

Brigitte Helmreich

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

1,300
citations

623734

14
h-index

345221

36
g-index

38
all docs

38
docs citations

38
times ranked

1558
citing authors

#	ARTICLE	IF	CITATIONS
1	Critical review of heavy metal pollution of traffic area runoff: Occurrence, influencing factors, and partitioning. <i>Science of the Total Environment</i> , 2016, 541, 895-919.	8.0	277
2	Runoff pollutants of a highly trafficked urban road – Correlation analysis and seasonal influences. <i>Chemosphere</i> , 2010, 80, 991-997.	8.2	167
3	Co-digestion of food waste in a municipal wastewater treatment plant: Comparison of batch tests and full-scale experiences. <i>Waste Management</i> , 2016, 47, 28-33.	7.4	120
4	To What Extent Can Full-Scale Wastewater Treatment Plant Effluent Influence the Occurrence of Silver-Based Nanoparticles in Surface Waters?. <i>Environmental Science & Technology</i> , 2016, 50, 6327-6333.	10.0	110
5	Electrochemical disinfection using boron-doped diamond electrode – The synergetic effects of in situ ozone and free chlorine generation. <i>Chemosphere</i> , 2015, 121, 47-53.	8.2	102
6	Influence of chemical conditioning on the ion exchange capacity and on kinetic of zinc uptake by clinoptilolite. <i>Water Research</i> , 2005, 39, 1527-1532.	11.3	76
7	General Technical Approvals for Decentralised Sustainable Urban Drainage Systems (SUDS) – The Current Situation in Germany. <i>Sustainability</i> , 2015, 7, 3031-3051.	3.2	56
8	A three-stage treatment system for highly polluted urban road runoff. <i>Journal of Environmental Management</i> , 2013, 128, 306-312.	7.8	45
9	Heavy metal removal mechanisms of sorptive filter materials for road runoff treatment and remobilization under de-icing salt applications. <i>Water Research</i> , 2016, 102, 453-463.	11.3	35
10	Evaluation of site-specific factors influencing heavy metal contents in the topsoil of vegetated infiltration swales. <i>Science of the Total Environment</i> , 2016, 560-561, 19-28.	8.0	31
11	Serial coupling of RP and zwitterionic hydrophilic interaction LC-MS: Suspects screening of diclofenac transformation products by oxidation with a boron-doped diamond electrode. <i>Journal of Separation Science</i> , 2013, 36, 3011-3018.	2.5	30
12	The enzymatic and antioxidative stress response of <i>Lemna minor</i> to copper and a chloroacetamide herbicide. <i>Environmental Science and Pollution Research</i> , 2015, 22, 18495-18507.	5.3	28
13	Influence of façade orientation on the leaching of biocides from building façades covered with mortars and plasters. <i>Science of the Total Environment</i> , 2020, 734, 139465.	8.0	26
14	Evaluation of Factors Influencing Lab-Scale Studies to Determine Heavy Metal Removal by Six Sorbents for Stormwater Treatment. <i>Water (Switzerland)</i> , 2016, 8, 62.	2.7	14
15	A novel test method to determine the filter material service life of decentralized systems treating runoff from traffic areas. <i>Journal of Environmental Management</i> , 2016, 179, 66-75.	7.8	14
16	Sequential extraction of heavy metals from sorptive filter media and sediments trapped in stormwater quality improvement devices for road runoff. <i>Science of the Total Environment</i> , 2021, 782, 146875.	8.0	13
17	Stormwater Management: Calculation of Traffic Area Runoff Loads and Traffic Related Emissions. <i>Water (Switzerland)</i> , 2016, 8, 294.	2.7	12
18	Settling of Road-Deposited Sediment: Influence of Particle Density, Shape, Low Temperatures, and Deicing Salt. <i>Water (Switzerland)</i> , 2020, 12, 3126.	2.7	12

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19	Surface equilibrium and dynamics for the adsorption of anionic dyes onto MnO ₂ /biomass micro-composite. <i>Green Chemistry Letters and Reviews</i> , 2022, 15, 51-60.	4.7	12
20	Elimination of Zinc from Roof Runoff through Geotextile and Clinoptilolite Filters. <i>Clean - Soil, Air, Water</i> , 2004, 32, 419-428.	0.6	11
21	Influence of Temperature and De-Icing Salt on the Sedimentation of Particulate Matter in Traffic Area Runoff. <i>Water (Switzerland)</i> , 2018, 10, 1738.	2.7	11
22	Interaction of heavy metals and biocide/herbicide from stormwater runoff of buildings with dissolved organic matter. <i>Science of the Total Environment</i> , 2022, 814, 152599.	8.0	11
23	Spatial distribution of zinc in the topsoil of four vegetated infiltration swales treating zinc roof runoff. <i>Science of the Total Environment</i> , 2019, 672, 806-814.	8.0	9
24	Aqueous phase of thermo-catalytic reforming of sewage sludge – quantity, quality, and its electrooxidative treatment by a boron-doped diamond electrode. <i>Separation and Purification Technology</i> , 2022, 286, 120392.	7.9	9
25	Copper and Zinc as Roofing Materials – A Review on the Occurrence and Mitigation Measures of Runoff Pollution. <i>Water (Switzerland)</i> , 2022, 14, 291.	2.7	9
26	Consequences of fluctuating depth of filter media on coliform removal performance and effluent reuse opportunities of a bio-sand filter in municipal wastewater treatment. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104135.	6.7	8
27	Estimating the agricultural irrigation demand for planning of non-potable water reuse projects. <i>Agricultural Water Management</i> , 2021, 244, 106529.	5.6	8
28	Modelling the environmental fate and behavior of biocides used in façades covered with mortars and plasters and their transformation products. <i>Building and Environment</i> , 2022, 216, 108991.	6.9	8
29	Performance of biochars for the elimination of trace organic contaminants and metals from urban stormwater. <i>Environmental Science: Water Research and Technology</i> , 2022, 8, 1287-1299.	2.4	8
30	Fate of Diclofenac and Its Transformation and Inorganic By-Products in Different Water Matrices during Electrochemical Advanced Oxidation Process Using a Boron-Doped Diamond Electrode. <i>Water (Switzerland)</i> , 2020, 12, 1686.	2.7	7
31	Leaching prediction for vertical test panels coated with plaster and mortars exposed under real conditions by a PHREEQC leaching model. <i>Chemosphere</i> , 2021, 280, 130657.	8.2	5
32	Development of a Model for Stormwater Runoff Prediction on Vertical Test Panels Coated with Plaster and Mortar. <i>Water (Switzerland)</i> , 2020, 12, 2593.	2.7	4
33	Removal of hydrocarbons from synthetic road runoff through adsorptive filters. <i>Water Science and Technology</i> , 2015, 72, 802-809.	2.5	3
34	Groundwater risk assessment of leached inorganic substances from façades coated with plasters and mortars. <i>Chemosphere</i> , 2022, 287, 132176.	8.2	3
35	Leaching potential of heavy metals from road-deposited sediment and sorptive media during dry periods in storm water quality improvement devices. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 1890-1901.	2.4	2
36	Rainwater Management in Urban Areas. <i>Water (Switzerland)</i> , 2021, 13, 1096.	2.7	2

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37	Microbial retention and resistances in stormwater quality improvement devices treating road runoff. FEMS Microbes, 2021, 2, .	2.1	1