

Christoph C Steinbeck

List of Publications by Year in Descending Order

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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.

146
papers

8,173
citations

47
h-index

88
g-index

188
ext. papers

9,972
ext. citations

8.6
avg, IF

6.07
L-index

#	Paper	IF	Citations
146	Draft genome assembly and sequencing dataset of the marine diatom cf. RCC75.. <i>Data in Brief</i> , 2022 , 41, 107931	1.2	0
145	Surge: a fast open-source chemical graph generator.. <i>Journal of Cheminformatics</i> , 2022 , 14, 24	8.6	0
144	A Catalog of Natural Products Occurring in Watermelon-. <i>Frontiers in Nutrition</i> , 2021 , 8, 729822	6.2	3
143	Metabolomics: The Stethoscope for the Twenty-First Century. <i>Medical Principles and Practice</i> , 2021 , 30, 301-310	2.1	17
142	Description and Analysis of Glycosidic Residues in the Largest Open Natural Products Database. <i>Biomolecules</i> , 2021 , 11,	5.9	1
141	DECIMER-Segmentation: Automated extraction of chemical structure depictions from scientific literature. <i>Journal of Cheminformatics</i> , 2021 , 13, 20	8.6	1
140	STOUT: SMILES to IUPAC names using neural machine translation. <i>Journal of Cheminformatics</i> , 2021 , 13, 34	8.6	6
139	COCONUT online: Collection of Open Natural Products database. <i>Journal of Cheminformatics</i> , 2021 , 13, 2	8.6	64
138	Molecule Set Comparator (MSC): a CDK-based open rich-client tool for molecule set similarity evaluations. <i>Journal of Cheminformatics</i> , 2021 , 13, 5	8.6	0
137	MAYGEN: an open-source chemical structure generator for constitutional isomers based on the orderly generation principle. <i>Journal of Cheminformatics</i> , 2021 , 13, 48	8.6	2
136	DECIMER 1.0: deep learning for chemical image recognition using transformers. <i>Journal of Cheminformatics</i> , 2021 , 13, 61	8.6	3
135	ISA API: An open platform for interoperable life science experimental metadata. <i>GigaScience</i> , 2021 , 10,	7.6	2
134	Chemical graph generators. <i>PLoS Computational Biology</i> , 2021 , 17, e1008504	5	2
133	Gene Cluster Activation in a Bacterial Symbiont Leads to Halogenated Angucyclic Maduralactomycins and Spirocyclic Actinospirols. <i>Organic Letters</i> , 2020 , 22, 2634-2638	6.2	4
132	Review on natural products databases: where to find data in 2020. <i>Journal of Cheminformatics</i> , 2020 , 12, 20	8.6	121
131	A review of optical chemical structure recognition tools. <i>Journal of Cheminformatics</i> , 2020 , 12, 60	8.6	9
130	Meet the Editors-in-Chief. <i>Analytical Science Advances</i> , 2020 , 1, 4	1.1	0

