

Jan Peter Van der Hoek

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2717675/publications.pdf>

Version: 2024-02-01

98
papers

2,986
citations

159358

30
h-index

189595

50
g-index

103
all docs

103
docs citations

103
times ranked

3145
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of the efficacy of the UV/Chlorine process for the removal of trimethoprim: Effects of operational parameters and artificial neural networks modelling. <i>Science of the Total Environment</i> , 2022, 812, 152551.	3.9	9
2	Remediation potential of agricultural organic micropollutants in in-situ techniques: A review. <i>Ecological Informatics</i> , 2022, 68, 101517.	2.3	5
3	Adsorption of humic acid fractions by a magnetic ion exchange resin. <i>Water Science and Technology</i> , 2022, 85, 2129-2144.	1.2	2
4	Identification and Quantification of Nanoplastics in Surface Water and Groundwater by Pyrolysis Gas Chromatography–Mass Spectrometry. <i>Environmental Science & Technology</i> , 2022, 56, 4988-4997.	4.6	65
5	Effects of biological activated carbon filter running time on disinfection by-product precursor removal. <i>Science of the Total Environment</i> , 2022, 838, 155936.	3.9	9
6	Toward Carbon-Neutral Water Systems: Insights from Global Cities. <i>Engineering</i> , 2022, 14, 77-85.	3.2	10
7	Life Cycle Environmental Impacts of Wastewater-Derived Phosphorus Products: An Agricultural End-User Perspective. <i>Environmental Science & Technology</i> , 2022, 56, 10289-10298.	4.6	14
8	Identifying critical elements in drinking water distribution networks using graph theory. <i>Structure and Infrastructure Engineering</i> , 2021, 17, 347-360.	2.0	11
9	Synthesis and characterization of SnO ₂ crystalline nanoparticles: A new approach for enhancing the catalytic ozonation of acetaminophen. <i>Journal of Hazardous Materials</i> , 2021, 404, 124154.	6.5	24
10	Pyrite nanoparticles derived from mine waste as efficient catalyst for the activation of persulfates for degradation of tetracycline. <i>Journal of Water Process Engineering</i> , 2021, 40, 101808.	2.6	33
11	Use of mine waste for H ₂ O ₂ -assisted heterogeneous Fenton-like degradation of tetracycline by natural pyrite nanoparticles: Catalyst characterization, degradation mechanism, operational parameters and cytotoxicity assessment. <i>Journal of Cleaner Production</i> , 2021, 291, 125235.	4.6	53
12	Resilient Drinking Water Resources. <i>Water Resources Management</i> , 2021, 35, 337-351.	1.9	6
13	Biomass-derived porous aminated graphitic nanosheets for removal of the pharmaceutical metronidazole: Optimization of physicochemical features and exploration of process mechanisms. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 611, 125791.	2.3	21
14	Can terminal settling velocity and drag of natural particles in water ever be predicted accurately?. <i>Drinking Water Engineering and Science</i> , 2021, 14, 53-71.	0.8	2
15	Microbiological Health Risk Assessment of Water Conservation Strategies: A Case Study in Amsterdam. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 2595.	1.2	6
16	Changes in biofilm composition and microbial water quality in drinking water distribution systems by temperature increase induced through thermal energy recovery. <i>Environmental Research</i> , 2021, 194, 110648.	3.7	14
17	Magnetic seeding coagulation: Effect of Al species and magnetic particles on coagulation efficiency, residual Al, and floc properties. <i>Chemosphere</i> , 2021, 268, 129363.	4.2	19
18	Maximizing Thermal Energy Recovery from Drinking Water for Cooling Purpose. <i>Energies</i> , 2021, 14, 2413.	1.6	3

