

# Peter Ertl

## List of Publications by Citations

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86  
papers

6,750  
citations

28  
h-index

82  
g-index

100  
ext. papers

7,729  
ext. citations

5  
avg, IF

6.04  
L-index

#	Paper	IF	Citations
86	Fast calculation of molecular polar surface area as a sum of fragment-based contributions and its application to the prediction of drug transport properties. <i>Journal of Medicinal Chemistry</i> , <b>2000</b> , 43, 3714-7	8.7	1960
85	Virtual computational chemistry laboratory--design and description. <i>Journal of Computer-Aided Molecular Design</i> , <b>2005</b> , 19, 453-63	4.2	1061
84	Charting biologically relevant chemical space: a structural classification of natural products (SCONP). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 17272-7	11.5	489
83	Estimation of synthetic accessibility score of drug-like molecules based on molecular complexity and fragment contributions. <i>Journal of Cheminformatics</i> , <b>2009</b> , 1, 8	8.6	370
82	Online chemical modeling environment (OCHEM): web platform for data storage, model development and publishing of chemical information. <i>Journal of Computer-Aided Molecular Design</i> , <b>2011</b> , 25, 533-54	4.2	311
81	The scaffold tree--visualization of the scaffold universe by hierarchical scaffold classification. <i>Journal of Chemical Information and Modeling</i> , <b>2007</b> , 47, 47-58	6.1	288
80	Cheminformatics analysis of organic substituents: identification of the most common substituents, calculation of substituent properties, and automatic identification of drug-like bioisosteric groups. <i>Journal of Chemical Information and Computer Sciences</i> , <b>2003</b> , 43, 374-80		212
79	Natural product-likeness score and its application for prioritization of compound libraries. <i>Journal of Chemical Information and Modeling</i> , <b>2008</b> , 48, 68-74	6.1	205
78	Quest for the rings. In silico exploration of ring universe to identify novel bioactive heteroaromatic scaffolds. <i>Journal of Medicinal Chemistry</i> , <b>2006</b> , 49, 4568-73	8.3	198
77	JSME: a free molecule editor in JavaScript. <i>Journal of Cheminformatics</i> , <b>2013</b> , 5, 24	8.6	149
76	Bioisosteric Replacement and Scaffold Hopping in Lead Generation and Optimization. <i>Molecular Informatics</i> , <b>2010</b> , 29, 366-85	3.8	129
75	The graphical representation of ADME-related molecule properties for medicinal chemists. <i>Drug Discovery Today</i> , <b>2011</b> , 16, 65-72	8.8	94
74	Cheminformatic Analysis of Natural Products and their Chemical Space. <i>Chimia</i> , <b>2007</b> , 61, 355-360	1.3	93
73	Molecular structure input on the web. <i>Journal of Cheminformatics</i> , <b>2010</b> , 2, 1	8.6	83
72	Estimation of pKa for druglike compounds using semiempirical and information-based descriptors. <i>Journal of Chemical Information and Modeling</i> , <b>2007</b> , 47, 450-9	6.1	59
71	Concepts of sterically hindered resonance and buttressing effect: gas-phase acidities of methyl-substituted benzoic acids and basicities of their methyl esters. <i>Journal of the American Chemical Society</i> , <b>1993</b> , 115, 12071-12078	16.4	49
70	A Systematic Cheminformatics Analysis of Functional Groups Occurring in Natural Products. <i>Journal of Natural Products</i> , <b>2019</b> , 82, 1258-1263	4.9	48