129	Too sweet: cheminformatics for deglycosylation in natural products. <i>Journal of Cheminformatics</i> , 2020 , 12, 67	8.6	11
128	DECIMER: towards deep learning for chemical image recognition. <i>Journal of Cheminformatics</i> , 2020 , 12, 65	8.6	12
127	NaPLoS: a natural products likeness scorer-web application and database. <i>Journal of Cheminformatics</i> , 2019 , 11, 55	8.6	17
126	ErtlFunctionalGroupsFinder: automated rule-based functional group detection with the Chemistry Development Kit (CDK). <i>Journal of Cheminformatics</i> , 2019 , 11, 37	8.6	5
125	Interoperable and scalable data analysis with microservices: applications in metabolomics. <i>Bioinformatics</i> , 2019 , 35, 3752-3760	7.2	15
124	The value of universally available raw NMR data for transparency, reproducibility, and integrity in natural product research. <i>Natural Product Reports</i> , 2019 , 36, 35-107	15.1	63
123	Automated structure prediction of trans-acyltransferase polyketide synthase products. <i>Nature Chemical Biology</i> , 2019 , 15, 813-821	11.7	49
122	PhenoMeNal: processing and analysis of metabolomics data in the cloud. <i>GigaScience</i> , 2019 , 8,	7.6	41
121	A lost opportunity for science: journals promote data sharing in metabolomics but do not enforce it. <i>Metabolomics</i> , 2018 , 14, 16	4.7	13
120	In vivo and in vitro identification of Z-BOX C - a new bilirubin oxidation end product. <i>Organic and Biomolecular Chemistry</i> , 2018 , 16, 3553-3555	3.9	11
119	NMReDATA, a standard to report the NMR assignment and parameters of organic compounds. <i>Magnetic Resonance in Chemistry</i> , 2018 , 56, 703-715	2.1	43
118	nmrML: A Community Supported Open Data Standard for the Description, Storage, and Exchange of NMR Data. <i>Analytical Chemistry</i> , 2018 , 90, 649-656	7.8	37
117	Current Challenges in Plant Eco-Metabolomics. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	63
116	Expanding the Rubterolone Family: Intrinsic Reactivity and Directed Diversification of PKS-derived Pyrans. <i>Chemistry - A European Journal</i> , 2018 , 24, 11319-11324	4.8	7
115	Computational tools and workflows in metabolomics: An international survey highlights the opportunity for harmonisation through Galaxy. <i>Metabolomics</i> , 2017 , 13, 12	4.7	52
114	Ontologies in Chemoinformatics 2017 , 2163-2181		
113	Global open data management in metabolomics. <i>Current Opinion in Chemical Biology</i> , 2017 , 36, 58-63	9.7	26
112	mzML2ISA & nmrML2ISA: generating enriched ISA-Tab metadata files from metabolomics XML data. <i>Bioinformatics</i> , 2017 , 33, 2598-2600	7.2	9

111	Discovering and linking public omics data sets using the Omics Discovery Index. <i>Nature Biotechnology</i> , 2017 , 35, 406-409	44.5	105
110	Automated assembly of species metabolomes through data submission into a public repository. <i>GigaScience</i> , 2017 , 6, 1-4	7.6	8
109	Navigating freely-available software tools for metabolomics analysis. <i>Metabolomics</i> , 2017 , 13, 106	4.7	131
108	Compliance with minimum information guidelines in public metabolomics repositories. <i>Scientific Data</i> , 2017 , 4, 170137	8.2	43
107	The Chemistry Development Kit (CDK) v2.0: atom typing, depiction, molecular formulas, and substructure searching. <i>Journal of Cheminformatics</i> , 2017 , 9, 33	8.6	167
106	A decade after the metabolomics standards initiative it's time for a revision. <i>Scientific Data</i> , 2017 , 4, 170138	8.3	45
105	The future of metabolomics in ELIXIR. <i>F1000Research</i> , 2017 , 6,	3.6	18
104	The future of metabolomics in ELIXIR. <i>F1000Research</i> , 2017 , 6, 1649	3.6	10
103	ClassyFire: automated chemical classification with a comprehensive, computable taxonomy. <i>Journal of Cheminformatics</i> , 2016 , 8, 61	8.6	327
102	SPLASH, a hashed identifier for mass spectra. <i>Nature Biotechnology</i> , 2016 , 34, 1099-1101	44.5	48
101	libChEBI: an API for accessing the ChEBI database. <i>Journal of Cheminformatics</i> , 2016 , 8, 11	8.6	15
100	MetaboLights: An Open-Access Database Repository for Metabolomics Data. <i>Current Protocols in Bioinformatics</i> , 2016 , 53, 14.13.1-14.13.18	24.2	111
99	Data standards can boost metabolomics research, and if there is a will, there is a way. <i>Metabolomics</i> , 2016 , 12, 14	4.7	85
98	From Databases to Big Data 2016 , 317-331		4
97	ChEBI in 2016: Improved services and an expanding collection of metabolites. <i>Nucleic Acids Research</i> , 2016 , 44, D1214-9	20.1	399
96	Recommendations and Standardization of Biomarker Quantification Using NMR-Based Metabolomics with Particular Focus on Urinary Analysis. <i>Journal of Proteome Research</i> , 2016 , 15, 360-73	5.6	94
95	Ontologies in Cheminformatics 2016 , 1-19		
94	The Time Is Right to Focus on Model Organism Metabolomes. <i>Metabolites</i> , 2016 , 6,	5.6	43

