Luuk C Rietveld

List of Publications by Citations

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	High-silica zeolites for adsorption of organic micro-pollutants in water treatment: A review. *Water Research*, **2018**, 144, 145-161	12.5	208
75	Comparison of the effects of extracellular and intracellular organic matter extracted from Microcystis aeruginosa on ultrafiltration membrane fouling: dynamics and mechanisms. *Environmental Science & Technology*, **2014**, 48, 14549-57	10.3	84
74	Flow cytometry and adenosine tri-phosphate analysis: alternative possibilities to evaluate major bacteriological changes in drinking water treatment and distribution systems. *Water Research*, **2012** , 46, 4665-76	12.5	82
73	Natural organic matter-cations complexation and its impact on water treatment: A critical review. *Water Research*, **2019**, 160, 130-147	12.5	80
72	Water recovery from sewage using forward osmosis. *Water Science and Technology*, **2011**, 64, 1443-9	2.2	72
71	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	16.2	60
70	Atmospheric pressure atomic layer deposition for tight ceramic nanofiltration membranes: Synthesis and application in water purification. *Journal of Membrane Science*, **2017**, 528, 163-170	9.6	59
69	Zwitterions as alternative draw solutions in forward osmosis for application in wastewater reclamation. *Journal of Membrane Science*, **2014**, 460, 82-90	9.6	56
68	Adsorption of triclosan, trichlorophenol and phenol by high-silica zeolites: Adsorption efficiencies and mechanisms. *Separation and Purification Technology*, **2020**, 235, 116152	8.3	50
67	Tight ceramic UF membrane as RO pre-treatment: the role of electrostatic interactions on phosphate rejection. *Water Research*, **2014**, 48, 498-507	12.5	41
66	Effect of PAC dosage in a pilot-scale PAC-MBR treating micro-polluted surface water. *Bioresource Technology*, **2014**, 154, 290-6	11	38
65	Anionic exchange for NOM removal and the effects on micropollutant adsorption competition on activated carbon. *Separation and Purification Technology*, **2014**, 129, 25-31	8.3	37
64	Hydraulically irreversible fouling on ceramic MF/UF membranes: Comparison of fouling indices, foulant composition and irreversible pore narrowing. *Separation and Purification Technology*, **2015**, 147, 303-310	8.3	33
63	Direct water reclamation from sewage using ceramic tight ultra- and nanofiltration. *Separation and Purification Technology*, **2015**, 147, 329-336	8.3	30
62	Continuous and discontinuous pressure assisted osmosis (PAO). *Journal of Membrane Science*, **2015**, 476, 182-193	9.6	27
61	Control of the fluidised bed in the pellet softening process. *Chemical Engineering Science*, **2008**, 63, 1390-1400	4.4	23
60	The adsorption mechanisms of organic micropollutants on high-silica zeolites causing S-shaped adsorption isotherms: An experimental and Monte Carlo simulation study. *Chemical Engineering Journal*, **2020**, 389, 123968	14.7	22