69	Natural product-likeness score revisited: an open-source, open-data implementation. <i>BMC Bioinformatics</i> , <b>2012</b> , 13, 106	3.6	48
68	The Most Common Functional Groups in Bioactive Molecules and How Their Popularity Has Evolved over Time. <i>Journal of Medicinal Chemistry</i> , <b>2020</b> , 63, 8408-8418	8.3	47
67	Clustering and rule-based classifications of chemical structures evaluated in the biological activity space. <i>Journal of Chemical Information and Modeling</i> , <b>2007</b> , 47, 325-36	6.1	44
66	Compound set enrichment: a novel approach to analysis of primary HTS data. <i>Journal of Chemical Information and Modeling</i> , <b>2010</b> , 50, 2067-78	6.1	43
65	An algorithm to identify functional groups in organic molecules. <i>Journal of Cheminformatics</i> , <b>2017</b> , 9, 36	8.6	41
64	Simple Quantum Chemical Parameters as an Alternative to the Hammett Sigma Constants in QSAR Studies. <i>QSAR and Combinatorial Science</i> , <b>1997</b> , 16, 377-382		38
63	Intuitive ordering of scaffolds and scaffold similarity searching using scaffold keys. <i>Journal of Chemical Information and Modeling</i> , <b>2014</b> , 54, 1617-22	6.1	36
62	WWW-based chemical information system. <i>Computational and Theoretical Chemistry</i> , <b>1997</b> , 419, 113-120		31
61	Construction of a 3D-shaped, natural product like fragment library by fragmentation and diversification of natural products. <i>Bioorganic and Medicinal Chemistry</i> , <b>2017</b> , 25, 921-925	3.4	30
60	Applications of self-organizing neural networks in virtual screening and diversity selection. <i>Journal of Chemical Information and Modeling</i> , <b>2006</b> , 46, 2319-23	6.1	30
59	The Molecule Cloud - compact visualization of large collections of molecules. <i>Journal of Cheminformatics</i> , <b>2012</b> , 4, 12	8.6	28
58	Polar Surface Area. <i>Methods and Principles in Medicinal Chemistry</i> , <b>2007</b> , 111-126	0.4	25
57	Wikipedia Chemical Structure Explorer: substructure and similarity searching of molecules from Wikipedia. <i>Journal of Cheminformatics</i> , <b>2015</b> , 7, 10	8.6	24
56	World Wide Web-based system for the calculation of substituent parameters and substituent similarity searches. <i>Journal of Molecular Graphics and Modelling</i> , <b>1998</b> , 16, 11-3, 36	2.8	24
55	Cheminformatics analysis of natural products: lessons from nature inspiring the design of new drugs. <i>Progress in Drug Research Fortschritte Der Arzneimittelforschung Progres Des Recherches Pharmaceutiques</i> , <b>2008</b> , 66, 217, 219-35		22
54	Designing drugs on the internet? Free web tools and services supporting medicinal chemistry. <i>Current Topics in Medicinal Chemistry</i> , <b>2007</b> , 7, 1491-501	3	22
53	Synthesis of Ferrocenyl-Substituted Heterocycles: The Beneficial Effect of the Microwave Irradiation. <i>Collection of Czechoslovak Chemical Communications</i> , <b>1994</b> , 59, 175-185		22
52	Web-based cheminformatics tools deployed via corporate Intranets. <i>Drug Discovery Today Biosilico</i> , <b>2004</b> , 2, 201-207		21