93	Reaction Decoder Tool (RDT): extracting features from chemical reactions. <i>Bioinformatics</i> , 2016 , 32, 2065-6	4.8	48
92	BiNChE: a web tool and library for chemical enrichment analysis based on the ChEBI ontology. <i>BMC Bioinformatics</i> , 2015 , 16, 56	3.6	27
91	eNanoMapper: harnessing ontologies to enable data integration for nanomaterial risk assessment. <i>Journal of Biomedical Semantics</i> , 2015 , 6, 10	2.2	48
90	SpeckTackle: JavaScript charts for spectroscopy. <i>Journal of Cheminformatics</i> , 2015 , 7, 17	8.6	10
89	Updates in Rhea--a manually curated resource of biochemical reactions. <i>Nucleic Acids Research</i> , 2015 , 43, D459-64	20.1	37
88	COordination of Standards in MetabOlomicS (COSMOS): facilitating integrated metabolomics data access. <i>Metabolomics</i> , 2015 , 11, 1587-1597	4.7	109
87	Building blocks for automated elucidation of metabolites: natural product-likeness for candidate ranking. <i>BMC Bioinformatics</i> , 2014 , 15, 234	3.6	15
86	Standards for Reporting Enzyme Data: The STRENDA Consortium: What it aims to do and why it should be helpful. <i>Perspectives in Science</i> , 2014 , 1, 131-137	0.8	47
85	Metabolic differences in ripening of <i>Solanum lycopersicum</i> 'Ailsa Craig' and three monogenic mutants. <i>Scientific Data</i> , 2014 , 1, 140029	8.2	9
84	A molecular fragment cheminformatics roadmap for mesoscopic simulation. <i>Journal of Cheminformatics</i> , 2014 , 6, 45	8.6	8
83	Genome-wide association study of metabolic traits reveals novel gene-metabolite-disease links. <i>PLoS Genetics</i> , 2014 , 10, e1004132	6	70
82	MassCascade: Visual Programming for LC-MS Data Processing in Metabolomics. <i>Molecular Informatics</i> , 2014 , 33, 307-310	3.8	11
81	Ten recommendations for software engineering in research. <i>GigaScience</i> , 2014 , 3, 31	7.6	10
80	The mzTab data exchange format: communicating mass-spectrometry-based proteomics and metabolomics experimental results to a wider audience. <i>Molecular and Cellular Proteomics</i> , 2014 , 13, 2765-75	7.6	96
79	The potential utility of predicted one bond carbon-proton coupling constants in the structure elucidation of small organic molecules by NMR spectroscopy. <i>PLoS ONE</i> , 2014 , 9, e111576	3.7	10
78	Efficient ring perception for the Chemistry Development Kit. <i>Journal of Cheminformatics</i> , 2014 , 6, 3	8.6	20
77	Expanding natural product chemistry resources at the EBI. <i>Journal of Cheminformatics</i> , 2013 , 5,	8.6	78
76	KNIME-CDK: Workflow-driven cheminformatics. <i>BMC Bioinformatics</i> , 2013 , 14, 257	3.6	88