#	ARTICLE	IF	CITATIONS
19	Effect of oxidation ditch and anaerobic-anoxic-oxic processes on CX3R-type disinfection by-product formation during wastewater treatment. <i>Science of the Total Environment</i> , 2021, 770, 145344.	3.9	15
20	The Impact of System Integration on System Costs of a Neighborhood Energy and Water System. <i>Energies</i> , 2021, 14, 2616.	1.6	4
21	New hydraulic insights into rapid sand filter bed backwashing using the Carman-Kozeny model. <i>Water Research</i> , 2021, 197, 117085.	5.3	13
22	Experimental and numerical insights into heterogeneous liquid-solid behaviour in drinking water softening reactors. <i>Chemical Engineering Science: X</i> , 2021, 11, 100100.	1.5	4
23	A novel sensor measuring local voidage profile inside a fluidised bed reactor. <i>Journal of Water Process Engineering</i> , 2021, 42, 102091.	2.6	1
24	Quantification and modelling of organic micropollutant removal by reverse osmosis (RO) drinking water treatment. <i>Journal of Water Process Engineering</i> , 2021, 42, 102164.	2.6	28
25	Fluidisation characteristics of granular activated carbon in drinking water treatment applications. <i>Advanced Powder Technology</i> , 2021, 32, 3174-3188.	2.0	4
26	Removal of Hydrogen Peroxide Residuals and By-Product Bromate from Advanced Oxidation Processes by Granular Activated Carbon. <i>Water (Switzerland)</i> , 2021, 13, 2460.	1.2	6
27	Simultaneous removal of ammonium ions and sulfamethoxazole by ozone regenerated high silica zeolites. <i>Water Research</i> , 2021, 188, 116472.	5.3	32
28	Recent applications of biological technologies for decontaminating hormones in livestock waste and wastewater. <i>Current Opinion in Environmental Science and Health</i> , 2021, 24, 100307.	2.1	3
29	Removal of organic micropollutants by well-tailored granular zeolites and subsequent ozone-based regeneration. <i>Journal of Water Process Engineering</i> , 2021, 44, 102403.	2.6	8
30	Towards Sustainable Heat Supply with Decentralized Multi-Energy Systems by Integration of Subsurface Seasonal Heat Storage. <i>Energies</i> , 2021, 14, 7958.	1.6	5
31	Low-Carbon Urban Water Systems: Opportunities beyond Water and Wastewater Utilities?. <i>Environmental Science & Technology</i> , 2020, 54, 14854-14861.	4.6	25
32	The effective design of sampling campaigns for emerging chemical and microbial contaminants in drinking water and its resources based on literature mining. <i>Science of the Total Environment</i> , 2020, 742, 140546.	3.9	13
33	Improvement of voidage prediction in liquid-solid fluidized beds by inclusion of the Froude number in effective drag relations. <i>International Journal of Multiphase Flow</i> , 2020, 127, 103261.	1.6	18
34	Accurate voidage prediction in fluidisation systems for full-scale drinking water pellet softening reactors using data driven models. <i>Journal of Water Process Engineering</i> , 2020, 37, 101481.	2.6	11
35	Sustainable Societal Infrastructures: A Resilient Approach to Prevent Conflicting Claims of Drinking Water and Other Infrastructures. <i>Sustainability</i> , 2020, 12, 785.	1.6	6
36	Life cycle assessment of nutrient recycling from wastewater: A critical review. <i>Water Research</i> , 2020, 173, 115519.	5.3	93

#	ARTICLE	IF	CITATIONS
37	Effects of cold recovery technology on the microbial drinking water quality in unchlorinated distribution systems. <i>Environmental Research</i> , 2020, 183, 109175.	3.7	8
38	A Stochastic Model to Predict Flow, Nutrient and Temperature Changes in a Sewer under Water Conservation Scenarios. <i>Water (Switzerland)</i> , 2020, 12, 1187.	1.2	15
39	Thermal energy recovery from chlorinated drinking water distribution systems: Effect on chlorine and microbial water and biofilm characteristics. <i>Environmental Research</i> , 2020, 187, 109655.	3.7	12
40	An integrated system approach to characterise a drinking water infrastructure system. <i>International Journal of Critical Infrastructures</i> , 2020, 16, 1.	0.1	3
41	Development and application of relevance and reliability criteria for water treatment removal efficiencies of chemicals of emerging concern. <i>Water Research</i> , 2019, 161, 274-287.	5.3	23
42	Rainwater Harvesting for Drinking Water Production: A Sustainable and Cost-Effective Solution in The Netherlands?. <i>Water (Switzerland)</i> , 2019, 11, 511.	1.2	41
43	Sulfonamides removal under different redox conditions and microbial response to sulfonamides stress during riverbank filtration: A laboratory column study. <i>Chemosphere</i> , 2019, 220, 668-677.	4.2	33
44	Improvement of the Richardson-Zaki liquid-solid fluidisation model on the basis of hydraulics. <i>Powder Technology</i> , 2019, 343, 465-478.	2.1	36
45	Risk governance of potential emerging risks to drinking water quality: Analysing current practices. <i>Environmental Science and Policy</i> , 2018, 84, 97-104.	2.4	30
46	Effective removal of bromate in nitrate-reducing anoxic zones during managed aquifer recharge for drinking water treatment: Laboratory-scale simulations. <i>Water Research</i> , 2018, 130, 88-97.	5.3	22
47	Bromate Reduction by Iron(II) during Managed Aquifer Recharge: A Laboratory-Scale Study. <i>Water (Switzerland)</i> , 2018, 10, 370.	1.2	5
48	Nitrogen Recovery from Wastewater: Possibilities, Competition with Other Resources, and Adaptation Pathways. <i>Sustainability</i> , 2018, 10, 4605.	1.6	77
49	An exploration of disinfection by-products formation and governing factors in chlorinated swimming pool water. <i>Journal of Water and Health</i> , 2018, 16, 861-892.	1.1	11
50	Influence of an Extended Domestic Drinking Water System on the Drinking Water Quality. <i>Water (Switzerland)</i> , 2018, 10, 582.	1.2	4
51	Disinfection Methods for Swimming Pool Water: Byproduct Formation and Control. <i>Water (Switzerland)</i> , 2018, 10, 797.	1.2	24
52	Energy recovery from the water cycle: Thermal energy from drinking water. <i>Energy</i> , 2018, 162, 977-987.	4.5	25
53	Amsterdam as a sustainable European metropolis: integration of water, energy and material flows. <i>Urban Water Journal</i> , 2017, 14, 61-68.	1.0	45
54	Decision support for water quality management of contaminants of emerging concern. <i>Journal of Environmental Management</i> , 2017, 193, 360-372.	3.8	28

