

Tomas G Åberg

List of Publications by Year in descending order

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62
papers

2,186
citations

279798

23
h-index

223800

46
g-index

65
all docs

65
docs citations

65
times ranked

2318
citing authors

#	ARTICLE	IF	CITATIONS
1	Critical Assessment of QSAR Models of Environmental Toxicity against <i>Tetrahymena pyriformis</i> : Focusing on Applicability Domain and Overfitting by Variable Selection. <i>Journal of Chemical Information and Modeling</i> , 2008, 48, 1733-1746.	5.4	350
2	Combinatorial QSAR Modeling of Chemical Toxicants Tested against <i>Tetrahymena pyriformis</i> . <i>Journal of Chemical Information and Modeling</i> , 2008, 48, 766-784.	5.4	258
3	Applicability Domains for Classification Problems: Benchmarking of Distance to Models for Ames Mutagenicity Set. <i>Journal of Chemical Information and Modeling</i> , 2010, 50, 2094-2111.	5.4	202
4	Distribution and levels of brominated flame retardants in sewage sludge. <i>Chemosphere</i> , 2002, 48, 805-809.	8.2	162
5	Conjoint analysis for environmental evaluation. <i>Environmental Science and Pollution Research</i> , 2008, 15, 244-257.	5.3	111
6	A QSAR for the hydroxyl radical reaction rate constant: validation, domain of application, and prediction. <i>Atmospheric Environment</i> , 2005, 39, 2189-2200.	4.1	77
7	A QSAR for Baseline Toxicity: Validation, Domain of Application, and Prediction. <i>Chemical Research in Toxicology</i> , 2004, 17, 1630-1637.	3.3	69
8	A Review of Probabilistic Risk Assessment of Contaminated Land (12 pp). <i>Journal of Soils and Sediments</i> , 2005, 5, 213-224.	3.0	64
9	Uncertain Numbers and Uncertainty in the Selection of Input Distributions? Consequences for a Probabilistic Risk Assessment of Contaminated Land. <i>Risk Analysis</i> , 2006, 26, 1363-1375.	2.7	46
10	Hexachlorobenzene as an indicator of dioxin production from combustion. <i>Chemosphere</i> , 1985, 14, 1081-1086.	8.2	45
11	Improved process stability during friction stir welding of 5 cm thick copper canisters through shoulder geometry and parameter studies. <i>Science and Technology of Welding and Joining</i> , 2009, 14, 178-184.	3.1	40
12	Identity and dynamics of putative N-fixing picoplankton in the Baltic Sea proper suggest complex patterns of regulation. <i>Environmental Microbiology Reports</i> , 2009, 1, 145-154.	2.4	38
13	Catalytic effects by metal oxides on the formation and degradation of chlorinated aromatic compounds in fly ash. <i>Chemosphere</i> , 2008, 71, 1135-1143.	8.2	37
14	Brominated aromatics from combustion. <i>Chemosphere</i> , 1987, 16, 2451-2465.	8.2	35
15	Chlorinated aromatics from the combustion of hazardous waste. <i>Chemosphere</i> , 1985, 14, 215-221.	8.2	32
16	CADASTER QSPR Models for Predictions of Melting and Boiling Points of Perfluorinated Chemicals. <i>Molecular Informatics</i> , 2011, 30, 189-204.	2.5	32
17	Different Catalytic Effects by Copper and Chromium on the Formation and Degradation of Chlorinated Aromatic Compounds in Fly Ash. <i>Environmental Science & Technology</i> , 2007, 41, 3741-3746.	10.0	30
18	Land-use change versus natural controls on stream water chemistry in the Subandean Amazon, Peru. <i>Applied Geochemistry</i> , 2010, 25, 485-495.	3.0	30