75	Dovetailing biology and chemistry: integrating the Gene Ontology with the ChEBI chemical ontology. <i>BMC Genomics</i> , 2013 , 14, 513	4.5	35
74	The Enzyme Portal: a case study in applying user-centred design methods in bioinformatics. <i>BMC Bioinformatics</i> , 2013 , 14, 103	3.6	13
73	Chemical Ontologies for Standardization, Knowledge Discovery, and Data Mining. <i>Methods and Principles in Medicinal Chemistry</i> , 2013 , 55-74	0.4	
72	The EBI enzyme portal. <i>Nucleic Acids Research</i> , 2013 , 41, D773-80	20.1	13
71	MetaboLights--an open-access general-purpose repository for metabolomics studies and associated meta-data. <i>Nucleic Acids Research</i> , 2013 , 41, D781-6	20.1	483
70	The MetaboLights repository: curation challenges in metabolomics. <i>Database: the Journal of Biological Databases and Curation</i> , 2013 , 2013, bat029	5	40
69	OntoQuery: easy-to-use web-based OWL querying. <i>Bioinformatics</i> , 2013 , 29, 2955-7	7.2	6
68	Metingear: a development environment for annotating genome-scale metabolic models. <i>Bioinformatics</i> , 2013 , 29, 2213-5	7.2	6
67	LipidHome: a database of theoretical lipids optimized for high throughput mass spectrometry lipidomics. <i>PLoS ONE</i> , 2013 , 8, e61951	3.7	59
66	The ChEBI reference database and ontology for biologically relevant chemistry: enhancements for 2013. <i>Nucleic Acids Research</i> , 2013 , 41, D456-63	20.1	425
65	Structured chemical class definitions and automated matching for chemical ontology evolution. <i>Journal of Cheminformatics</i> , 2012 , 4,	8.6	78
64	MetaboLights: towards a new COSMOS of metabolomics data management. <i>Metabolomics</i> , 2012 , 8, 757-760	7.6	64
63	Shouldn't enantiomeric purity be included in the 'minimum information about a bioactive entity? Response from the MIABE group. <i>Nature Reviews Drug Discovery</i> , 2012 , 11, 730-730	64.1	
62	Natural product-likeness score revisited: an open-source, open-data implementation. <i>BMC Bioinformatics</i> , 2012 , 13, 106	3.6	48
61	Self-organizing ontology of biochemically relevant small molecules. <i>BMC Bioinformatics</i> , 2012 , 13, 3	3.6	12
60	Structure-based classification and ontology in chemistry. <i>Journal of Cheminformatics</i> , 2012 , 4, 8	8.6	31
59	In support of the BMRB. <i>Nature Structural and Molecular Biology</i> , 2012 , 19, 854-60	17.6	5
58	Bioinformatics meets user-centred design: a perspective. <i>PLoS Computational Biology</i> , 2012 , 8, e1002554		42