#	ARTICLE	IF	CITATIONS
55	Development and performance of a parsimonious model to estimate temperature in sewer networks. <i>Urban Water Journal</i> , 2017, 14, 829-838.	1.0	15
56	Effect of residual H ₂ O ₂ from advanced oxidation processes on subsequent biological water treatment: A laboratory batch study. <i>Chemosphere</i> , 2017, 185, 637-646.	4.2	39
57	Development and validation of a drinking water temperature model in domestic drinking water supply systems. <i>Urban Water Journal</i> , 2017, 14, 1031-1037.	1.0	20
58	An experimental study on the influence of water stagnation and temperature change on water quality in a full-scale domestic drinking water system. <i>Water Research</i> , 2017, 123, 761-772.	5.3	125
59	Enhanced Performance of the Eurostat Method for Comprehensive Assessment of Urban Metabolism: A Material Flow Analysis of Amsterdam. <i>Journal of Industrial Ecology</i> , 2017, 21, 887-902.	2.8	47
60	Drivers for performance improvement originating from the Dutch drinking water benchmark. <i>Water Policy</i> , 2016, 18, 1247-1266.	0.7	3
61	Selection and prioritization of mitigation measures to realize climate neutral operation of a water cycle company. <i>Journal of Water and Climate Change</i> , 2016, 7, 29-38.	1.2	6
62	Testing the Robustness of Two Water Distribution System Layouts under Changing Drinking Water Demand. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2016, 142, .	1.3	13
63	Wastewater as a resource: Strategies to recover resources from Amsterdam's wastewater. <i>Resources, Conservation and Recycling</i> , 2016, 113, 53-64.	5.3	139
64	A predictive multi-linear regression model for organic micropollutants, based on a laboratory-scale column study simulating the river bank filtration process. <i>Journal of Hazardous Materials</i> , 2016, 304, 502-511.	6.5	27
65	The fate of H ₂ O ₂ during managed aquifer recharge: A residual from advanced oxidation processes for drinking water production. <i>Chemosphere</i> , 2016, 148, 263-269.	4.2	14
66	The effect of redox conditions and adaptation time on organic micropollutant removal during river bank filtration: A laboratory-scale column study. <i>Science of the Total Environment</i> , 2016, 544, 309-318.	3.9	57
67	The effect of feed water dissolved organic carbon concentration and composition on organic micropollutant removal and microbial diversity in soil columns simulating river bank filtration. <i>Chemosphere</i> , 2016, 144, 932-939.	4.2	32
68	Shower heat exchanger: reuse of energy from heated drinking water for CO ₂ reduction. <i>Drinking Water Engineering and Science</i> , 2016, 9, 1-8.	0.8	11
69	A laboratory-scale column study comparing organic micropollutant removal and microbial diversity for two soil types. <i>Science of the Total Environment</i> , 2015, 536, 632-638.	3.9	24
70	Health risk assessment of organic micropollutants in greywater for potable reuse. <i>Water Research</i> , 2015, 72, 186-198.	5.3	63
71	Robustness of the Drinking Water Distribution Network under Changing Future Demand. <i>Procedia Engineering</i> , 2014, 89, 339-346.	1.2	11
72	Energy in the urban water cycle: Actions to reduce the total expenditure of fossil fuels with emphasis on heat reclamation from urban water. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 30, 808-820.	8.2	75

