

# Luuk C Rietveld

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

76  
papers

1,378  
citations

19  
h-index

35  
g-index

78  
ext. papers

1,758  
ext. citations

6.4  
avg, IF

5.11  
L-index

#	Paper	IF	Citations
76	Endogeneity in water use behaviour across case studies of household water treatment adoption in developing countries. <i>World Development Perspectives</i> , <b>2022</b> , 25, 100385	1.7	1
75	Oil-in-water emulsion separation: Fouling of alumina membranes with and without a silicon carbide deposition in constant flux filtration mode.. <i>Water Research</i> , <b>2022</b> , 216, 118267	12.5	2
74	Unraveling competition versus adsorbability of dissolved organic matter against organic micropollutants onto activated carbon. <i>Separation and Purification Technology</i> , <b>2022</b> , 292, 120942	8.3	0
73	State-of-the-Art Ceramic Membranes for Oily Wastewater Treatment: Modification and Application. <i>Membranes</i> , <b>2021</b> , 11,	3.8	2
72	Socio-Economic and Psychological Determinants for Household Water Treatment Practices in Indigenous Rural Indonesia. <i>Frontiers in Water</i> , <b>2021</b> , 3,	2.6	3
71	Arsenic removal from iron-containing groundwater by delayed aeration in dual-media sand filters. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 411, 124823	12.8	7
70	Comparative study of low-cost fluoride removal by layered double hydroxides, geopolymers, softening pellets and struvite. <i>Environmental Technology (United Kingdom)</i> , <b>2021</b> , 1-9	2.6	1
69	Integrating biological As(III) oxidation with Fe(0) electrocoagulation for arsenic removal from groundwater. <i>Water Research</i> , <b>2021</b> , 188, 116531	12.5	9
68	Water Use Efficiency: A Review of Contextual and Behavioral Factors. <i>Frontiers in Water</i> , <b>2021</b> , 3,	2.6	1
67	Anoxic storage to promote arsenic removal with groundwater-native iron. <i>Water Research</i> , <b>2021</b> , 202, 117404	12.5	5
66	How properties of low molecular weight model competitors impact organic micropollutant adsorption onto activated carbon at realistically asymmetric concentrations. <i>Water Research</i> , <b>2021</b> , 202, 117443	12.5	5
65	Financial, institutional, environmental, technical, and social (FIETS) aspects of water, sanitation, and hygiene conditions in indigenous - rural Indonesia. <i>BMC Public Health</i> , <b>2021</b> , 21, 1723	4.1	1
64	Integration of oxalic acid chelation and Fenton process for synergistic relaxation-oxidation of persistent gel-like fouling of ceramic nanofiltration membranes. <i>Journal of Membrane Science</i> , <b>2021</b> , 636, 119553	9.6	1
63	Simultaneous removal of ammonium ions and sulfamethoxazole by ozone regenerated high silica zeolites. <i>Water Research</i> , <b>2021</b> , 188, 116472	12.5	10
62	Start-up of bench-scale biofilters for manganese removal under tropical conditions: a comparative study using virgin pumice, silica sand, and anthracite filter media. <i>Environmental Science: Water Research and Technology</i> , <b>2021</b> , 7, 1504-1515	4.2	1
61	Projecting competition between 2-methylisoborneol and natural organic matter in adsorption onto activated carbon from ozonated source waters. <i>Water Research</i> , <b>2020</b> , 173, 115574	12.5	19
60	Design methodology to determine the water quality monitoring strategy of a surface water treatment plant in the Netherlands. <i>Drinking Water Engineering and Science</i> , <b>2020</b> , 13, 1-13	2	

