

Egon L Willighagen

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.

111
papers

5,264
citations

35
h-index

71
g-index

153
ext. papers

6,612
ext. citations

6.1
avg, IF

5.3
L-index

#	Paper	IF	Citations
111	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
110	WikiPathways: a multifaceted pathway database bridging metabolomics to other omics research. <i>Nucleic Acids Research</i> , 2018 , 46, D661-D667	20.1	421
109	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
108	The Blue Obelisk-interopability in chemical informatics. <i>Journal of Chemical Information and Modeling</i> , 2006 , 46, 991-8	6.1	341
107	WikiPathways: capturing the full diversity of pathway knowledge. <i>Nucleic Acids Research</i> , 2016 , 44, D488-D491	24.1	297
106	Open PHACTS: semantic interoperability for drug discovery. <i>Drug Discovery Today</i> , 2012 , 17, 1188-98	8.8	229
105	Adverse outcome pathways: opportunities, limitations and open questions. <i>Archives of Toxicology</i> , 2017 , 91, 3477-3505	5.8	174
104	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
103	WikiPathways: connecting communities. <i>Nucleic Acids Research</i> , 2021 , 49, D613-D621	20.1	121
102	Community assessment to advance computational prediction of cancer drug combinations in a pharmacogenomic screen. <i>Nature Communications</i> , 2019 , 10, 2674	17.4	119
101	Linked open drug data for pharmaceutical research and development. <i>Journal of Cheminformatics</i> , 2011 , 3, 19	8.6	118
100	OSCAR4: a flexible architecture for chemical text-mining. <i>Journal of Cheminformatics</i> , 2011 , 3, 41	8.6	106
99	The Chemical Translation Service--a web-based tool to improve standardization of metabolomic reports. <i>Bioinformatics</i> , 2010 , 26, 2647-8	7.2	86
98	Bioclipse: an open source workbench for chemo- and bioinformatics. <i>BMC Bioinformatics</i> , 2007 , 8, 59	3.6	82
97	The ChEMBL database as linked open data. <i>Journal of Cheminformatics</i> , 2013 , 5, 23	8.6	78
96	COVID-19 Disease Map, building a computational repository of SARS-CoV-2 virus-host interaction mechanisms. <i>Scientific Data</i> , 2020 , 7, 136	8.2	71
95	FAIR Principles: Interpretations and Implementation Considerations. <i>Data Intelligence</i> , 2020 , 2, 10-29	3	66

94	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
93	The eNanoMapper database for nanomaterial safety information. <i>Beilstein Journal of Nanotechnology</i> , 2015 , 6, 1609-34	3	64
92	A transcriptomics data-driven gene space accurately predicts liver cytopathology and drug-induced liver injury. <i>Nature Communications</i> , 2017 , 8, 15932	17.4	60
91	Elemental composition determination based on MS(n). <i>Bioinformatics</i> , 2011 , 27, 2376-83	7.2	57
90	PubChemRDF: towards the semantic annotation of PubChem compound and substance databases. <i>Journal of Cheminformatics</i> , 2015 , 7, 34	8.6	55
89	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
88	eNanoMapper: harnessing ontologies to enable data integration for nanomaterial risk assessment. <i>Journal of Biomedical Semantics</i> , 2015 , 6, 10	2.2	48
87	SPLASH, a hashed identifier for mass spectra. <i>Nature Biotechnology</i> , 2016 , 34, 1099-1101	44.5	48
86	CDK-Taverna: an open workflow environment for cheminformatics. <i>BMC Bioinformatics</i> , 2010 , 11, 159	3.6	47
85	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
84	Bioclipse 2: a scriptable integration platform for the life sciences. <i>BMC Bioinformatics</i> , 2009 , 10, 397	3.6	46
83	A Data Fusion Pipeline for Generating and Enriching Adverse Outcome Pathway Descriptions. <i>Toxicological Sciences</i> , 2018 , 162, 264-275	4.4	43
82	NanoSolveIT Project: Driving nanoinformatics research to develop innovative and integrated tools for nanosafety assessment. <i>Computational and Structural Biotechnology Journal</i> , 2020 , 18, 583-602	6.8	41
81	Emerging practices for mapping and linking life sciences data using RDF [A case series. <i>Web Semantics</i> , 2012 , 14, 2-13	2.9	41
80	Integration among databases and data sets to support productive nanotechnology: Challenges and recommendations. <i>NanoImpact</i> , 2018 , 9, 85-101	5.6	39
79	The metaRbolomics Toolbox in Bioconductor and beyond. <i>Metabolites</i> , 2019 , 9,	5.6	38
78	Scholia, Scientometrics and Wikidata. <i>Lecture Notes in Computer Science</i> , 2017 , 237-259	0.9	36
77	Chemical markup, XML, and the World Wide Web. 5. Applications of chemical metadata in RSS aggregators. <i>Journal of Chemical Information and Computer Sciences</i> , 2004 , 44, 462-9		35

