Henrik R Andersen

List of Publications by Year
in descending order

118 papers	7,816 citations	50170 46 h-index	51492 86 g-index
119 all docs	119 docs citations	119 times ranked	7865 citing authors

#	Article	IF	Citations
1	Resveratrol, a Polyphenolic Phytoalexin Present in Red Wine, Enhances Expression and Activity of Endothelial Nitric Oxide Synthase. Circulation, 2002, 106, 1652-1658.	1.6	605
2	Fate of Estrogens in a Municipal Sewage Treatment Plant. Environmental Science & Technology, 2003, 37, 4021-4026.	4.6	495
3	Removal of Estrogens in Municipal Wastewater Treatment under Aerobic and Anaerobic Conditions:Â Consequences for Plant Optimization. Environmental Science & Technology, 2004, 38, 3047-3055.	4.6	441
4	Determination of Estrogens in Sludge and Sediments by Liquid Extraction and GC/MS/MS. Analytical Chemistry, 2002, 74, 3498-3504.	3.2	361
5	Irrigation of treated wastewater in Braunschweig, Germany: An option to remove pharmaceuticals and musk fragrances. Chemosphere, 2007, 66, 894-904.	4.2	359
6	Performance of secondary wastewater treatment methods for the removal of contaminants of emerging concern implicated in crop uptake and antibiotic resistance spread: A review. Science of the Total Environment, 2019, 648, 1052-1081.	3.9	328
7	Determination of sorption of seventy-five pharmaceuticals in sewage sludge. Water Research, 2011, 45, 4470-4482.	5.3	233
8	Biodegradation of pharmaceuticals in hospital wastewater by staged Moving Bed Biofilm Reactors (MBBR). Water Research, 2015, 83, 293-302.	5.3	229
9	Fate of Carbamazepine during Water Treatment. Environmental Science & Technology, 2009, 43, 6256-6261.	4.6	202
10	Assessment of the importance of sorption for steroid estrogens removal during activated sludge treatment. Chemosphere, 2005, 61, 139-146.	4.2	167
11	Suspended biofilm carrier and activated sludge removal of acidic pharmaceuticals. Water Research, 2012, 46, 1167-1175.	5.3	164
12	Ecotoxicity of carbamazepine and its UV photolysis transformation products. Science of the Total Environment, 2013, 443, 870-876.	3.9	159
13	Removal of Antibiotics in Biological Wastewater Treatment Systemsâ€"A Critical Assessment Using the Activated Sludge Modeling Framework for Xenobiotics (ASM-X). Environmental Science & Technology, 2016, 50, 10316-10334.	4.6	136
14	Biofilm Thickness Influences Biodiversity in Nitrifying MBBRsâ€"Implications on Micropollutant Removal. Environmental Science & Technology, 2016, 50, 9279-9288.	4.6	135
15	Required ozone doses for removing pharmaceuticals from wastewater effluents. Science of the Total Environment, 2013, 456-457, 42-49.	3.9	117
16	Ozonation for source treatment of pharmaceuticals in hospital wastewater â€“ Ozone lifetime and required ozone dose. Chemical Engineering Journal, 2016, 290, 507-514.	6.6	116
17	Reductive degradation of perfluorinated compounds in water using Mg-aminoclay coated nanoscale zero valent iron. Chemical Engineering Journal, 2015, 262, 133-139.	6.6	108
18	Development of copepod nauplii to copepoditesâ€"a parameter for chronic toxicity including endocrine disruption. Environmental Toxicology and Chemistry, 2001, 20, 2821-2829.	2.2	104

