Roberta Hofman-Caris

List of Publications by Year
in descending order

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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	The potential of (waste)water as energy carrier. Energy Conversion and Management, 2013, 65, 357-363.	9.2	182
2	Biofouling of membranes for drinking water production. Desalination, 1998, 118, 157-166.	8.2	145
3	Fiber failure frequency and causes of hollow fiber integrity loss. Desalination, 2006, 194, 251-258.	8.2	78
4	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
5	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
6	Is there evidence for man-made nanoparticles in the Dutch environment?. Science of the Total Environment, 2017, 576, 273-283.	8.0	67
7	Evaluation of different disinfection calculation methods using CFD. Environmental Modelling and Software, 2010, 25, 573-582.	4.5	54
8	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
9	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
10	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
11	Water and energy as inseparable twins for sustainable solutions. Water Science and Technology, 2011, 63, 88-92.	2.5	43
12	Rainwater Harvesting for Drinking Water Production: A Sustainable and Cost-Effective Solution in The Netherlands?. Water (Switzerland), 2019, 11, 511.	2.7	41
13	Retention of herbicides and pesticides in relation to aging of RO membranes. Desalination, 2000, 132, 189-193.	8.2	39
14	Electrodialysis as an alternative for reverse osmosis in an integrated membrane system. Desalination, 1998, 117, 159-172.	8.2	37
15	Scaling control of RO membranes and direct treatment of surface water. Desalination, 2000, 132, 109-119.	8.2	37
16	Monitoring occurrence of SARS-CoV-2 in school populations: A wastewater-based approach. PLoS ONE, 2022, 17, e0270168.	2.5	37
17	Permeability reduction of porous media on transport of emulsions through them. Colloids and Surfaces, 1991, 61, 317-329.	0.9	36
18	A systematic approach for the design of UV reactors using computational fluid dynamics. AICHE Journal, 2011, 57, 193-207.	3.6	35

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19	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
20	Removal of pharmaceuticals from WWTP effluent: Removal of EfOM followed by advanced oxidation. Chemical Engineering Journal, 2017, 327, 514-521.	12.7	35
21	A nanofiltration retention model for trace contaminants in drinking water sources. Desalination, 2005, 178, 179-192.	8.2	33
22	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
23	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
24	From pollutant removal to resource recovery: A bibliometric analysis of municipal wastewater research in Europe. Chemosphere, 2021, 284, 131267.	8.2	29
25	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
26	Residence Time Distributions in Ozone Contactors. Ozone: Science and Engineering, 2008, 30, 49-57.	2.5	26
27	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
28	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
29	Enhanced surface water treatment by ultrafiltration. Desalination, 1998, 119, 113-125.	8.2	19
30	Development and performance of a parsimonious model to estimate temperature in sewer networks. Urban Water Journal, 2017, 14, 829-838.	2.1	15
31	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
32	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
33	Destabilization of emulsions through deformation of the droplets. Journal of Colloid and Interface Science, 1991, 147, 508-516.	9.4	14
34	Nitrification in rapid sand filter: phosphate limitation at low temperatures. Water Science and Technology: Water Supply, 2002, 2, 37-46.	2.1	14
35	Hydrodynamic and surface interaction forces on a particle in a pore. Journal of Colloid and Interface Science, 1992, 154, 359-368.	9.4	11
36	Optimal storage sizing for indoor arena rainwater harvesting: Hydraulic simulation and economic assessment. Journal of Environmental Management, 2021, 280, 111847.	7.8	11

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37	The Challenges of Water Management and Governance in Cities. Water (Switzerland), 2019, 11, 1180.	2.7	10
38	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
39	Origin, Fate and Control of Pharmaceuticals in the Urban Water Cycle: A Case Study. Water (Switzerland), 2019, 11, 1034.	2.7	9
40	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
41	Long term capacity of biological activated carbon filtration for organics removal. Water Science and Technology: Water Supply, 2002, 2, 139-146.	2.1	7
42	A bottom-up approach to estimate dry weather flow in minor sewer networks. Water Science and Technology, 2014, 69, 1059-1066.	2.5	7
43	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
44	Addressing Water Security: An Overview. Sustainability, 2021, 13, 13702.	3.2	7
45	Integrated multi-objective membrane systems application of reverse osmosis at the Amsterdam Water Supply. Desalination, 1998, 119, 263-273.	8.2	6
46	Is direct nanofiltration with air fluxh an alternative for household water production for Amsterdam?. Desalination, 2003, 152, 263-269.	8.2	6
47	New framework for automated article selection applied to a literature review of Enhanced Biological Phosphorus Removal. PLoS ONE, 2019, 14, e0216126.	2.5	6
48	Limitations of Conventional Drinking Water Technologies in Pollutant Removal. Handbook of Environmental Chemistry, 2017, , 21-51.	0.4	4
49	Drinking water treatment in The Netherlands: outstanding and still ambitious. Water Science and Technology: Water Supply, 2004, 4, 253-262.	2.1	3
50	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
51	Fouling and accuracy drift of water meters. Water Science and Technology: Water Supply, 2002, 2, 129-136.	2.1	1
52	Enhancing Governance Capacity to Ensure a Long-Term Water Supply: The Case of Windhoek, Namibia. Sustainability, 2022, 14, 2387.	3.2	1