

Wouter H J Vaes

List of Publications by Year in descending order

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40
papers

2,481
citations

236925

25
h-index

315739

38
g-index

40
all docs

40
docs citations

40
times ranked

2252
citing authors

#	ARTICLE	IF	CITATIONS
1	Sensing Dissolved Sediment Porewater Concentrations of Persistent and Bioaccumulative Pollutants Using Disposable Solid-Phase Microextraction Fibers. <i>Environmental Science & Technology</i> , 2000, 34, 5177-5183.	10.0	285
2	Measurement of the Free Concentration Using Solid-Phase Microextraction: Binding to Protein. <i>Analytical Chemistry</i> , 1996, 68, 4463-4467.	6.5	193
3	Using Solid-Phase Microextraction To Determine Partition Coefficients to Humic Acids and Bioavailable Concentrations of Hydrophobic Chemicals. <i>Environmental Science & Technology</i> , 1998, 32, 3430-3435.	10.0	172
4	Absorption of Hydrophobic Compounds into the Poly(dimethylsiloxane) Coating of Solid-Phase Microextraction Fibers: High Partition Coefficients and Fluorescence Microscopy Images. <i>Analytical Chemistry</i> , 2000, 72, 459-464.	6.5	172
5	Solid Phase Microextraction as a Tool To Determine Membrane/Water Partition Coefficients and Bioavailable Concentrations in <i>In Vitro</i> Systems. <i>Chemical Research in Toxicology</i> , 1997, 10, 1067-1072.	3.3	161
6	Acute toxicity of nonpolar versus polar narcosis: Is there a difference?. <i>Environmental Toxicology and Chemistry</i> , 1998, 17, 1380-1384.	4.3	143
7	Bioavailability and Kinetics of Sulforaphane in Humans after Consumption of Cooked versus Raw Broccoli. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 10505-10509.	5.2	123
8	A Vegetable/Fruit Concentrate with High Antioxidant Capacity Has No Effect on Biomarkers of Antioxidant Status in Male Smokers. <i>Journal of Nutrition</i> , 2001, 131, 1714-1722.	2.9	122
9	Influence of pH and Other Modifying Factors on the Distribution Behavior of 4-Quinolones to Solid Phases and Humic Acids Studied by Negligible-Depletion-SPME-HPLC. <i>Environmental Science & Technology</i> , 2000, 34, 4989-4994.	10.0	92
10	Partitioning of Organic Chemicals to Polyacrylate-Coated Solid Phase Microextraction Fibers: Kinetic Behavior and Quantitative Structure-Property Relationships. <i>Analytical Chemistry</i> , 1996, 68, 4458-4462.	6.5	84
11	Understanding and Estimating Membrane/Water Partition Coefficients: Approaches To Derive Quantitative Structure Property Relationships. <i>Chemical Research in Toxicology</i> , 1998, 11, 847-854.	3.3	79
12	Association between Consumption of Cruciferous Vegetables and Condiments and Excretion in Urine of Isothiocyanate Mercapturic Acids. <i>Journal of Agricultural and Food Chemistry</i> , 2006, 54, 5350-5358.	5.2	79
13	Removal of Two Polycyclic Musks in Sewage Treatment Plants: Freely Dissolved and Total Concentrations. <i>Environmental Science & Technology</i> , 2003, 37, 3111-3116.	10.0	77
14	Analysis of the Time-Dependent Acute Aquatic Toxicity of Organophosphorus Pesticides: The Critical Target Occupation Model. <i>Environmental Science & Technology</i> , 1999, 33, 917-925.	10.0	76
15	Polyacrylate-Coated SPME Fibers as a Tool To Simulate Body Residues and Target Concentrations of Complex Organic Mixtures for Estimation of Baseline Toxicity. <i>Environmental Science & Technology</i> , 2000, 34, 324-331.	10.0	73
16	Quantitative Structure-Activity Relationships for the Aquatic Toxicity of Polar and Nonpolar Narcotic Pollutants. <i>Journal of Chemical Information and Computer Sciences</i> , 1998, 38, 845-852.	2.8	64
17	Negligible Depletion Solid-Phase Microextraction with Radiolabeled Analytes To Study Free Concentrations and Protein Binding: An Example with [3H]Estradiol. <i>Analytical Chemistry</i> , 2002, 74, 5993-5997.	6.5	61
18	Sorption Kinetics and Microbial Biodegradation Activity of Hydrophobic Chemicals in Sewage Sludge: Model and Measurements Based on Free Concentrations. <i>Environmental Science & Technology</i> , 2003, 37, 116-122.	10.0	54