#	ARTICLE	IF	CITATIONS
73	An experimental study on the spray characteristics of residential sprinklers under low-flow and low-pressure conditions. <i>Fire Safety Journal</i> , 2014, 68, 30-40.	1.4	16
74	Human health risk assessment of the mixture of pharmaceuticals in Dutch drinking water and its sources based on frequent monitoring data. <i>Science of the Total Environment</i> , 2014, 496, 54-62.	3.9	128
75	Sorption and biodegradation of organic micropollutants during river bank filtration: A laboratory column study. <i>Water Research</i> , 2014, 52, 231-241.	5.3	138
76	Coping with climate change in Amsterdam – a watercycle perspective. <i>Journal of Water and Climate Change</i> , 2014, 5, 61-69.	1.2	10
77	Drinking Water Temperature Modelling in Domestic Systems. <i>Procedia Engineering</i> , 2014, 89, 143-150.	1.2	14
78	Use of the Threshold of Toxicological Concern (TTC) approach for deriving target values for drinking water contaminants. <i>Water Research</i> , 2013, 47, 1666-1678.	5.3	65
79	Towards a climate neutral water cycle. <i>Journal of Water and Climate Change</i> , 2012, 3, 163-170.	1.2	10
80	Fluidized ion exchange (FIX) to control NOM fouling in ultrafiltration. <i>Desalination</i> , 2009, 236, 334-341.	4.0	49
81	Quantitative biofouling diagnosis in full scale nanofiltration and reverse osmosis installations. <i>Water Research</i> , 2008, 42, 4856-4868.	5.3	207
82	Is direct nanofiltration with air flux an alternative for household water production for Amsterdam?. <i>Desalination</i> , 2003, 152, 263-269.	4.0	6
83	Long term capacity of biological activated carbon filtration for organics removal. <i>Water Science and Technology: Water Supply</i> , 2002, 2, 139-146.	1.0	7
84	The scaling potential of barium sulphate in reverse osmosis systems. <i>Journal of Membrane Science</i> , 2002, 197, 251-268.	4.1	61
85	Scaling control of RO membranes and direct treatment of surface water. <i>Desalination</i> , 2000, 132, 109-119.	4.0	37
86	Retention of herbicides and pesticides in relation to aging of RO membranes. <i>Desalination</i> , 2000, 132, 189-193.	4.0	39
87	RO treatment: selection of a pretreatment scheme based on fouling characteristics and operating conditions based on environmental impact. <i>Desalination</i> , 2000, 127, 89-101.	4.0	49
88	Stable barium sulphate supersaturation in reverse osmosis. <i>Journal of Membrane Science</i> , 2000, 179, 53-68.	4.1	38
89	BaSO ₄ solubility prediction in reverse osmosis membrane systems. <i>Journal of Membrane Science</i> , 1999, 159, 47-59.	4.1	41
90	Electrodialysis as an alternative for reverse osmosis in an integrated membrane system. <i>Desalination</i> , 1998, 117, 159-172.	4.0	37

#	ARTICLE	IF	CITATIONS
91	Enhanced surface water treatment by ultrafiltration. <i>Desalination</i> , 1998, 119, 113-125.	4.0	19
92	Reduction of regeneration salt requirement and waste disposal in an ion exchange process for nitrate removal from ground water. <i>Waste Management</i> , 1989, 9, 203-210.	3.7	12
93	Nitrate removal from ground water – use of a nitrate selective resin and a low concentrated regenerant. <i>Water, Air, and Soil Pollution</i> , 1988, 37, 41-53.	1.1	43
94	Effect of hydraulic residence time on microbial sulfide production in an upflow sludge blanket denitrification reactor fed with methanol. <i>Applied Microbiology and Biotechnology</i> , 1988, 28, 493-499.	1.7	13
95	Combined ion exchange/biological denitrification for nitrate removal from ground water under different process conditions. <i>Water Research</i> , 1988, 22, 679-684.	5.3	67
96	Nitrate removal from ground water. <i>Water Research</i> , 1987, 21, 989-997.	5.3	77
97	Denitrification with methanol in the presence of high salt concentrations and at high pH levels. <i>Applied Microbiology and Biotechnology</i> , 1987, 27, 199-205.	1.7	45
98	Thermal Energy Recovery from Drinking Water. , 0, , .		0