Timo Hm Hamers

List of Publications by Year in descending order

77 papers	4,482 citations	117571 34 h-index	102432 66 g-index
78 all docs	78 docs citations	78 times ranked	4791 citing authors

#	Article	IF	Citations
1	In Vitro Profiling of the Endocrine-Disrupting Potency of Brominated Flame Retardants. Toxicological Sciences, 2006, 92, 157-173.	1.4	634
2	Competitive Binding of Poly- and Perfluorinated Compounds to the Thyroid Hormone Transport Protein Transthyretin. Toxicological Sciences, 2009, 109, 206-216.	1.4	270
3	Levels of Hexabromocyclododecane in Harbor Porpoises and Common Dolphins from Western European Seas, with Evidence for Stereoisomer-Specific Biotransformation by Cytochrome P450. Environmental Science & Technology, 2005, 39, 2095-2100.	4.6	222
4	Biotransformation of brominated flame retardants into potentially endocrineâ€disrupting metabolites, with special attention to 2,2â€²,4,4â€²â€tetrabromodiphenyl ether (BDEâ€47). Molecular Nutrition and Food Research, 2008, 52, 284-298.	1.5	202
5	A 28-Day Oral Dose Toxicity Study Enhanced to Detect Endocrine Effects of Hexabromocyclododecane in Wistar Rats. Toxicological Sciences, 2006, 94, 281-292.	1.4	178
6	Effect-based trigger values for in vitro and in vivo bioassays performed on surface water extracts supporting the environmental quality standards (EQS) of the European Water Framework Directive. Science of the Total Environment, 2018, 628-629, 748-765.	3.9	176
7	Effects of endocrine disrupting chemicals on in vitro global DNA methylation and adipocyte differentiation. Toxicology in Vitro, 2013, 27, 1634-1643.	1.1	142
8	In Vitro Toxicity Profiling of Ultrapure Nonâ€“Dioxin-like Polychlorinated Biphenyl Congeners and Their Relative Toxic Contribution to PCB Mixtures in Humans. Toxicological Sciences, 2011, 121, 88-100.	1.4	128
9	QUANTITATIVE STRUCTUREâ€“ACTIVITY RELATIONSHIP MODELING ON IN VITRO ENDOCRINE EFFECTS AND METABOLIC STABILITY INVOLVING 26 SELECTED BROMINATED FLAME RETARDANTS. Environmental Toxicology and Chemistry, 2007, 26, 816.	2.2	113
10	Masking effect of anti-androgens on androgenic activity in European river sediment unveiled by effect-directed analysis. Analytical and Bioanalytical Chemistry, 2009, 394, 1385-1397.	1.9	109
11	Transcriptional and Epigenetic Mechanisms Underlying Enhanced in Vitro Adipocyte Differentiation by the Brominated Flame Retardant BDE-47. Environmental Science & Technology, 2014, 48, 4110-4119.	4.6	109
12	Programming of metabolic effects in C57BL/6JxFVB mice by exposure to bisphenol A during gestation and lactation. Toxicology, 2014, 321, 40-52.	2.0	91
13	TOXICOLOGICAL PROFILING OF SEDIMENTS USING IN VITRO BIOASSAYS, WITH EMPHASIS ON ENDOCRINE DISRUPTION. Environmental Toxicology and Chemistry, 2004, 23, 32.	2.2	87
14	A 28-day oral dose toxicity study enhanced to detect endocrine effects of a purified technical pentabromodiphenyl ether (pentaBDE) mixture in Wistar rats. Toxicology, 2008, 245, 109-122.	2.0	86
15	Effect-Directed Analysis To Explore the Polar Bear Exposome: Identification of Thyroid Hormone Disrupting Compounds in Plasma. Environmental Science & Technology, 2013, 47, 8902-8912.	4.6	80
16	Disruption of thyroid hormone binding to sea bream recombinant transthyretin by ioxinyl and polybrominated diphenyl ethers. Chemosphere, 2007, 69, 155-163.	4.2	78
17	Effects of metal pollution on earthworm communities in a contaminated floodplain area: Linking biomarker, community and functional responses. Environmental Pollution, 2009, 157, 895-903.	3.7	75
18	Bioassay battery interlaboratory investigation of emerging contaminants in spiked water extracts â€“ Towards the implementation of bioanalytical monitoring tools in water quality assessment and monitoring. Water Research, 2016, 104, 473-484.	5.3	71