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19	Automated Combustion Accelerator Mass Spectrometry for the Analysis of Biomedical Samples in the Low Attomole Range. <i>Analytical Chemistry</i> , 2014, 86, 7635-7641.	6.5	40
20	Effect of Red Wine Consumption on Biomarkers of Oxidative Stress. <i>Alcohol and Alcoholism</i> , 2013, 48, 153-159.	1.6	39
21	Proteomic Analysis of the Developmental Trajectory of Human Hepatic Membrane Transporter Proteins in the First Three Months of Life. <i>Drug Metabolism and Disposition</i> , 2016, 44, 1005-1013.	3.3	35
22	Analysis of Isothiocyanate Mercapturic Acids in Urine: A Biomarker for Cruciferous Vegetable Intake. <i>Journal of Agricultural and Food Chemistry</i> , 2003, 51, 3554-3559.	5.2	33
23	Pediatric Microdose Study of [¹⁴ C]Paracetamol to Study Drug Metabolism Using Accelerated Mass Spectrometry: Proof of Concept. <i>Clinical Pharmacokinetics</i> , 2014, 53, 1045-1051.	3.5	29
24	To Apply Microdosing or Not? Recommendations to Single Out Compounds with Non-Linear Pharmacokinetics. <i>Clinical Pharmacokinetics</i> , 2016, 55, 1-15.	3.5	27
25	Polar narcosis: Designing a suitable training set for QSAR studies. <i>Environmental Science and Pollution Research</i> , 1997, 4, 83-90.	5.3	26
26	Evaluation of Simple Treat 3.0 for two hydrophobic and slowly biodegradable chemicals: polycyclic musks HHCb and AHTN. <i>Water Research</i> , 2003, 37, 4377-4384.	11.3	19
27	Successful Use of [¹⁴ C]Paracetamol Microdosing to Elucidate Developmental Changes in Drug Metabolism. <i>Clinical Pharmacokinetics</i> , 2017, 56, 1185-1195.	3.5	19
28	Observational infant exploratory [¹⁴ C]paracetamol pharmacokinetic microdose/therapeutic dose study with accelerator mass spectrometry bioanalysis. <i>British Journal of Clinical Pharmacology</i> , 2015, 80, 157-167.	2.4	18
29	The Oral Bioavailability and Metabolism of Midazolam in Stable Critically Ill Children: A Pharmacokinetic Microtracing Study. <i>Clinical Pharmacology and Therapeutics</i> , 2021, 109, 140-149.	4.7	14
30	The impact of early human data on clinical development: there is time to win. <i>Drug Discovery Today</i> , 2016, 21, 873-879.	6.4	11
31	Enteral Acetaminophen Bioavailability in Pediatric Intensive Care Patients Determined With an Oral Microtracer and Pharmacokinetic Modeling to Optimize Dosing. <i>Critical Care Medicine</i> , 2019, 47, e975-e983.	0.9	11
32	Potency of isothiocyanates to induce luciferase reporter gene expression via the electrophile-responsive element from murine glutathione S-transferase Ya. <i>Toxicology in Vitro</i> , 2009, 23, 617-621.	2.4	10
33	Towards human <i>ex vivo</i> organ perfusion models to elucidate drug pharmacokinetics in health and disease. <i>Drug Metabolism Reviews</i> , 2020, 52, 438-454.	3.6	10
34	Modeling The Effect of Solvation on Structure, Reactivity, and Partitioning of Organic Solutes: Utility in Drug Design. <i>The IMA Volumes in Mathematics and Its Applications</i> , 1999, , 51-72.	0.5	10
35	A novel approach for dissolving chemicals with low aqueous solubility: Generator disk in the headspace. <i>Environmental Toxicology and Chemistry</i> , 1997, 16, 2229-2231.	4.3	8
36	Microdosing as a Potential Tool to Enhance Clinical Development of Novel Antibiotics: A Tissue and Plasma PK Feasibility Study with Ciprofloxacin. <i>Clinical Pharmacokinetics</i> , 2022, , 1.	3.5	5

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37	Proof of Concept: First Pediatric [14 C]microtracer Study to Create Metabolite Profiles of Midazolam. <i>Clinical Pharmacology and Therapeutics</i> , 2020, 108, 1003-1009.	4.7	4
38	Application of Negligible Depletion Solid-Phase Extraction (nd-SPE) for Estimating Bioavailability and Bioaccumulation of Individual Chemicals and Mixtures. <i>ACS Symposium Series</i> , 2000, , 64-74.	0.5	3
39	Quantification of azacitidine incorporation into human DNA/RNA by accelerator mass spectrometry as direct measure of target engagement. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2021, 202, 114152.	2.8	0
40	Understanding and Estimating Membrane/Water Partition Coefficients: Approaches to Derive Quantitative Structure Property Relationships. , 2000, , 245-248.		0