51	MNDO CI study of vertical excitation energies. <i>Computational and Theoretical Chemistry</i> , <b>1988</b> , 165, 1-8		19
50	The scaffold tree: an efficient navigation in the scaffold universe. <i>Methods in Molecular Biology</i> , <b>2011</b> , 672, 245-60	1.4	18
49	IADE: a system for intelligent automatic design of bioisosteric analogs. <i>Journal of Computer-Aided Molecular Design</i> , <b>2012</b> , 26, 1207-15	4.2	16
48	Preparation and stereoselectivity of 1,3-dipolar cycloaddition of C-glycosyl nitrones to N-arylmaleimides. <i>Monatshefte für Chemie</i> , <b>1992</b> , 123, 999-1013	1.4	16
47	Database of bioactive ring systems with calculated properties and its use in bioisosteric design and scaffold hopping. <i>Bioorganic and Medicinal Chemistry</i> , <b>2012</b> , 20, 5436-42	3-4	15
46	Chiral Cliffs: Investigating the Influence of Chirality on Binding Affinity. <i>ChemMedChem</i> , <b>2018</b> , 13, 1315-1324	3-4	14
45	Computational analysis of structure-activity relationships. <i>Progress in Medicinal Chemistry</i> , <b>2010</b> , 49, 113-69		14
44	Identification and Classification of GPCR Ligands Using Self-Organizing Neural Networks. <i>QSAR and Combinatorial Science</i> , <b>2005</b> , 24, 270-276		14
43	Stereoselectivity of 1,3-Dipolar Cycloadditions of d-Erythrose and d-Threose Derived Nitrones with Methyl Acrylate. <i>Synlett</i> , <b>2001</b> , 2001, 1862-1865	2.2	14
42	Regioselectivity in the 1,3-dipolar cycloaddition of nitrile oxides to 3,3-methylene-5,5-dimethyl-2-pyrrolidinone. <i>Monatshefte für Chemie</i> , <b>1991</b> , 122, 821-828	1.4	13
41	Regio- and stereo-selective synthesis of carbohydrate isoxazolidines by 1,3-dipolar cycloaddition of nitrones to 5,6-dideoxy-1,2-O-isopropylidene- $\alpha$ -D-xylo-hex-5-enofuranose. <i>Carbohydrate Research</i> , <b>1992</b> , 226, 49-56	2.9	13
40	Regio- and stereoselectivity in the 1,3-dipolar cycloaddition of C,N-diarylnitrones to 3,3-methylene-5,5-dimethyl-2-pyrrolidinone. <i>Monatshefte für Chemie</i> , <b>1991</b> , 122, 977-985	1.4	12
39	C <sub>2</sub> H <sub>4</sub> B <sub>2</sub> N <sub>2</sub> : a prediction of ring and chain [boron-nitrogen-carbon] compounds. <i>Journal of the American Chemical Society</i> , <b>1992</b> , 114, 10955-10956	16.4	12
38	Diastereomeric ecdysteroids with a cyclic hemiacetal in the side chain produced by cytochrome P450 in hormonally resistant insect cells. <i>Archives of Biochemistry and Biophysics</i> , <b>2002</b> , 400, 180-7	4.1	11
37	Natural product drug delivery: A special challenge?. <i>Progress in Medicinal Chemistry</i> , <b>2019</b> , 58, 157-187	7.3	10
36	Synthesis of Spiroisoxazolines by 1,3-Dipolar Cycloaddition. <i>Molecules</i> , <b>1997</b> , 2, 57-61	4.8	9
35	NP Navigator: A New Look at the Natural Product Chemical Space. <i>Molecular Informatics</i> , <b>2021</b> , 40, e2100068		9
34	Cheminformatics Analysis of Natural Product Scaffolds: Comparison of Scaffolds Produced by Animals, Plants, Fungi and Bacteria. <i>Molecular Informatics</i> , <b>2020</b> , 39, e2000017	3.8	8

33	Regio- and Stereoselective Reduction of 3,5-Disubstituted 3a,6a-Dihydro-4H-pyrrolo[3,4-d]isoxazole-4,6(5H)-diones with Sodium Borohydride. <i>Liebigs Annalen Der Chemie</i> , <b>1993</b> , 1993, 1047-1050		8
32	MNDO and AM1 study of molecular geometries in excited states. <i>Collection of Czechoslovak Chemical Communications</i> , <b>1990</b> , 55, 1399-1403		7
31	Structure-Based and Property-Driven Optimization of -Aryl Imidazoles toward Potent and Selective Oral ROR $\beta$ Inhibitors. <i>Journal of Medicinal Chemistry</i> , <b>2019</b> , 62, 10816-10832	8.3	6
30	Electron distribution on an intramolecular hydrogen bond: A semiempirical AM1 study. <i>Structural Chemistry</i> , <b>1992</b> , 3, 301-305	1.8	6
29	In silico identification of bioisosteric functional groups. <i>Current Opinion in Drug Discovery &amp; Development</i> , <b>2007</b> , 10, 281-8		6
28	Craig plot 2.0: an interactive navigation in the substituent bioisosteric space. <i>Journal of Cheminformatics</i> , <b>2020</b> , 12, 8	8.6	5
27	Energies of excited states calculated with MNDO and AM1. <i>Monatshefte Für Chemie</i> , <b>1991</b> , 122, 1015-1018.	1.4	5
26	Unique macrocycles in the Taiwan traditional Chinese medicine database. <i>Planta Medica</i> , <b>2015</b> , 81, 459-66.	1.1	4
25	Evaluation of a semi-automated workflow for fragment growing. <i>Journal of Chemical Information and Modeling</i> , <b>2015</b> , 55, 180-93	6.1	4
24	Complexation of phthalides and substituted 3-benzylidene phthalides with Cr(CO) <sub>6</sub> . <i>Journal of Organometallic Chemistry</i> , <b>1994</b> , 464, 65-69	2.3	4
23	MNDO CI study of the photoisomerization about polar double bonds. <i>International Journal of Quantum Chemistry</i> , <b>1990</b> , 38, 231-238	2.1	4
22	MNDO study of the E-Z isomerization mechanism of H <sub>2</sub> C=NR molecules (R = H, CH <sub>3</sub> , NH <sub>2</sub> , OH, F). <i>Collection of Czechoslovak Chemical Communications</i> , <b>1988</b> , 53, 2986-2994		4
21	Calculation of energies of excited states with MNDO CI method. <i>Collection of Czechoslovak Chemical Communications</i> , <b>1989</b> , 54, 1433-1436		4
20	Gazing into the crystal ball; the future of computer-aided drug design. <i>Journal of Computer-Aided Molecular Design</i> , <b>2012</b> , 26, 77-9	4.2	3
19	Synthesis of 8-substituted 5H,9H-6-oxa-7-aza-benzocyclononene-10,11-dione-11-O-methyloximes, a new [1,2]-oxazonine ring system. <i>Tetrahedron Letters</i> , <b>2000</b> , 41, 1381-1384	2	3
18	A quantum-chemical study of structure of H <sub>3</sub> O <sup>+</sup> in electronically excited states. <i>Collection of Czechoslovak Chemical Communications</i> , <b>1986</b> , 51, 738-745		3
17	Computational Chemistry at Novartis. <i>Chimia</i> , <b>2005</b> , 59, 545-549	1.3	3
16	Identification of Bioisosteric Substituents by a Deep Neural Network. <i>Journal of Chemical Information and Modeling</i> , <b>2020</b> , 60, 3369-3375	6.1	2