59	Fluoride removal by Ca-Al-CO layered double hydroxides at environmentally-relevant concentrations. <i>Chemosphere</i> , <b>2020</b> , 243, 125307	8.4	18
58	The adsorption mechanisms of organic micropollutants on high-silica zeolites causing S-shaped adsorption isotherms: An experimental and Monte Carlo simulation study. <i>Chemical Engineering Journal</i> , <b>2020</b> , 389, 123968	14.7	22
57	Highly permeable silicon carbide-alumina ultrafiltration membranes for oil-in-water filtration produced with low-pressure chemical vapor deposition. <i>Separation and Purification Technology</i> , <b>2020</b> , 253, 117496	8.3	19
56	The effect of socio-economic characteristics on the use of household water treatment via psychosocial factors: a mediation analysis. <i>Hydrological Sciences Journal</i> , <b>2020</b> , 65, 2350-2358	3.5	8
55	Autochthonous tropical groundwater bacteria involved in manganese(II) oxidation and removal. <i>Environmental Science: Water Research and Technology</i> , <b>2020</b> , 6, 3132-3141	4.2	2
54	A Bayesian Belief Network model to link sanitary inspection data to drinking water quality in a medium resource setting in rural Indonesia. <i>Scientific Reports</i> , <b>2020</b> , 10, 18867	4.9	4
53	Adsorption of triclosan, trichlorophenol and phenol by high-silica zeolites: Adsorption efficiencies and mechanisms. <i>Separation and Purification Technology</i> , <b>2020</b> , 235, 116152	8.3	50
52	Natural organic matter-cations complexation and its impact on water treatment: A critical review. <i>Water Research</i> , <b>2019</b> , 160, 130-147	12.5	80
51	Understanding the effect of socio-economic characteristics and psychosocial factors on household water treatment practices in rural Nepal using Bayesian Belief Networks. <i>International Journal of Hygiene and Environmental Health</i> , <b>2019</b> , 222, 847-855	6.9	18
50	Water purification in a solar reactor incorporating TiO <sub>2</sub> coated mesh structures. <i>Water Science and Technology: Water Supply</i> , <b>2019</b> , 19, 1718-1725	1.4	1
49	Characterization of the bacterial community in shower water before and after chlorination. <i>Journal of Water and Health</i> , <b>2018</b> , 16, 233-243	2.2	4
48	Socio-environmental drivers of sustainable adoption of household water treatment in developing countries. <i>Npj Clean Water</i> , <b>2018</b> , 1,	11.2	12
47	High-silica zeolites for adsorption of organic micro-pollutants in water treatment: A review. <i>Water Research</i> , <b>2018</b> , 144, 145-161	12.5	208
46	Mitigation Potential of Sanitation Infrastructure on Groundwater Contamination by Nitrate in Maputo. <i>Sustainability</i> , <b>2018</b> , 10, 858	3.6	5
45	Natural recovery of infiltration capacity in simulated bank filtration of highly turbid waters. <i>Water Research</i> , <b>2018</b> , 147, 299-310	12.5	6
44	Electrochemical Oxidation of Organic Pollutants Powered by a Silicon-Based Solar Cell. <i>ACS Omega</i> , <b>2018</b> , 3, 14392-14398	3.9	3
43	Atmospheric pressure atomic layer deposition for tight ceramic nanofiltration membranes: Synthesis and application in water purification. <i>Journal of Membrane Science</i> , <b>2017</b> , 528, 163-170	9.6	59
42	Development and performance of a parsimonious model to estimate temperature in sewer networks. <i>Urban Water Journal</i> , <b>2017</b> , 14, 829-838	2.3	12

41	Riverbank filtration for the treatment of highly turbid Colombian rivers. <i>Drinking Water Engineering and Science</i> , <b>2017</b> , 10, 13-26	2	7
40	Pharmaceutical adsorption from the primary and secondary effluents of a wastewater treatment plant by powdered activated carbon. <i>Desalination and Water Treatment</i> , <b>2016</b> , 57, 21304-21313		5
39	Influence of activated carbon preloading by EfOM fractions from treated wastewater on adsorption of pharmaceutically active compounds. <i>Chemosphere</i> , <b>2016</b> , 150, 49-56	8.4	14
38	Photoelectrocatalytic oxidation of phenol for water treatment using a BiVO <sub>4</sub> thin-film photoanode. <i>Journal of Materials Research</i> , <b>2016</b> , 31, 2627-2639	2.5	12
37	Multi-criteria analysis applied to the selection of drinking water sources in developing countries: a case study of Cali, Colombia. <i>Journal of Water Sanitation and Hygiene for Development</i> , <b>2016</b> , 6, 401-413	1.5	1
36	Integrating powdered activated carbon into wastewater tertiary filter for micro-pollutant removal. <i>Journal of Environmental Management</i> , <b>2016</b> , 177, 45-52	7.9	15
35	Effects of Temperature and Pressure on the Thermolysis of Morpholine, Ethanolamine, Cyclohexylamine, Dimethylamine, and 3-Methoxypropylamine in Superheated Steam. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2015</b> , 54, 2606-2612	3.9	7
34	Optimisation of parameters in a solar light-induced photoelectrocatalytic process with a TiO <sub>2</sub> /Ti composite electrode prepared by paint-thermal decomposition. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2015</b> , 305, 83-92	4.7	7
33	Direct water reclamation from sewage using ceramic tight ultra- and nanofiltration. <i>Separation and Purification Technology</i> , <b>2015</b> , 147, 329-336	8.3	30
32	Pipe failure predictions in drinking water systems using satellite observations. <i>Structure and Infrastructure Engineering</i> , <b>2015</b> , 11, 1102-1111	2.9	10
31	Electrochemically active biofilm and photoelectrocatalytic regeneration of the titanium dioxide composite electrode for advanced oxidation in water treatment. <i>Electrochimica Acta</i> , <b>2015</b> , 182, 604-612	6.7	10
30	Reuse of spent granular activated carbon for organic micro-pollutant removal from treated wastewater. <i>Journal of Environmental Management</i> , <b>2015</b> , 160, 98-104	7.9	10
29	Continuous and discontinuous pressure assisted osmosis (PAO). <i>Journal of Membrane Science</i> , <b>2015</b> , 476, 182-193	9.6	27
28	Hydraulically irreversible fouling on ceramic MF/UF membranes: Comparison of fouling indices, foulant composition and irreversible pore narrowing. <i>Separation and Purification Technology</i> , <b>2015</b> , 147, 303-310	8.3	33
27	Pilot studies on discolouration loose deposits\build-up. <i>Urban Water Journal</i> , <b>2015</b> , 12, 631-638	2.3	1
26	Anionic exchange for NOM removal and the effects on micropollutant adsorption competition on activated carbon. <i>Separation and Purification Technology</i> , <b>2014</b> , 129, 25-31	8.3	37
25	Zwitterions as alternative draw solutions in forward osmosis for application in wastewater reclamation. <i>Journal of Membrane Science</i> , <b>2014</b> , 460, 82-90	9.6	56
24	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> , <b>2014</b> , 30, 808-820	16.2	60

