Roberta Hofman-Caris

List of Publications by Year
in descending order

Version: 2024-02-01

52 papers	1,632 citations	236925 25 h-index	302126 39 g-index
55 all docs	55 docs citations	55 times ranked	1916 citing authors

#	Article	IF	Citations
1	Enhancing Governance Capacity to Ensure a Long-Term Water Supply: The Case of Windhoek, Namibia. Sustainability, 2022, 14, 2387.	3.2	1
2	Monitoring occurrence of SARS-CoV-2 in school populations: A wastewater-based approach. PLoS ONE, 2022, 17, e0270168.	2.5	37
3	Computational fluid dynamics simulation of two-phase flow and dissolved oxygen in a wastewater treatment oxidation ditch. Chemical Engineering Research and Design, 2021, 145, 340-353.	5.6	21
4	Optimal storage sizing for indoor arena rainwater harvesting: Hydraulic simulation and economic assessment. Journal of Environmental Management, 2021, 280, 111847.	7.8	11
5	Short-Term Forecasting of Household Water Demand in the UK Using an Interpretable Machine Learning Approach. Journal of Water Resources Planning and Management - ASCE, 2021, 147, .	2.6	15
6	Hydroinformatics education â€“ the Water Informatics in Science and Engineering (WISE) Centre for Doctoral Training. Hydrology and Earth System Sciences, 2021, 25, 2721-2738.	4.9	3
7	Making Waves: Collaboration in the time of SARS-CoV-2 - rapid development of an international co-operation and wastewater surveillance database to support public health decision-making. Water Research, 2021, 199, 117167.	11.3	48
8	From pollutant removal to resource recovery: A bibliometric analysis of municipal wastewater research in Europe. Chemosphere, 2021, 284, 131267.	8.2	29
9	Addressing Water Security: An Overview. Sustainability, 2021, 13, 13702.	3.2	7
10	Water Demand Forecasting Accuracy and Influencing Factors at Different Spatial Scales Using a Gradient Boosting Machine. Water Resources Research, 2020, 56, e2019WR026304.	4.2	33
11	A Stochastic Model to Predict Flow, Nutrient and Temperature Changes in a Sewer under Water Conservation Scenarios. Water (Switzerland), 2020, 12, 1187.	2.7	15
12	Global Sensitivity Analysis of Metabolic Models for Phosphorus Accumulating Organisms in Enhanced Biological Phosphorus Removal. Frontiers in Bioengineering and Biotechnology, 2019, 7, 234.	4.1	7
13	Origin, Fate and Control of Pharmaceuticals in the Urban Water Cycle: A Case Study. Water (Switzerland), 2019, 11, 1034.	2.7	9
14	The Challenges of Water Management and Governance in Cities. Water (Switzerland), 2019, 11, 1180.	2.7	10
15	New framework for automated article selection applied to a literature review of Enhanced Biological Phosphorus Removal. PLoS ONE, 2019, 14, e0216126.	2.5	6
16	Rainwater Harvesting for Drinking Water Production: A Sustainable and Cost-Effective Solution in The Netherlands?. Water (Switzerland), 2019, 11, 511.	2.7	41
17	Development and performance of a parsimonious model to estimate temperature in sewer networks. Urban Water Journal, 2017, 14, 829-838.	2.1	15
18	Limitations of Conventional Drinking Water Technologies in Pollutant Removal. Handbook of Environmental Chemistry, 2017, , 21-51.	0.4	4