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19	Selective removal of heavy metal ions by disulfide linked polymer networks. Journal of Hazardous Materials, 2017, 332, 140-148.	6.5	101
20	Greywater pollution variability and loadings. Ecological Engineering, 2009, 35, 661-669.	1.6	100
21	Biological removal of pharmaceuticals from hospital wastewater in a pilot-scale staged moving bed biofilm reactor (MBBR) utilising nitrifying and denitrifying processes. Bioresource Technology, 2018, 267, 677-687.	4.8	98
22	Bio-electro-Fenton process for the degradation of Non-Steroidal Anti-Inflammatory Drugs in wastewater. Chemical Engineering Journal, 2018, 338, 401-410.	6.6	96
23	Removal of pharmaceuticals in conventionally treated wastewater by a polishing moving bed biofilm reactor (MBBR) with intermittent feeding. Bioresource Technology, 2017, 236, 77-86.	4.8	93
24	Diffusion and sorption of organic micropollutants in biofilms with varying thicknesses. Water Research, 2017, 123, 388-400.	5.3	87
25	A Parameter for Detecting Estrogenic Exposure in the Copepod Acartia tonsa. Ecotoxicology and Environmental Safety, 1999, 44, 56-61.	2.9	84
26	Effect of pH on the formation of disinfection byproducts in swimming pool water â€“ Is less THM better?. Water Research, 2012, 46, 6399-6409.	5.3	83
27	Biodegradation of pharmaceuticals in hospital wastewater by a hybrid biofilm and activated sludge system (Hybas). Science of the Total Environment, 2015, 530-531, 383-392.	3.9	83
28	Substance flow analysis of parabens in Denmark complemented with a survey of presence and frequency in various commodities. Journal of Hazardous Materials, 2008, 156, 240-259.	6.5	76
29	Sorption of Perfluorinated Compounds onto different types of sewage sludge and assessment of its importance during wastewater treatment. Chemosphere, 2014, 111, 405-411.	4.2	70
30	Occurrence and reduction of pharmaceuticals in the water phase at Swedish wastewater treatment plants. Water Science and Technology, 2012, 66, 783-791.	1.2	69
31	Photolytic removal of DBPs by medium pressure UV in swimming pool water. Science of the Total Environment, 2013, 443, 850-856.	3.9	69
32	Removal of pharmaceuticals in biologically treated wastewater by chlorine dioxide or peracetic acid. Environmental Technology (United Kingdom), 2012, 33, 1041-1047.	1.2	68
33	Endocrine potency of wastewater: Contents of endocrine disrupting chemicals and effects measured by in vivo and in vitro assays. Environmental Toxicology and Chemistry, 2011, 30, 413-426.	2.2	64
34	Chemical disinfection of combined sewer overflow waters using performic acid or peracetic acids. Science of the Total Environment, 2014, 490, 1065-1072.	3.9	64
35	Nanoscale zero-valent iron (nZVI) synthesis in a Mg-aminoclay solution exhibits increased stability and reactivity for reductive decontamination. Applied Catalysis B: Environmental, 2014, 147, 748-755.	10.8	63
36	Biodegradation of benzotriazoles and hydroxy-benzothiazole in wastewater by activated sludge and moving bed biofilm reactor systems. Bioresource Technology, 2015, 192, 627-635.	4.8	62

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37	Oxidation of pharmaceuticals by chlorine dioxide in biologically treated wastewater. Chemical Engineering Journal, 2012, 185-186, 236-242.	6.6	59
38	Estrogenic personal care products in a greywater reuse system. Water Science and Technology, 2007, 56, 45-49.	1.2	58
39	Aminoclay-templated nanoscale zero-valent iron (nZVI) synthesis for efficient harvesting of oleaginous microalga, Chlorella sp. KR-1. RSC Advances, 2014, 4, 4122-4127.	1.7	58
40	Sorption and biodegradation of selected benzotriazoles and hydroxybenzothiazole in activated sludge and estimation of their fate during wastewater treatment. Chemosphere, 2015, 131, 117-123.	4.2	52
41	Removal of pharmaceuticals, toxicity and natural fluorescence through the ozonation of biologically-treated hospital wastewater, with further polishing via a suspended biofilm. Chemical Engineering Journal, 2019, 359, 321-330.	6.6	52
42	Secondary formation of disinfection by-products by UV treatment of swimming pool water. Science of the Total Environment, 2015, 520, 96-105.	3.9	51
43	Comparison of UVC/S2O82â" with UVC/H2O2 in terms of efficiency and cost for the removal of micropollutants from groundwater. Chemosphere, 2015, 119, S81-S88.	4.2	50
44	Removal of micropollutants during biological phosphorus removal: Impact of redox conditions in MBBR. Science of the Total Environment, 2019, 663, 496-506.	3.9	50
45	Degradation of pharmaceuticals from wastewater in a 20-L continuous flow bio-electro-Fenton (BEF) system. Science of the Total Environment, 2020, 727, 138684.	3.9	49
46	Identification and ecotoxicity of degradation products of chloroacetamide herbicides from UV-treatment of water. Science of the Total Environment, 2013, 458-460, 527-534.	3.9	47
47	Particles in swimming pool filters â€" Does pH determine the DBP formation?. Chemosphere, 2012, 87, 241-247.	4.2	46
48	Influence of humic acid addition on the degradation of pharmaceuticals by biofilms in effluent wastewater. International Journal of Hygiene and Environmental Health, 2017, 220, 604-610.	2.1	46
49	Ozonation control and effects of ozone on water quality in recirculating aquaculture systems. Water Research, 2018, 133, 289-298.	5.3	45
50	Evaluation of a membrane bioreactor system as post-treatment in waste water treatment for better removal of micropollutants. Water Research, 2016, 107, 37-46.	5.3	44
51	Fate of citalopram during water treatment with O3, ClO2, UV and fenton oxidation. Chemosphere, 2012, 89, 129-135.	4.2	43
52	Removal efficiency and economic cost comparison of hydrated electron-mediated reductive pathways for treatment of bromate. Chemical Engineering Journal, 2017, 320, 523-531.	6.6	43
53	Covalent organic polymer functionalization of activated carbon surfaces through acyl chloride for environmental clean-up. Chemical Engineering Journal, 2017, 309, 766-771.	6.6	39
54	Impact of solid retention time and nitrification capacity on the ability of activated sludge to remove pharmaceuticals. Environmental Technology (United Kingdom), 2012, 33, 865-872.	1.2	38

