING FOR HIT IDENTIFICATION113-130
- 4 Data set of activity cliffs with single-atom modification and associated X-ray structure information for medicinal and computational chemistry applications. *Data in Brief*, **2020**, 33, 106364 1.2
- 3 Complexity and Heterogeneity of Data for Chemical Information Science. *ACS Symposium Series*, **2016**, 9-17 0.4
- 2 Understanding uncertainty in deep learning builds confidence. *Artificial Intelligence in the Life Sciences*, **2022**, 2, 100033
- 1 Deep learning of protein-ligand interactionsRemembering the actors. *Artificial Intelligence in the Life Sciences*, **2022**, 2, 100037