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19	The application of reporter gene assays for the determination of the toxic potency of diffuse air pollutionâ˜†. Science of the Total Environment, 2000, 262, 159-174.	3.9	60
20	Perfluoroalkyl substances in polar bear motherâ€“cub pairs: A comparative study based on plasma levels from 1998 and 2008. Environment International, 2012, 49, 92-99.	4.8	60
21	Tracing thyroid hormone-disrupting compounds: database compilation and structure-activity evaluation for an effect-directed analysis of sediment. Analytical and Bioanalytical Chemistry, 2015, 407, 5625-5634.	1.9	60
22	The OBELIX project: early life exposure to endocrine disruptors and obesity. American Journal of Clinical Nutrition, 2011, 94, S1933-S1938.	2.2	58
23	Identification of mutagenic and endocrine disrupting compounds in surface water and wastewater treatment plant effluents using high-resolution effect-directed analysis. Water Research, 2020, 168, 115204.	5.3	57
24	In Silico Approach To Identify Potential Thyroid Hormone Disruptors among Currently Known Dust Contaminants and Their Metabolites. Environmental Science & Technology, 2015, 49, 10099-10107.	4.6	54
25	Blood Plasma Sample Preparation Method for the Assessment of Thyroid Hormone-Disrupting Potency in Effect-Directed Analysis. Environmental Science & Technology, 2011, 45, 7936-7944.	4.6	52
26	Risk assessment of metals and organic pollutants for herbivorous and carnivorous small mammal food chains in a polluted floodplain (Biesbosch, The Netherlands). Environmental Pollution, 2006, 144, 581-595.	3.7	49
27	High-Throughput Effect-Directed Analysis Using Downscaled in Vitro Reporter Gene Assays To Identify Endocrine Disruptors in Surface Water. Environmental Science & Technology, 2018, 52, 4367-4377.	4.6	49
28	Organophosphate triesters and selected metabolites enhance binding of thyroxine to human transthyretin in vitro. Toxicology Letters, 2018, 285, 87-93.	0.4	47
29	Challenges in effect-directed analysis with a focus on biological samples. TrAC - Trends in Analytical Chemistry, 2015, 67, 179-191.	5.8	45
30	Biological and chemical analysis of the toxic potency of pesticides in rainwater. Chemosphere, 2001, 45, 609-624.	4.2	42
31	Lutetium Speciation and Toxicity in a Microbial Bioassay: Testing the Free-Ion Model for Lanthanides. Environmental Science & Technology, 2004, 38, 6597-6604.	4.6	40
32	A Small-Volume Bioassay for Quantification of the Esterase Inhibiting Potency of Mixtures of Organophosphate and Carbamate Insecticides in Rainwater: Development and Optimization. Toxicological Sciences, 2000, 58, 60-67.	1.4	39
33	Dioxins, PCBs, chlorinated pesticides and brominated flame retardants in free-range chicken eggs from peri-urban areas in Arusha, Tanzania: Levels and implications for human health. Science of the Total Environment, 2016, 551-552, 656-667.	3.9	39
34	Transthyretin-Binding Activity of Complex Mixtures Representing the Composition of Thyroid-Hormone Disrupting Contaminants in House Dust and Human Serum. Environmental Health Perspectives, 2020, 128, 17015.	2.8	36
35	Toxicity profiling of marine surface sediments: A case study using rapid screening bioassays of exhaustive total extracts, elutriates and passive sampler extracts. Marine Environmental Research, 2017, 124, 81-91.	1.1	35
36	Comparison of inÂvitro and inÂvivo bioassays to measure thyroid hormone disrupting activity in water extracts. Chemosphere, 2018, 191, 868-875.	4.2	35