#	Article	IF	Citations
19	Removal of pharmaceuticals from WWTP effluent: Removal of EfOM followed by advanced oxidation. Chemical Engineering Journal, 2017, 327, 514-521.	12.7	35
20	Is there evidence for man-made nanoparticles in the Dutch environment?. Science of the Total Environment, 2017, 576, 273-283.	8.0	67
21	Different compositions of pharmaceuticals in Dutch and Belgian rivers explained by consumption patterns and treatment efficiency. Environmental Science and Pollution Research, 2014, 21, 12843-12855.	5.3	35
22	A bottom-up approach to estimate dry weather flow in minor sewer networks. Water Science and Technology, 2014, 69, 1059-1066.	2.5	7
23	Energy in the urban water cycle: Actions to reduce the total expenditure of fossil fuels with emphasis on heat reclamation from urban water. Renewable and Sustainable Energy Reviews, 2014, 30, 808-820.	16.4	75
24	The potential of (waste)water as energy carrier. Energy Conversion and Management, 2013, 65, 357-363.	9.2	182
25	Prediction of advanced oxidation performance in UV/H2O2 reactor systems with LP-UV lamps. Water Science and Technology: Water Supply, 2011, 11, 460-467.	2.1	9
26	A systematic approach for the design of UV reactors using computational fluid dynamics. AICHE Journal, 2011, 57, 193-207.	3.6	35
27	Water and energy as inseparable twins for sustainable solutions. Water Science and Technology, 2011, 63, 88-92.	2.5	43
28	Evaluation of experimental techniques to validate numerical computations of the hydraulics inside a UV bench-scale reactor. Chemical Engineering Science, 2010, 65, 4491-4502.	3.8	33
29	Evaluation of different disinfection calculation methods using CFD. Environmental Modelling and Software, 2010, 25, 573-582.	4.5	54
30	The weaknesses of a kâ€“É› model compared to a large-eddy simulation for the prediction of UV dose distributions and disinfection. Chemical Engineering Journal, 2010, 162, 528-536.	12.7	27
31	Residence Time Distributions in Ozone Contactors. Ozone: Science and Engineering, 2008, 30, 49-57.	2.5	26
32	Fiber failure frequency and causes of hollow fiber integrity loss. Desalination, 2006, 194, 251-258.	8.2	78
33	A nanofiltration retention model for trace contaminants in drinking water sources. Desalination, 2005, 178, 179-192.	8.2	33
34	Drinking water treatment in The Netherlands: outstanding and still ambitious. Water Science and Technology: Water Supply, 2004, 4, 253-262.	2.1	3
35	Is direct nanofiltration with air fluxh an alternative for household water production for Amsterdam?. Desalination, 2003, 152, 263-269.	8.2	6
36	Fouling and accuracy drift of water meters. Water Science and Technology: Water Supply, 2002, 2, 129-136.	2.1	1

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37	Nitrification in rapid sand filter: phosphate limitation at low temperatures. Water Science and Technology: Water Supply, 2002, 2, 37-46.	2.1	14
38	Long term capacity of biological activated carbon filtration for organics removal. Water Science and Technology: Water Supply, 2002, 2, 139-146.	2.1	7
39	Scaling control of RO membranes and direct treatment of surface water. Desalination, 2000, 132, 109-119.	8.2	37
40	Retention of herbicides and pesticides in relation to aging of RO membranes. Desalination, 2000, 132, 189-193.	8.2	39
41	RO treatment: selection of a pretreatment scheme based on fouling characteristics and operating conditions based on environmental impact. Desalination, 2000, 127, 89-101.	8.2	49
42	Benefits of ozone-activated carbon filtration in integrated treatment processes, including membrane systems. Journal of Water Supply: Research and Technology - AQUA, 2000, 49, 341-356.	1.4	8
43	The use of biological activated carbon filtration for the removal of natural organic matter and organic micropollutants from water. Water Science and Technology, 1999, 40, 257.	2.5	25
44	Integrated multi-objective membrane systems for surface water treatment: pretreatment of reverse osmosis by conventional treatment and ultrafiltration. Desalination, 1998, 117, 37-48.	8.2	44
45	Electrodialysis as an alternative for reverse osmosis in an integrated membrane system. Desalination, 1998, 117, 159-172.	8.2	37
46	Biofouling of membranes for drinking water production. Desalination, 1998, 118, 157-166.	8.2	145
47	Integrated multi-objective membrane systems application of reverse osmosis at the Amsterdam Water Supply. Desalination, 1998, 119, 263-273.	8.2	6
48	Enhanced surface water treatment by ultrafiltration. Desalination, 1998, 119, 113-125.	8.2	19
49	Removal of pesticides and other micropollutants with cellulose-acetate, polyamide and ultra-low pressure reverse osmosis membranes. Desalination, 1997, 113, 209-214.	8.2	75
50	Hydrodynamic and surface interaction forces on a particle in a pore. Journal of Colloid and Interface Science, 1992, 154, 359-368.	9.4	11
51	Permeability reduction of porous media on transport of emulsions through them. Colloids and Surfaces, 1991, 61, 317-329.	0.9	36
52	Destabilization of emulsions through deformation of the droplets. Journal of Colloid and Interface Science, 1991, 147, 508-516.	9.4	14