57	Rhea--a manually curated resource of biochemical reactions. <i>Nucleic Acids Research</i> , 2012 , 40, D754-60	20.1	63
56	Toward interoperable bioscience data. <i>Nature Genetics</i> , 2012 , 44, 121-6	36.3	286
55	A database for chemical proteomics: ChEBI. <i>Methods in Molecular Biology</i> , 2012 , 803, 273-96	1.4	26
54	Accessing and using chemical property databases. <i>Methods in Molecular Biology</i> , 2012 , 929, 193-219	1.4	1
53	Minimum information about a bioactive entity (MIABE). <i>Nature Reviews Drug Discovery</i> , 2011 , 10, 661-9	64.1	69
52	New developments on the cheminformatics open workflow environment CDK-Taverna. <i>Journal of Cheminformatics</i> , 2011 , 3, 54	8.6	20
51	A Metadata description of the data in "A metabolomic comparison of urinary changes in type 2 diabetes in mouse, rat, and human.". <i>BMC Research Notes</i> , 2011 , 4, 272	2.3	15
50	Open Data, Open Source and Open Standards in chemistry: The Blue Obelisk five years on. <i>Journal of Cheminformatics</i> , 2011 , 3, 37	8.6	46
49	Computational metabolomics [a field at the boundaries of cheminformatics and bioinformatics. <i>Journal of Cheminformatics</i> , 2011 , 3,	8.6	1
48	The chemical information ontology: provenance and disambiguation for chemical data on the biological semantic web. <i>PLoS ONE</i> , 2011 , 6, e25513	3.7	65
47	A large-scale protein-function database. <i>Nature Chemical Biology</i> , 2010 , 6, 785	11.7	17
46	Chemical Entities of Biological Interest: an update. <i>Nucleic Acids Research</i> , 2010 , 38, D249-54	20.1	212
45	So what have data standards ever done for us? The view from metabolomics. <i>Genome Medicine</i> , 2010 , 2, 38	14.4	14
44	CDK-Taverna: an open workflow environment for cheminformatics. <i>BMC Bioinformatics</i> , 2010 , 11, 159	3.6	47
43	OrChem: an open source chemistry search engine for Oracle. <i>Journal of Cheminformatics</i> , 2010 , 2,	8.6	2
42	Progress on an open source computer-assisted structure elucidation suite (SENECA). <i>Journal of Cheminformatics</i> , 2010 , 2,	8.6	2
41	ChEBI: a chemistry ontology and database. <i>Journal of Cheminformatics</i> , 2010 , 2,	8.6	20
40	Towards automatic classification within the ChEBI ontology. <i>Nature Precedings</i> , 2009 ,		4

39	Bioclipse 2: a scriptable integration platform for the life sciences. <i>BMC Bioinformatics</i> , 2009 , 10, 397	3.6	46
38	OrChem - An open source chemistry search engine for Oracle(R). <i>Journal of Cheminformatics</i> , 2009 , 1, 17	8.6	16
37	Building blocks for automated elucidation of metabolites: machine learning methods for NMR prediction. <i>BMC Bioinformatics</i> , 2008 , 9, 400	3.6	80
36	Performance validation of neural network based (13)c NMR prediction using a publicly available data source. <i>Journal of Chemical Information and Modeling</i> , 2008 , 48, 550-5	6.1	24
35	Correlations between Chemical Structures and NMR Data 2008 , 1368-1377		1
34	Creating chemo- & bioinformatics workflows, further developments within the CDK-Taverna Project. <i>Chemistry Central Journal</i> , 2008 , 2,		78
33	Geminal bismethylation prevents polyketide oxidation and dimerization in the benastatin pathway. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 7035-8	16.4	26
32	Userscripts for the life sciences. <i>BMC Bioinformatics</i> , 2007 , 8, 487	3.6	11
31	Bioclipse: an open source workbench for chemo- and bioinformatics. <i>BMC Bioinformatics</i> , 2007 , 8, 59	3.6	82
30	Chemical Markup, XML, and the World Wide Web. 7. CMLSpect, an XML vocabulary for spectral data. <i>Journal of Chemical Information and Modeling</i> , 2007 , 47, 2015-34	6.1	22
29	Classification and comparison of ligand-binding sites derived from grid-mapped knowledge-based potentials. <i>Journal of Molecular Graphics and Modelling</i> , 2006 , 24, 328-40	2.8	16
28	Recent developments of the chemistry development kit (CDK) - an open-source java library for chemo- and bioinformatics. <i>Current Pharmaceutical Design</i> , 2006 , 12, 2111-20	3.3	373
27	The Blue Obelisk-interopability in chemical informatics. <i>Journal of Chemical Information and Modeling</i> , 2006 , 46, 991-8	6.1	341
26	Eine offene NMR-Datenbank. <i>Nachrichten Aus Der Chemie</i> , 2005 , 53, 1039-1041	0.1	1
25	NMRShiftDB -- compound identification and structure elucidation support through a free community-built web database. <i>Phytochemistry</i> , 2004 , 65, 2711-7	4	96
24	Recent developments in automated structure elucidation of natural products. <i>Natural Product Reports</i> , 2004 , 21, 512-8	15.1	82
23	Evolutionary-algorithm-based strategy for computer-assisted structure elucidation. <i>Journal of Chemical Information and Computer Sciences</i> , 2004 , 44, 489-98		12
22	The Chemistry Development Kit (CDK): an open-source Java library for Chemo- and Bioinformatics. <i>Journal of Chemical Information and Computer Sciences</i> , 2003 , 43, 493-500		731