23	Tight ceramic UF membrane as RO pre-treatment: the role of electrostatic interactions on phosphate rejection. <i>Water Research</i> , <b>2014</b> , 48, 498-507	12.5	41
22	Thermolysis of Morpholine in Water and Superheated Steam. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 8012-8017	3.9	6
21	Effect of PAC dosage in a pilot-scale PAC-MBR treating micro-polluted surface water. <i>Bioresource Technology</i> , <b>2014</b> , 154, 290-6	11	38
20	The impact of EfOM, NOM and cations on phosphate rejection by tight ceramic ultrafiltration. <i>Separation and Purification Technology</i> , <b>2014</b> , 132, 289-294	8.3	15
19	A novel acoustic imaging tool for monitoring the state of rapid sand filters. <i>Water Science and Technology: Water Supply</i> , <b>2014</b> , 14, 107-118	1.4	0
18	Index of Joint Condition for PVC push-fit joints. <i>Water Science and Technology: Water Supply</i> , <b>2014</b> , 14, 857-865	1.4	
17	Quantitative non-destructive evaluation of push-fit joints. <i>Urban Water Journal</i> , <b>2014</b> , 11, 657-667	2.3	3
16	A bottom-up approach to estimate dry weather flow in minor sewer networks. <i>Water Science and Technology</i> , <b>2014</b> , 69, 1059-66	2.2	6
15	EDTA: a synthetic draw solute for forward osmosis. <i>Water Science and Technology</i> , <b>2014</b> , 70, 1677-82	2.2	12
14	Comparison of the effects of extracellular and intracellular organic matter extracted from <i>Microcystis aeruginosa</i> on ultrafiltration membrane fouling: dynamics and mechanisms. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 14549-57	10.3	84
13	Role of Metal Surface Catalysis in the Thermolysis of Morpholine and Ethanolamine under Superheater Conditions. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 19392-19397	3.9	3
12	The Influence of the Removal of Specific NOM Compounds by Anion Exchange on Ozone Demand, Disinfection Capacity, and Bromate Formation. <i>Ozone: Science and Engineering</i> , <b>2013</b> , 35, 283-294	2.4	1
11	Biological active groundwater filters: exploiting natural diversity. <i>Water Science and Technology: Water Supply</i> , <b>2013</b> , 13, 29-35	1.4	1
10	Failure mechanisms and condition assessment of PVC push-fit joints in drinking water networks <b>2013</b> , 62, 78-85		8
9	Flow cytometry and adenosine tri-phosphate analysis: alternative possibilities to evaluate major bacteriological changes in drinking water treatment and distribution systems. <i>Water Research</i> , <b>2012</b> , 46, 4665-76	12.5	82
8	Influence of natural organic matter on the screening of pharmaceuticals in water by using liquid chromatography with full scan mass spectrometry. <i>Analytica Chimica Acta</i> , <b>2011</b> , 700, 114-25	6.6	19
7	Wastewater reuse through RO: a case study of four RO plants producing industrial water. <i>Desalination and Water Treatment</i> , <b>2011</b> , 34, 408-415		8
6	Water recovery from sewage using forward osmosis. <i>Water Science and Technology</i> , <b>2011</b> , 64, 1443-9	2.2	72

5	Control-design methodology for drinking-water treatment processes. <i>Water Science and Technology: Water Supply</i> , <b>2010</b> , 10, 121-127	1.4	4
4	Model-based pH monitor for sensor assessment. <i>Water Science and Technology</i> , <b>2009</b> , 60, 709-15	2.2	2
3	Dynamic Modeling of Bentazon Removal by Pseudo-Moving-Bed Granular Activated Carbon Filtration Applied to Full-Scale Water Treatment. <i>Journal of Environmental Engineering, ASCE</i> , <b>2009</b> , 135, 243-249	2	2
2	Integrated simulation of drinking water treatment <b>2008</b> , 57, 133-141		7
1	Control of the fluidised bed in the pellet softening process. <i>Chemical Engineering Science</i> , <b>2008</b> , 63, 1390-1400	23	23