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37	Estrogenic and esterase-inhibiting potency in rainwater in relation to pesticide concentrations, sampling season and location. Environmental Pollution, 2003, 123, 47-65.	3.7	34
38	Hepatic effects of a highly purified 2,2â€²,3,4,4â€²,5,5â€²-heptachlorbiphenyl (PCB 180) in male and female rats. Toxicology, 2011, 284, 42-53.	2.0	34
39	Removing Critical Gaps in Chemical Test Methods by Developing New Assays for the Identification of Thyroid Hormone System-Disrupting Chemicalsâ€"The ATHENA Project. International Journal of Molecular Sciences, 2020, 21, 3123.	1.8	34
40	Predatorâ€"Prey Relationships in a Two-Species Toxicity Test System. Ecotoxicology and Environmental Safety, 1997, 37, 203-212.	2.9	33
41	Transthyretin-Binding Activity of Contaminants in Blood from Polar Bear (Ursus maritimus) Cubs. Environmental Science & Technology, 2013, 47, 4778-4786.	4.6	33
42	Acute disturbance of calcium homeostasis in PC12 cells as a novel mechanism of action for (sub)micromolar concentrations of organophosphate insecticides. NeuroToxicology, 2014, 43, 110-116.	1.4	33
43	CADMIUM ACCUMULATION IN HERBIVOROUS AND CARNIVOROUS SMALL MAMMALS: META-ANALYSIS OF FIELD DATA AND VALIDATION OF THE BIOACCUMULATION MODEL OPTIMAL MODELING FOR ECOTOXICOLOGICAL APPLICATIONS. Environmental Toxicology and Chemistry, 2007, 26, 1488.	2.2	31
44	Expert opinion on toxicity profilingâ€"report from a NORMAN expert group meeting. Integrated Environmental Assessment and Management, 2013, 9, 185-191.	1.6	31
45	Multivariate toxicity profiles and QSAR modeling of non-dioxin-like PCBs â€“ An investigation of in vitro screening data from ultra-pure congeners. Chemosphere, 2011, 85, 1423-1429.	4.2	30
46	Receptor-based in vitro activities to assess human exposure to chemical mixtures and related health impacts. Environment International, 2021, 146, 106191.	4.8	30
47	An annotation database for chemicals of emerging concern in exposome research. Environment International, 2021, 152, 106511.	4.8	29
48	High-Resolution Fractionation after Gas Chromatography for Effect-Directed Analysis. Analytical Chemistry, 2013, 85, 8204-8211.	3.2	28
49	Rapid activity-directed screening of estrogens by parallel coupling of liquid chromatography with a functional gene reporter assay and mass spectrometry. Journal of Chromatography A, 2015, 1406, 165-174.	1.8	27
50	Testing Endocrine Disruption in Biota Samples: A Method to Remove Interfering Lipids and Natural Hormones. Environmental Science & Technology, 2010, 44, 8322-8329.	4.6	26
51	Toxicological Profile of Ultrapure 2,2â€²,3,4,4â€²,5,5â€²-Heptachlorbiphenyl (PCB 180) in Adult Rats. PLoS ONE, 2014, 9, e104639.	1.1	25
52	Toxicity profiling: An integrated effectâ€based tool for siteâ€specific sediment quality assessment. Integrated Environmental Assessment and Management, 2010, 6, 761-773.	1.6	23
53	Effects of environmental pollutants on calcium release and uptake by rat cortical microsomes. NeuroToxicology, 2018, 69, 266-277.	1.4	23
54	Time-Integrative Passive sampling combined with TOxicity Profiling (TIPTOP): an effect-based strategy for cost-effective chemical water quality assessment. Environmental Toxicology and Pharmacology, 2018, 64, 48-59.	2.0	21