21	The Chemistry Development Kit (CDK): An Open-Source Java Library for Chemo- and Bioinformatics.. <i>ChemInform</i> , 2003 , 34, no		6
20	NMRShiftDB-constructing a free chemical information system with open-source components. <i>Journal of Chemical Information and Computer Sciences</i> , 2003 , 43, 1733-9		99
19	Further isoflavonoid metabolites from <i>Millettia griffoniana</i> (Bail). <i>Phytochemistry</i> , 2001 , 56, 363-8	4	25
18	SENECA: A platform-independent, distributed, and parallel system for computer-assisted structure elucidation in organic chemistry. <i>Journal of Chemical Information and Computer Sciences</i> , 2001 , 41, 1500-7		51
17	JChemPaint - Using the Collaborative Forces of the Internet to Develop a Free Editor for 2D Chemical Structures. <i>Molecules</i> , 2000 , 5, 93-98	4.8	55
16	Solution structure of the aminoacyl-capped oligodeoxyribonucleotide duplex (W-TGCGCAC)(2). <i>Biochemistry</i> , 1999 , 38, 12597-606	3.2	18
15	The Role of Ionic Backbones in RNA Structure: An Unusually Stable Non-Watson-Crick Duplex of a Nonionic Analog in an Apolar Medium. <i>Journal of the American Chemical Society</i> , 1998 , 120, 11576-11580	16.4	22
14	Alkaloids from <i>Thalictrum przewalskii</i> . <i>Planta Medica</i> , 1998 , 64, 165-71	3.1	9
13	MASPA Program Predicting Mass Spectra of Combinatorial Libraries. <i>Journal of Chemical Information and Computer Sciences</i> , 1997 , 37, 449-457		13
12	Identification of Two Chromenes from <i>Calea serrata</i> by Semiautomatic Structure Elucidation. <i>Journal of Natural Products</i> , 1997 , 60, 627-628	4.9	19
11	Spectrometrically monitored selection experiments: quantitative laser desorption mass spectrometry of small chemical libraries. <i>Chemistry and Biology</i> , 1997 , 4, 63-77		35
10	Synthesis of Carba-Porphyrinoids from Tripyrranes and Unsaturated Dialdehydes. <i>Synthesis</i> , 1996 , 1996, 336-340	2.9	27
9	LUCYBA Program for Structure Elucidation from NMR Correlation Experiments. <i>Angewandte Chemie International Edition in English</i> , 1996 , 35, 1984-1986		23
8	Alkaloids from <i>Dactylicapnos torulosa</i> . <i>Phytochemistry</i> , 1995 , 40, 299-305	4	32
7	A 4-methyl-7-hydroxyphthalide glycoside and other constituents from <i>Quillaja saponaria molina</i> . <i>Phytochemistry</i> , 1995 , 40, 1313-5	4	7
6	NFDI4Chem - Towards a National Research Data Infrastructure for Chemistry in Germany. <i>Research Ideas and Outcomes</i> , 6 ,	2.5	9
5	Interoperable and scalable data analysis with microservices: Applications in Metabolomics		2
4	PhenoMeNal: Processing and analysis of Metabolomics data in the Cloud		1

3	Omic Discovery Index - Discovering and Linking Public Omics Datasets	2
2	The LOTUS Initiative for Open Natural Products Research: Knowledge Management through Wikidata	15
1	Computer-Assisted Structure Elucidation 1378-1406	2