15	Visualization of chemical space for medicinal chemists. <i>Journal of Cheminformatics</i> , <b>2014</b> , 6, O4	8.6	2
14	Cheminformatics Analysis of Organic Substituents: Identification of the Most Common Substituents, Calculation of Substituent Properties, and Automatic Identification of Drug-Like Bioisosteric Groups.. <i>ChemInform</i> , <b>2003</b> , 34, no		2
13	Toxizitätsvorhersage im Intranet. <i>Nachrichten Aus Der Chemie</i> , <b>2004</b> , 52, 162-164	0.1	2
12	Influence of solvent polarity on the dual fluorescence of p-N,N-dimethylaminobenzonitrile: An AM1 theoretical study. <i>Collection of Czechoslovak Chemical Communications</i> , <b>1990</b> , 55, 1891-1895		2
11	MNDO CI study of the photoisomerization of pentadieniminium. <i>Collection of Czechoslovak Chemical Communications</i> , <b>1990</b> , 55, 2874-2879		2
10	Magic Rings: Navigation in the Ring Chemical Space Guided by the Bioactive Rings. <i>Journal of Chemical Information and Modeling</i> , <b>2021</b> ,	6.1	2
9	5,5- and 5,6-Membered Spirocyclic Indolinone Hit-Finding Libraries. <i>ACS Combinatorial Science</i> , <b>2019</b> , 21, 528-536	3.9	1
8	Physicochemical Properties <b>2012</b> , 129-139		1
7	Cheminformatics Analysis of Natural Product Scaffolds: Comparison of Scaffolds Produced by Animals, Plants, Fungi and Bacteria		1
6	Reducing the Concepts of Data Science and Machine Learning to Tools for the Bench Chemist. <i>Chimia</i> , <b>2019</b> , 73, 1001-1005	1.3	1
5	Web-Based Calculation of Molecular Properties 1336-1348		1
4	Substituents of life: The most common substituent patterns present in natural products.. <i>Bioorganic and Medicinal Chemistry</i> , <b>2021</b> , 54, 116562	3.4	0
3	CAVIAR: a method for automatic cavity detection, description and decomposition into subcavities. <i>Journal of Computer-Aided Molecular Design</i> , <b>2021</b> , 35, 737-750	4.2	0
2	Ring replacement recommender: Ring modifications for improving biological activity. <i>European Journal of Medicinal Chemistry</i> , <b>2022</b> , 238, 114483	6.8	0
1	World Wide Web-Based Calculation of Substituent Parameters for QSAR Studies <b>2000</b> , 267-268		