76	The ToxBank Data Warehouse: Supporting the Replacement of In Vivo Repeated Dose Systemic Toxicity Testing. <i>Molecular Informatics</i> , 2013 , 32, 47-63	3.8	33
75	XMPP for cloud computing in bioinformatics supporting discovery and invocation of asynchronous web services. <i>BMC Bioinformatics</i> , 2009 , 10, 279	3.6	33
74	Towards interoperable and reproducible QSAR analyses: Exchange of datasets. <i>Journal of Cheminformatics</i> , 2010 , 2, 5	8.6	33
73	A survey of quantitative descriptions of molecular structure. <i>Current Topics in Medicinal Chemistry</i> , 2012 , 12, 1946-56	3	32
72	Cationic Gemini Surfactants Based on Tartaric Acid: Synthesis, Aggregation, Monolayer Behaviour, and Interaction with DNA. <i>European Journal of Organic Chemistry</i> , 2002 , 2002, 1397-1406	3.2	31
71	RRegrs: an R package for computer-aided model selection with multiple regression models. <i>Journal of Cheminformatics</i> , 2015 , 7, 46	8.6	30
70	Method for the computational comparison of crystal structures. <i>Acta Crystallographica Section B: Structural Science</i> , 2005 , 61, 29-36		30
69	Toward the Replacement of Animal Experiments through the Bioinformatics-driven Analysis of OmicsSData from Human Cell Cultures. <i>ATLA Alternatives To Laboratory Animals</i> , 2015 , 43, 325-32	2.1	27
68	Using the Semantic Web for Rapid Integration of WikiPathways with Other Biological Online Data Resources. <i>PLoS Computational Biology</i> , 2016 , 12, e1004989	5	25
67	Wikidata as a knowledge graph for the life sciences. <i>ELife</i> , 2020 , 9,	8.9	24
66	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
65	Linking the Resource Description Framework to cheminformatics and proteochemometrics. <i>Journal of Biomedical Semantics</i> , 2011 , 2 Suppl 1, S6	2.2	21
64	New developments on the cheminformatics open workflow environment CDK-Taverna. <i>Journal of Cheminformatics</i> , 2011 , 3, 54	8.6	20
63	Introducing WikiPathways as a Data-Source to Support Adverse Outcome Pathways for Regulatory Risk Assessment of Chemicals and Nanomaterials. <i>Frontiers in Genetics</i> , 2018 , 9, 661	4.5	20
62	On the use of ¹ H and ¹³ C 1D NMR spectra as QSPR descriptors. <i>Journal of Chemical Information and Modeling</i> , 2006 , 46, 487-94	6.1	18
61	The future of metabolomics in ELIXIR. <i>F1000Research</i> , 2017 , 6,	3.6	18
60	The LOTUS Initiative for Open Natural Products Research: Knowledge Management through Wikidata		15
59	Risk Governance of Emerging Technologies Demonstrated in Terms of its Applicability to Nanomaterials. <i>Small</i> , 2020 , 16, e2003303	11	14