59	Projecting competition between 2-methylisoborneol and natural organic matter in adsorption onto activated carbon from ozonated source waters. *Water Research*, **2020**, 173, 115574	12.5	19
58	Influence of natural organic matter on the screening of pharmaceuticals in water by using liquid chromatography with full scan mass spectrometry. *Analytica Chimica Acta*, **2011**, 700, 114-25	6.6	19
57	Highly permeable silicon carbide-alumina ultrafiltration membranes for oil-in-water filtration produced with low-pressure chemical vapor deposition. *Separation and Purification Technology*, **2020**, 253, 117496	8.3	19
56	Understanding the effect of socio-economic characteristics and psychosocial factors on household water treatment practices in rural Nepal using Bayesian Belief Networks. *International Journal of Hygiene and Environmental Health*, **2019**, 222, 847-855	6.9	18
55	Fluoride removal by Ca-Al-CO layered double hydroxides at environmentally-relevant concentrations. *Chemosphere*, **2020**, 243, 125307	8.4	18
54	The impact of EfOM, NOM and cations on phosphate rejection by tight ceramic ultrafiltration. *Separation and Purification Technology*, **2014**, 132, 289-294	8.3	15
53	Integrating powdered activated carbon into wastewater tertiary filter for micro-pollutant removal. *Journal of Environmental Management*, **2016**, 177, 45-52	7.9	15
52	Influence of activated carbon preloading by EfOM fractions from treated wastewater on adsorption of pharmaceutically active compounds. *Chemosphere*, **2016**, 150, 49-56	8.4	14
51	Development and performance of a parsimonious model to estimate temperature in sewer networks. *Urban Water Journal*, **2017**, 14, 829-838	2.3	12
50	Socio-environmental drivers of sustainable adoption of household water treatment in developing countries. *Npj Clean Water*, **2018**, 1,	11.2	12
49	EDTA: a synthetic draw solute for forward osmosis. *Water Science and Technology*, **2014**, 70, 1677-82	2.2	12
48	Photoelectrocatalytic oxidation of phenol for water treatment using a BiVO4 thin-film photoanode. *Journal of Materials Research*, **2016**, 31, 2627-2639	2.5	12
47	Pipe failure predictions in drinking water systems using satellite observations. *Structure and Infrastructure Engineering*, **2015**, 11, 1102-1111	2.9	10
46	Electrochemically active biofilm and photoelectrocatalytic regeneration of the titanium dioxide composite electrode for advanced oxidation in water treatment. *Electrochimica Acta*, **2015**, 182, 604-612	6.7	10
45	Reuse of spent granular activated carbon for organic micro-pollutant removal from treated wastewater. *Journal of Environmental Management*, **2015**, 160, 98-104	7.9	10
44	Simultaneous removal of ammonium ions and sulfamethoxazole by ozone regenerated high silica zeolites. *Water Research*, **2021**, 188, 116472	12.5	10
43	Integrating biological As(III) oxidation with Fe(0) electrocoagulation for arsenic removal from groundwater. *Water Research*, **2021**, 188, 116531	12.5	9
42	Failure mechanisms and condition assessment of PVC push-fit joints in drinking water networks **2013**, 62, 78-85		8

41	Wastewater reuse through RO: a case study of four RO plants producing industrial water. *Desalination and Water Treatment*, **2011**, 34, 408-415		8
40	The effect of socio-economic characteristics on the use of household water treatment via psychosocial factors: a mediation analysis. *Hydrological Sciences Journal*, **2020**, 65, 2350-2358	3.5	8
39	Effects of Temperature and Pressure on the Thermolysis of Morpholine, Ethanolamine, Cyclohexylamine, Dimethylamine, and 3-Methoxypropylamine in Superheated Steam. *Industrial & Engineering Chemistry Research*, **2015**, 54, 2606-2612	3.9	7
38	Optimisation of parameters in a solar light-induced photoelectrocatalytic process with a TiO2/Ti composite electrode prepared by paint-thermal decomposition. *Journal of Photochemistry and Photobiology A: Chemistry*, **2015**, 305, 83-92	4.7	7
37	Integrated simulation of drinking water treatment **2008**, 57, 133-141		7
36	Riverbank filtration for the treatment of highly turbid Colombian rivers. *Drinking Water Engineering and Science*, **2017**, 10, 13-26	2	7
35	Arsenic removal from iron-containing groundwater by delayed aeration in dual-media sand filters. *Journal of Hazardous Materials*, **2021**, 411, 124823	12.8	7
34	Thermolysis of Morpholine in Water and Superheated Steam. *Industrial & Engineering Chemistry Research*, **2014**, 53, 8012-8017	3.9	6
33	A bottom-up approach to estimate dry weather flow in minor sewer networks. *Water Science and Technology*, **2014**, 69, 1059-66	2.2	6
32	Natural recovery of infiltration capacity in simulated bank filtration of highly turbid waters. *Water Research*, **2018**, 147, 299-310	12.5	6
31	Pharmaceutical adsorption from the primary and secondary effluents of a wastewater treatment plant by powdered activated carbon. *Desalination and Water Treatment*, **2016**, 57, 21304-21313		5
30	Mitigation Potential of Sanitation Infrastructure on Groundwater Contamination by Nitrate in Maputo. *Sustainability*, **2018**, 10, 858	3.6	5
29	Anoxic storage to promote arsenic removal with groundwater-native iron. *Water Research*, **2021**, 202, 117404	12.5	5
28	How properties of low molecular weight model competitors impact organic micropollutant adsorption onto activated carbon at realistically asymmetric concentrations. *Water Research*, **2021**, 202, 117443	12.5	5
27	Characterization of the bacterial community in shower water before and after chlorination. *Journal of Water and Health*, **2018**, 16, 233-243	2.2	4
26	Control-design methodology for drinking-water treatment processes. *Water Science and Technology: Water Supply*, **2010**, 10, 121-127	1.4	4
25	A Bayesian Belief Network model to link sanitary inspection data to drinking water quality in a medium resource setting in rural Indonesia. *Scientific Reports*, **2020**, 10, 18867	4.9	4
24	Quantitative non-destructive evaluation of push-fit joints. *Urban Water Journal*, **2014**, 11, 657-667	2.3	3