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55	Combined UV treatment and ozonation for the removal of by-product precursors in swimming pool water. Water Research, 2017, 110, 141-149.	5.3	38
56	Energy Effectiveness of Direct UV and UV/H₂O₂Treatment of Estrogenic Chemicals in Biologically Treated Sewage. International Journal of Photoenergy, 2012, 2012, 1-9.	1.4	37
57	Combined Sewer Overflow pretreatment with chemical coagulation and a particle settler for improved peracetic acid disinfection. Journal of Industrial and Engineering Chemistry, 2016, 37, 372-379.	2.9	36
58	Nanoporous networks as effective stabilisation matrices for nanoscale zero-valent iron and groundwater pollutant removal. Journal of Materials Chemistry A, 2016, 4, 632-639.	5.2	36
59	Disulfide polymer grafted porous carbon composites for heavy metal removal from stormwater runoff. Chemical Engineering Journal, 2018, 348, 685-692.	6.6	36
60	Hybrid Moving Bed Biofilm Reactor for the biodegradation of benzotriazoles and hydroxy-benzothiazole in wastewater. Journal of Hazardous Materials, 2017, 323, 299-310.	6.5	35
61	Impact of intermittent feeding on polishing of micropollutants by moving bed biofilm reactors (MBBR). Journal of Hazardous Materials, 2021, 403, 123536.	6.5	35
62	Ozonation of estrogenic chemicals in biologically treated sewage. Water Science and Technology, 2010, 62, 649-657.	1.2	33
63	Transformation products of clindamycin in moving bed biofilm reactor (MBBR). Water Research, 2017, 113, 139-148.	5.3	33
64	Optimal pH in chlorinated swimming pools â€“ balancing formation of by-products. Journal of Water and Health, 2013, 11, 465-472.	1.1	32
65	Granular activated carbon with grafted nanoporous polymer enhances nanoscale zero-valent iron impregnation and water contaminant removal. Chemical Engineering Journal, 2018, 339, 22-31.	6.6	31
66	Evaluation of pretreatments for inhibiting bromate formation during ozonation. Environmental Technology (United Kingdom), 2012, 33, 1747-1753.	1.2	29
67	Algal toxicity of the alternative disinfectants performic acid (PFA), peracetic acid (PAA), chlorine dioxide (ClO 2) and their by-products hydrogen peroxide (H 2 O 2) and chlorite (ClO 2 â^’). International Journal of Hygiene and Environmental Health, 2017, 220, 570-574.	2.1	29
68	Regeneration of Fe(II) from Fenton-derived ferric sludge using a novel biocathode. Bioresource Technology, 2020, 318, 124195.	4.8	29
69	An innovative microbial electrochemical ultraviolet photolysis cell (MEUC) for efficient degradation of carbamazepine. Water Research, 2020, 187, 116451.	5.3	29
70	Transport and Fate of Estrogenic Hormones in Slurryâ€treated Soil Monoliths. Journal of Environmental Quality, 2009, 38, 955-964.	1.0	28
71	Simple colorimetric assay for dehalogenation reactivity of nanoscale zero-valent iron using 4-chlorophenol. Applied Catalysis B: Environmental, 2015, 166-167, 18-24.	10.8	27
72	Biodegradation testing of chemicals with high Henry's constants â€“ Separating mass and effective concentration reveals higher rate constants. Chemosphere, 2017, 174, 716-721.	4.2	26

