

Leen Bastiaens

List of Publications by Year in descending order

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31
papers

993
citations

471509

17
h-index

434195

31
g-index

31
all docs

31
docs citations

31
times ranked

1197
citing authors

#	ARTICLE	IF	CITATIONS
1	Inhibition of sulfate reducing bacteria in aquifer sediment by iron nanoparticles. <i>Water Research</i> , 2014, 51, 64-72.	11.3	96
2	Characteristics of chitin extracted from black soldier fly in different life stages. <i>International Journal of Biological Macromolecules</i> , 2020, 165, 3206-3214.	7.5	87
3	Dynamics of an Oligotrophic Bacterial Aquifer Community during Contact with a Groundwater Plume Contaminated with Benzene, Toluene, Ethylbenzene, and Xylenes: an In Situ Mesocosm Study. <i>Applied and Environmental Microbiology</i> , 2005, 71, 3815-3825.	3.1	84
4	Combined Removal of Chlorinated Ethenes and Heavy Metals by Zerovalent Iron in Batch and Continuous Flow Column Systems. <i>Environmental Science & Technology</i> , 2005, 39, 8460-8465.	10.0	66
5	Monitoring the Injection of Microscale Zerovalent Iron Particles for Groundwater Remediation by Means of Complex Electrical Conductivity Imaging. <i>Environmental Science & Technology</i> , 2015, 49, 5593-5600.	10.0	62
6	Corrosion rate estimations of microscale zerovalent iron particles via direct hydrogen production measurements. <i>Journal of Hazardous Materials</i> , 2014, 270, 18-26.	12.4	59
7	Design of a Multifunctional Permeable Reactive Barrier for the Treatment of Landfill Leachate Contamination: Laboratory Column Evaluation. <i>Environmental Science & Technology</i> , 2008, 42, 8890-8895.	10.0	50
8	Field assessment of guar gum stabilized microscale zerovalent iron particles for in-situ remediation of 1,1,1-trichloroethane. <i>Journal of Contaminant Hydrology</i> , 2014, 164, 88-99.	3.3	50
9	Degree of Hydrolysis Affects the Techno-Functional Properties of Lesser Mealworm Protein Hydrolysates. <i>Foods</i> , 2020, 9, 381.	4.3	49
10	Reactivity screening of microscale zerovalent irons and iron sulfides towards different CAHs under standardized experimental conditions. <i>Journal of Hazardous Materials</i> , 2013, 252-253, 204-212.	12.4	46
11	Batch-test study on the dechlorination of 1,1,1-trichloroethane in contaminated aquifer material by zero-valent iron. <i>Journal of Contaminant Hydrology</i> , 2004, 74, 133-144.	3.3	45
12	Impact of Microbial Activities on the Mineralogy and Performance of Column-Scale Permeable Reactive Iron Barriers Operated under Two Different Redox Conditions. <i>Environmental Science & Technology</i> , 2007, 41, 5724-5730.	10.0	35
13	Reactivity recovery of guar gum coupled mZVI by means of enzymatic breakdown and rinsing. <i>Journal of Contaminant Hydrology</i> , 2012, 142-143, 1-10.	3.3	33
14	Use of CAH-degrading bacteria as test-organisms for evaluating the impact of fine zerovalent iron particles on the anaerobic subsurface environment. <i>Chemosphere</i> , 2015, 134, 338-345.	8.2	24
15	Supercritical CO ₂ Extraction of <i>Nannochloropsis</i> sp.: A Lipidomic Study on the Influence of Pretreatment on Yield and Composition. <i>Molecules</i> , 2018, 23, 1854.	3.8	24
16	Guar gum coupled microscale ZVI for in situ treatment of CAHs: Continuous-flow column study. <i>Journal of Hazardous Materials</i> , 2014, 265, 20-29.	12.4	20
17	Simplified determination of the content and average degree of acetylation of chitin in crude black soldier fly larvae samples. <i>Carbohydrate Research</i> , 2020, 488, 107899.	2.3	20
18	Impact of carbon, oxygen and sulfur content of microscale zerovalent iron particles on its reactivity towards chlorinated aliphatic hydrocarbons. <i>Chemosphere</i> , 2013, 93, 2040-2045.	8.2	17

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19	Contrasting dual (C, Cl) isotope fractionation offers potential to distinguish reductive chloroethene transformation from breakdown by permanganate. <i>Science of the Total Environment</i> , 2017, 596-597, 169-177.	8.0	16
20	Agri-Food Side-Stream Inclusion in The Diet of <i>Alphitobius Diaperinus</i> . Part 2: Impact on Larvae Composition. <i>Insects</i> , 2020, 11, 190.	2.2	16
21	Nutritional Profiling and Preliminary Bioactivity Screening of Five Micro-Algae Strains Cultivated in Northwest Europe. <i>Foods</i> , 2021, 10, 1516.	4.3	16
22	Use of organic acids to improve fractionation of the black soldier fly larvae juice into lipid- and protein-enriched fractions. <i>European Food Research and Technology</i> , 2019, 245, 2257-2267.	3.3	14
23	Agri-Food Side-Stream Inclusions in the Diet of <i>Alphitobius diaperinus</i> Part 1: Impact on Larvae Growth Performance Parameters. <i>Insects</i> , 2020, 11, 79.	2.2	12
24	Microbial dechlorination activity during and after chemical oxidant treatment. <i>Journal of Hazardous Materials</i> , 2013, 262, 598-605.	12.4	10
25	Searching for Appropriate Storage Conditions for Short-Term Wet Preservation of <i>Porphyridium purpureum</i> . <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8315.	2.5	7
26	Evaluation of Microbial Load, Formation of Odorous Metabolites and Lipid Stability during Wet Preservation of <i>Nannochloropsis gaditana</i> Concentrates. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3419.	2.5	7
27	Effect of pH on <i>Rhodomonas salina</i> growth, biochemical composition, and taste, produced in semi-large scale under sunlight conditions. <i>Journal of Applied Phycology</i> , 2022, 34, 1215-1226.	2.8	7
28	Impact of Chemical Oxidants on the Heavy Metals and the Microbial Population in Sediments. <i>Water, Air, and Soil Pollution</i> , 2013, 224, 1.	2.4	6
29	Quantitative and functional dynamics of <i>Dehalococcoides</i> spp. and its <i>tceA</i> and <i>vcrA</i> genes under TCE exposure. <i>Biodegradation</i> , 2014, 25, 493-504.	3.0	5
30	Effect of boron on reactivity and apparent corrosion rate of microscale zerovalent irons. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 1892-1898.	6.7	5
31	Using Silica Coated Nanoscale Zerovalent Particles for the Reduction of Chlorinated Ethylenes. <i>Silicon</i> , 2018, 10, 2593-2601.	3.3	5