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55	Developmental effects of aerosols and coal burning particles in zebrafish embryos. Environmental Pollution, 2013, 178, 72-79.	3.7	19
56	Simulations of the predator-prey interactions in a two species ecotoxicological test system. Ecological Modelling, 1997, 101, 15-25.	1.2	18
57	Integrated chemical and biological analysis to explain estrogenic potency in bile extracts of red mullet (Mullus barbatus). Aquatic Toxicology, 2013, 134-135, 1-10.	1.9	18
58	The influence of extreme river discharge conditions on the quality of suspended particulate matter in Rivers Meuse and Rhine (The Netherlands). Environmental Research, 2015, 143, 241-255.	3.7	18
59	Analysis of Lipid Metabolism, Immune Function, and Neurobehavior in Adult C57BL/6JxFVB Mice After Developmental Exposure to di (2-ethylhexyl) Phthalate. Frontiers in Endocrinology, 2018, 9, 684.	1.5	18
60	Highly Selective Screening of Estrogenic Compounds in Consumer-Electronics Plastics by Liquid Chromatography in Parallel Combined with Nanofractionation-Bioactivity Detection and Mass Spectrometry. Environmental Science & Technology, 2016, 50, 12385-12393.	4.6	17
61	Lack of a Distinct Gradient in Biomarker Responses in Small Mammals Collected at Different Distances from a Highway. Archives of Environmental Contamination and Toxicology, 2002, 43, 345-355.	2.1	13
62	Pure non-dioxin-like PCB congeners suppress induction of AhR-dependent endpoints in rat liver cells. Environmental Science and Pollution Research, 2016, 23, 2099-2107.	2.7	13
63	Improved androgen specificity of AR-EcoScreen by CRISPR based glucocorticoid receptor knockout. Toxicology in Vitro, 2017, 45, 1-9.	1.1	13
64	Development of a high-throughput bioassay for screening of antibiotics in aquatic environmental samples. Science of the Total Environment, 2020, 729, 139028.	3.9	13
65	High-Performance Data Processing Workflow Incorporating Effect-Directed Analysis for Feature Prioritization in Suspect and Nontarget Screening. Environmental Science & Technology, 2022, 56, 1639-1651.	4.6	13
66	Indoor Pollutant Hexabromocyclododecane Has a Modest Immunomodulatory Effect on House Dust Mite Induced Allergic Asthma in Mice. Environmental Science & Technology, 2016, 50, 405-411.	4.6	11
67	Continuous fraction collection of gas chromatographic separations with parallel mass spectrometric detection applied to cell-based bioactivity analysis. Talanta, 2017, 168, 162-167.	2.9	11
68	Applicability of the black slug Arion ater for monitoring exposure to polycyclic aromatic hydrocarbons and their subsequent bioactivation into DNA binding metabolites. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2004, 552, 219-233.	0.4	10
69	Development of a luminescent mutagenicity test for high-throughput screening of aquatic samples. Toxicology in Vitro, 2018, 46, 350-360.	1.1	8
70	Compound Identification Using Liquid Chromatography and High-Resolution Noncontact Fraction Collection with a Solenoid Valve. SLAS Technology, 2019, 24, 543-555.	1.0	8
71	Do high levels of diffuse and chronic metal pollution in sediments of Rhine and Meuse floodplains affect structure and functioning of terrestrial ecosystems?. Science of the Total Environment, 2008, 406, 443-448.	3.9	7
72	Time integrative sampling properties of Speedisk and silicone rubber passive samplers determined by chemical analysis and inÁvitro bioassay testing. Chemosphere, 2020, 259, 127498.	4.2	7

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73	Effect of Extreme Weather Events on Contaminant Transport From Urban Run-Off to a Fjord System. Frontiers in Environmental Science, 2021, 9, .	1.5	5
74	Levels and distributions of organic pollutants in subtidal sediments from the Loire estuary: Are there any relationships with TTR-binding activity?. Journal of Sea Research, 2016, 118, 59-68.	0.6	4
75	More on the toxicity of decabromodiphenyl etherâ€"Response to Hardy et al. (2008). Toxicology Letters, 2008, 182, 130-132.	0.4	3
76	Optimization of an in vitro assay methodology for competitive binding of thyroidogenic xenobiotics with thyroxine on human transthyretin and albumin. MethodsX, 2017, 4, 404-412.	0.7	2
77	Classification of NDL-PCB congeners based on extensive in vitro screening and multivariate statistics. Toxicology Letters, 2009, 189, S245-S246.	0.4	0