23	Role of Metal Surface Catalysis in the Thermolysis of Morpholine and Ethanolamine under Superheater Conditions. *Industrial & Engineering Chemistry Research*, **2014**, 53, 19392-19397	3.9	3
22	Socio-Economic and Psychological Determinants for Household Water Treatment Practices in Indigenous Rural Indonesia. *Frontiers in Water*, **2021**, 3,	2.6	3
21	Electrochemical Oxidation of Organic Pollutants Powered by a Silicon-Based Solar Cell. *ACS Omega*, **2018**, 3, 14392-14398	3.9	3
20	Model-based pH monitor for sensor assessment. *Water Science and Technology*, **2009**, 60, 709-15	2.2	2
19	Dynamic Modeling of Bentazon Removal by Pseudo-Moving-Bed Granular Activated Carbon Filtration Applied to Full-Scale Water Treatment. *Journal of Environmental Engineering, ASCE*, **2009**, 135, 243-249	2	2
18	State-of-the-Art Ceramic Membranes for Oily Wastewater Treatment: Modification and Application. *Membranes*, **2021**, 11,	3.8	2
17	Autochthonous tropical groundwater bacteria involved in manganese(II) oxidation and removal. *Environmental Science: Water Research and Technology*, **2020**, 6, 3132-3141	4.2	2
16	Oil-in-water emulsion separation: Fouling of alumina membranes with and without a silicon carbide deposition in constant flux filtration mode.. *Water Research*, **2022**, 216, 118267	12.5	2
15	Water purification in a solar reactor incorporating TiO2 coated mesh structures. *Water Science and Technology: Water Supply*, **2019**, 19, 1718-1725	1.4	1
14	The Influence of the Removal of Specific NOM Compounds by Anion Exchange on Ozone Demand, Disinfection Capacity, and Bromate Formation. *Ozone: Science and Engineering*, **2013**, 35, 283-294	2.4	1
13	Biological active groundwater filters: exploiting natural diversity. *Water Science and Technology: Water Supply*, **2013**, 13, 29-35	1.4	1
12	Pilot studies on discolouration loose deposits build-up. *Urban Water Journal*, **2015**, 12, 631-638	2.3	1
11	Endogeneity in water use behaviour across case studies of household water treatment adoption in developing countries. *World Development Perspectives*, **2022**, 25, 100385	1.7	1
10	Comparative study of low-cost fluoride removal by layered double hydroxides, geopolymers, softening pellets and struvite. *Environmental Technology (United Kingdom)*, **2021**, 1-9	2.6	1
9	Multi-criteria analysis applied to the selection of drinking water sources in developing countries: a case study of Cali, Colombia. *Journal of Water Sanitation and Hygiene for Development*, **2016**, 6, 401-413	1.5	1
8	Water Use Efficiency: A Review of Contextual and Behavioral Factors. *Frontiers in Water*, **2021**, 3,	2.6	1
7	Financial, institutional, environmental, technical, and social (FIETS) aspects of water, sanitation, and hygiene conditions in indigenous - rural Indonesia. *BMC Public Health*, **2021**, 21, 1723	4.1	1
6	Integration of oxalic acid chelation and Fenton process for synergistic relaxation-oxidation of persistent gel-like fouling of ceramic nanofiltration membranes. *Journal of Membrane Science*, **2021**, 636, 119553	9.6	1

5	Start-up of bench-scale biofilters for manganese removal under tropical conditions: a comparative study using virgin pumice, silica sand, and anthracite filter media. *Environmental Science: Water Research and Technology*, **2021**, 7, 1504-1515	4.2	1
4	A novel acoustic imaging tool for monitoring the state of rapid sand filters. *Water Science and Technology: Water Supply*, **2014**, 14, 107-118	1.4	0
3	Unraveling competition versus adsorbability of dissolved organic matter against organic micropollutants onto activated carbon. *Separation and Purification Technology*, **2022**, 292, 120942	8.3	0
2	Index of Joint Condition for PVC push-fit joints. *Water Science and Technology: Water Supply*, **2014**, 14, 857-865	1.4	
1	Design methodology to determine the water quality monitoring strategy of a surface water treatment plant in the Netherlands. *Drinking Water Engineering and Science*, **2020**, 13, 1-13	2	