58	Nanopublications: A Growing Resource of Provenance-Centric Scientific Linked Data 2018 ,		14
57	Computational toxicology using the OpenTox application programming interface and Bioclipse. <i>BMC Research Notes</i> , 2011 , 4, 487	2.3	13
56	Cheminformatics. <i>Communications of the ACM</i> , 2012 , 55, 65-75	2.5	13
55	Fast and Scriptable Molecular Graphics in Web Browsers without Java3D. <i>Nature Precedings</i> , 2007 ,		13
54	CyTargetLinker app update: A flexible solution for network extension in Cytoscape. <i>F1000Research</i> , 2018 , 7,	3.6	13
53	MECP2 variation in Rett syndrome-An overview of current coverage of genetic and phenotype data within existing databases. <i>Human Mutation</i> , 2018 , 39, 914-924	4.7	12
52	Enabling Open Science: Wikidata for Research (Wiki4R). <i>Research Ideas and Outcomes</i> , 2015 , 1, e7573	2.5	12
51	CyTargetLinker app update: A flexible solution for network extension in Cytoscape. <i>F1000Research</i> , 2018 , 7, 743	3.6	12
50	Scientific Lenses to Support Multiple Views over Linked Chemistry Data. <i>Lecture Notes in Computer Science</i> , 2014 , 98-113	0.9	12
49	Automatically visualise and analyse data on pathways using PathVisioRPC from any programming environment. <i>BMC Bioinformatics</i> , 2015 , 16, 267	3.6	11
48	Userscripts for the life sciences. <i>BMC Bioinformatics</i> , 2007 , 8, 487	3.6	11
47	Can an InChI for Nano Address the Need for a Simplified Representation of Complex Nanomaterials across Experimental and Nanoinformatics Studies?. <i>Nanomaterials</i> , 2020 , 10,	5.4	10
46	The future of metabolomics in ELIXIR. <i>F1000Research</i> , 2017 , 6, 1649	3.6	10
45	A Semi-Automated Workflow for FAIR Maturity Indicators in the Life Sciences. <i>Nanomaterials</i> , 2020 , 10,	5.4	9
44	Resource description framework technologies in chemistry. <i>Journal of Cheminformatics</i> , 2011 , 3, 15	8.6	9
43	Open source drug discovery with bioclipse. <i>Current Topics in Medicinal Chemistry</i> , 2012 , 12, 1980-6	3	9
42	Supervised Self-Organizing Maps in Crystal Property and Structure Prediction. <i>Crystal Growth and Design</i> , 2007 , 7, 1738-1745	3.5	9
41	COVID19 Disease Map, a computational knowledge repository of virus-host interaction mechanisms. <i>Molecular Systems Biology</i> , 2021 , 17, e10387	12.2	9

40	Applications of the InChI in cheminformatics with the CDK and Bioclipse. <i>Journal of Cheminformatics</i> , 2013 , 5, 14	8.6	8
39	Bioclipse-R: integrating management and visualization of life science data with statistical analysis. <i>Bioinformatics</i> , 2013 , 29, 286-9	7.2	8
38	Molecular Chemometrics. <i>Critical Reviews in Analytical Chemistry</i> , 2006 , 36, 189-198	5.2	7
37	Taking FAIR on the ChIN: The Chemistry Implementation Network. <i>Data Intelligence</i> , 2020 , 2, 131-138	3	7
36	Accessing, using, and creating chemical property databases for computational toxicology modeling. <i>Methods in Molecular Biology</i> , 2012 , 929, 221-41	1.4	7
35	Reliable Granular References to Changing Linked Data. <i>Lecture Notes in Computer Science</i> , 2017 , 436-451	0.9	7
34	A protocol for adding knowledge to Wikidata: aligning resources on human coronaviruses. <i>BMC Biology</i> , 2021 , 19, 12	7.3	7
33	Beyond Pathway Analysis: Identification of Active Subnetworks in Rett Syndrome. <i>Frontiers in Genetics</i> , 2019 , 10, 59	4.5	6
32	The Chemistry Development Kit (CDK): An Open-Source Java Library for Chemo- and Bioinformatics.. <i>ChemInform</i> , 2003 , 34, no		6
31	Explicit interaction information from WikiPathways in RDF facilitates drug discovery in the Open PHACTS Discovery Platform. <i>F1000Research</i> , 2018 , 7, 75	3.6	6
30	XMetDB: an open access database for xenobiotic metabolism. <i>Journal of Cheminformatics</i> , 2016 , 8, 47	8.6	5
29	Changing computational research. The challenges ahead. <i>Source Code for Biology and Medicine</i> , 2012 , 7, 2	1.9	5
28	Incorporating Commercial and Private Data into an Open Linked Data Platform for Drug Discovery. <i>Lecture Notes in Computer Science</i> , 2013 , 65-80	0.9	5
27	A Survey of Quantitative Descriptions of Molecular Structure. <i>Current Topics in Medicinal Chemistry</i> , 2013 , 12, 1946-1956	3	4
26	The first eNanoMapper prototype: A substance database to support safe-by-design 2014 ,		4
25	Explicit interaction information from WikiPathways in RDF facilitates drug discovery in the Open PHACTS Discovery Platform. <i>F1000Research</i> , 2018 , 7, 75	3.6	4
24	Complex Portal 2022: new curation frontiers. <i>Nucleic Acids Research</i> , 2021 ,	20.1	4
23	A catalogue of 863 Rett-syndrome-causing MECP2 mutations and lessons learned from data integration. <i>Scientific Data</i> , 2021 , 8, 10	8.2	4