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19	Emission and chlorination pattern of PCDD/PCDF predicted from indicator parameters. <i>Chemosphere</i> , 1987, 16, 1221-1230.	8.2	29
20	Assessing bioaccumulation of polybrominated diphenyl ethers for aquatic species by QSAR modeling. <i>Chemosphere</i> , 2012, 89, 433-444.	8.2	28
21	The chemical and environmental property space of REACH chemicals. <i>Chemosphere</i> , 2012, 87, 975-981.	8.2	28
22	Metal catalyzed formation of chlorinated aromatic compounds: A study of the correlation pattern in incinerator fly ash. <i>Chemosphere</i> , 2007, 67, S185-S190.	8.2	25
23	Prediction of vapour pressures for halogenated diphenyl ether congeners from molecular descriptors. <i>Environmental Science and Pollution Research</i> , 2002, 9, 405-411.	5.3	24
24	PLS-Optimal: A Stepwise D-Optimal Design Based on Latent Variables. <i>Journal of Chemical Information and Modeling</i> , 2012, 52, 975-983.	5.4	23
25	Indicator parameters for PCDD/PCDF. <i>Chemosphere</i> , 1989, 19, 337-344.	8.2	20
26	VIRTUAL SCREENING FOR ENVIRONMENTAL POLLUTANTS: STRUCTURE–ACTIVITY RELATIONSHIPS APPLIED TO A DATABASE OF INDUSTRIAL CHEMICALS. <i>Environmental Toxicology and Chemistry</i> , 2006, 25, 1178.	4.3	18
27	Low-temperature formation and degradation of chlorinated benzenes, PCDD and PCDF in dust from steel production. <i>Science of the Total Environment</i> , 2007, 382, 153-158.	8.0	17
28	Reliability study of friction stir welded copper canisters containing Sweden's nuclear waste. <i>Reliability Engineering and System Safety</i> , 2008, 93, 1491-1499.	8.9	17
29	Climate change – An uncertainty factor in risk analysis of contaminated land. <i>Science of the Total Environment</i> , 2011, 409, 4693-4700.	8.0	17
30	Chlorinated Aromatics from Combustion: Influence of Chlorine, Combustion Conditions, and Catalytic Activity. <i>Environmental Science & Technology</i> , 2003, 37, 3995-4000.	10.0	16
31	Global and Local PLS Regression Models to Predict Vapor Pressure. <i>QSAR and Combinatorial Science</i> , 2008, 27, 273-279.	1.4	16
32	Land-use versus natural controls on soil fertility in the Subandean Amazon, Peru. <i>Science of the Total Environment</i> , 2010, 408, 965-975.	8.0	16
33	Variability and Uncertainty in Swedish Exposure Factors for Use in Quantitative Exposure Assessments. <i>Risk Analysis</i> , 2011, 31, 108-119.	2.7	16
34	Boiling Points of Halogenated Aliphatic Compounds: A Quantitative Structure–Property Relationship for Prediction and Validation. <i>Journal of Chemical Information and Computer Sciences</i> , 2004, 44, 187-192.	2.8	15
35	Halogenated aromatics from steel production: results of a pilot-scale investigation. <i>Chemosphere</i> , 2004, 56, 441-448.	8.2	15
36	Introducing Chemometrics to Graduate Students. <i>Journal of Chemical Education</i> , 2006, 83, 1178.	2.3	14