22	A protocol for adding knowledge to Wikidata, a case report		3
21	Robustifying Scholia: paving the way for knowledge discovery and research assessment through Wikidata. <i>Research Ideas and Outcomes</i> ,5,	2.5	3
20	Accessing biological data in R with semantic web technologies		3
19	Automatic OpenAPI to Bio.tools Conversion		3
18	RDFIO: extending Semantic MediaWiki for interoperable biomedical data management. <i>Journal of Biomedical Semantics</i> , 2017 , 8, 35	2.2	2
17	Using the RRegrs R package for automating predictive modelling		2
16	Two real use cases of FAIR maturity indicators in the life sciences		2
15	Reply to "FAIR chemical structure in the Journal of Cheminformatics". <i>Journal of Cheminformatics</i> , 2021 , 13, 49	8.6	2
14	Collaborative Cheminformatics Applications399-422		2
13	Research Techniques Made Simple: Lipidomic Analysis in Skin Research.. <i>Journal of Investigative Dermatology</i> , 2022 , 142, 4-11.e1	4.3	1
12	Wikidata as a FAIR knowledge graph for the life sciences		1
11	Bacting: a next generation, command line version of Bioclipse. <i>Journal of Open Source Software</i> , 2021 , 6, 2558	5.2	1
10	Providing Adverse Outcome Pathways from the AOP-Wiki in a Semantic Web Format to Increase Usability and Accessibility of the Content.. <i>Applied in Vitro Toxicology</i> , 2022 , 8, 2-13	1.3	1
9	ELIXIR and Toxicology: a community in development. <i>F1000Research</i> , 2021 , 10, 1129	3.6	0
8	Providing gene-to-variant and variant-to-gene database identifier mappings to use with BridgeDb mapping services.. <i>F1000Research</i> ,7, 1390	3.6	0
7	A resource to explore the discovery of rare diseases and their causative genes. <i>Scientific Data</i> , 2021 , 8, 124	8.2	0
6	Interpreting the lipidome: bioinformatic approaches to embrace the complexity. <i>Metabolomics</i> , 2021 , 17, 55	4.7	0
5	The AOP-DB RDF: Applying FAIR Principles to the Semantic Integration of AOP Data Using the Research Description Framework.. <i>Frontiers in Toxicology</i> , 2022 , 4, 803983	1.6	0

- 4 PSnpBind: a database of mutated binding site protein-ligand complexes constructed using a multithreaded virtual screening workflow.. *Journal of Cheminformatics*, **2022**, 14, 8 8.6 ○
- 3 Interactive predictive toxicology with Bioclipse and OpenTox **2012**, 35-61
- 2 WikiPathways: Integrating Pathway Knowledge with Clinical Data **2022**, 1457-1466
- 1 Understanding signaling and metabolic paths using semantified and harmonized information about biological interactions.. *PLoS ONE*, **2022**, 17, e0263057 3.7