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37	A Risk Assessment Perspective of Current Practice in Characterizing Uncertainties in QSAR Regression Predictions. <i>Molecular Informatics</i> , 2011, 30, 551-564.	2.5	14
38	Importance of the first design matrix in experimental simplex optimization. <i>Chemometrics and Intelligent Laboratory Systems</i> , 1998, 44, 147-151.	3.5	12
39	Exposure to contaminated sediments during recreational activities at a public bathing place. <i>Journal of Hazardous Materials</i> , 2009, 171, 200-207.	12.4	12
40	Extension of a prediction model to estimate vapor pressures of perfluorinated compounds (PFCs). <i>Chemometrics and Intelligent Laboratory Systems</i> , 2011, 107, 59-64.	3.5	12
41	Comparing Deterministic and Probabilistic Risk Assessments. A case study at a closed steel mill in southern Sweden (7 pp). <i>Journal of Soils and Sediments</i> , 2006, 6, 55-61.	3.0	11
42	Initial Screening of Contaminated Land: A Comparison of US and Swedish Methods. <i>Environmental Management</i> , 2007, 39, 226-234.	2.7	11
43	UNDERSTANDING QUANTITATIVE STRUCTURE-PROPERTY RELATIONSHIPS UNCERTAINTY IN ENVIRONMENTAL FATE MODELING. <i>Environmental Toxicology and Chemistry</i> , 2013, 32, 1069-1076.	4.3	11
44	Comparison of theoretical and experimental models for characterizing solvent properties using reversed phase liquid chromatography. <i>Analytica Chimica Acta</i> , 2011, 702, 37-44.	5.4	10
45	The QSPR-THESAURUS: The Online Platform of the CADASTER Project. <i>ATLA Alternatives To Laboratory Animals</i> , 2014, 42, 13-24.	1.0	10
46	An evaluation of experimental design in QSAR modelling utilizing the <i>k</i> -medoid clustering. <i>Journal of Chemometrics</i> , 2012, 26, 509-517.	1.3	8
47	Modelling of partition constants: linear solvation energy relationships or PLS regression?. <i>Journal of Chemometrics</i> , 2009, 23, 254-262.	1.3	7
48	Optimization of an industrial afterburner. <i>Journal of Chemometrics</i> , 2003, 17, 5-8.	1.3	6
49	A general structure-property relationship to predict the enthalpy of vaporisation at ambient temperatures. <i>SAR and QSAR in Environmental Research</i> , 2007, 18, 127-139.	2.2	6
50	Geochemistry of surface sediments in the Archipelago Sea, SW Finland: a multiparameter and multivariate study. <i>Environmental Earth Sciences</i> , 2011, 62, 725-734.	2.7	6
51	Substitution of chemicals based on assessment of hazard, risk and impact. <i>Journal of Risk Research</i> , 2014, 17, 565-568.	2.6	6
52	Gender differences in risk management of contaminated land at a Swedish authority. <i>Journal of Risk Research</i> , 2014, 17, 353-365.	2.6	5
53	“Dioxins” from Scandinavian waste combustion plants. <i>Chemosphere</i> , 1986, 15, 2041-2044.	8.2	4
54	Conjoint analysis. <i>Environmental Science and Pollution Research</i> , 2008, 15, 119-119.	5.3	4

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55	The Correlation Pattern of Fly Ash Components: Chromium as a Potential Catalyst in the Thermal Formation of Chlorinated Aromatic Compounds. <i>Environmental Chemistry</i> , 2004, 1, 18.	1.5	4
56	Increased deposition of polychlorinated biphenyls (PCBs) under an AC high-voltage power line. <i>Atmospheric Environment</i> , 2009, 43, 6168-6174.	4.1	3
57	Description and Propagation of Uncertainty in Input Parameters in Environmental Fate Models. <i>Risk Analysis</i> , 2013, 33, 1353-1366.	2.7	3
58	Experimental and Theoretical Studies in the EU FP7 Marie Curie Initial Training Network Project, Environmental ChemOinformatics (ECO). <i>ATLA Alternatives To Laboratory Animals</i> , 2014, 42, 7-11.	1.0	3
59	Combustion test data from a Swedish hazardous waste incinerator. <i>Chemosphere</i> , 1986, 15, 2045-2048.	8.2	1
60	Indicator parameters for PCDD/PCDF from electric arc furnaces. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2004, 73, 29-35.	3.5	1
61	Risk Management in Post-Trust Societies. <i>Risk Analysis</i> , 2006, 26, 859-861.	2.7	1
62	Updating existing QSAR models: selection and weighting of new data. <i>Journal of Cheminformatics</i> , 2010, 2, .	6.1	0