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73	Acute toxicity and risk evaluation of the CSO disinfectants performic acid, peracetic acid, chlorine dioxide and their by-products hydrogen peroxide and chlorite. Science of the Total Environment, 2019, 677, 1-8.	3.9	26
74	Removal of pharmaceuticals in WWTP effluents by ozone and hydrogen peroxide. Water S A, 2014, 40, 165.	0.2	25
75	Municipal wastewater treatment targeting pharmaceuticals by a pilot-scale hybrid attached biofilm and activated sludge system (Hybasâ„¢). Chemosphere, 2020, 259, 127397.	4.2	25
76	Degradation of metoprolol from wastewater in a bio-electro-Fenton system. Science of the Total Environment, 2021, 771, 145385.	3.9	25
77	Full scale evaluation of combined sewer overflows disinfection using performic acid in a sea-outfall pipe. Chemical Engineering Journal, 2015, 270, 133-139.	6.6	24
78	Aquatic ecotoxicity effect of engineered aminoclay nanoparticles. Ecotoxicology and Environmental Safety, 2014, 102, 34-41.	2.9	23
79	Effect of ozonation of swimming pool water on formation of volatile disinfection by-products â€“ A laboratory study. Chemical Engineering Journal, 2016, 289, 277-285.	6.6	21
80	Effect of medium-pressure UV-lamp treatment on disinfection by-products in chlorinated seawater swimming pool waters. Science of the Total Environment, 2017, 599-600, 910-917.	3.9	21
81	Investigation of washing and storage strategy on aging of Mg-aminoclay (MgAC) coated nanoscale zero-valent iron (nZVI) particles. Chemical Engineering Science, 2014, 119, 310-317.	1.9	20
82	Inter-laboratory exercise on steroid estrogens in aqueous samples. Environmental Pollution, 2010, 158, 658-662.	3.7	19
83	Use of fluorescence spectroscopy to control ozone dosage in recirculating aquaculture systems. Water Research, 2017, 111, 357-365.	5.3	19
84	Graduated characterization method using a multi-well microplate for reducing reactivity of nanoscale zero valent iron materials. Applied Catalysis B: Environmental, 2016, 181, 314-320.	10.8	17
85	Treatment of Arctic wastewater by chemical coagulation, UV and peracetic acid disinfection. Environmental Science and Pollution Research, 2018, 25, 32851-32859.	2.7	14
86	Novel pre-treatments to control bromate formation during ozonation. Journal of Hazardous Materials, 2017, 323, 452-459.	6.5	13
87	Polishing micropollutants in municipal wastewater, using biogenic manganese oxides in a moving bed biofilm reactor (BioMn-MBBR). Journal of Hazardous Materials, 2022, 427, 127889.	6.5	13
88	Application of waterworks sludge in wastewater treatment plants. International Journal of Environmental Science and Technology, 2013, 10, 1157-1166.	1.8	12
89	Colorimetric Quantification Methods for Peracetic Acid together with Hydrogen Peroxide for Water Disinfection Process Control. International Journal of Environmental Research and Public Health, 2020, 17, 4656.	1.2	11
90	Using mechanisms of hydrolysis and sorption to reduce siloxanes occurrence in biogas of anaerobic sludge digesters. Bioresource Technology, 2016, 221, 205-213.	4.8	10

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91	Improved DBP elimination from swimming pool water by continuous combined UV and ozone treatment. Water Research, 2018, 147, 214-222.	5.3	9
92	Cost-efficient microbial electrosynthesis of hydrogen peroxide on a facile-prepared floating electrode by entrapping oxygen. Bioresource Technology, 2021, 342, 125995.	4.8	9
93	When microbial electrochemistry meets UV: The applicability to high-strength real pharmaceutical industry wastewater. Journal of Hazardous Materials, 2022, 423, 127151.	6.5	9
94	A modified nitrification inhibition test for high-salinity wastewater. Chemical Engineering Journal, 2022, 429, 132460.	6.6	9
95	Efficient recovery of dissolved Fe(II) from near neutral pH Fenton via microbial electrolysis. Journal of Hazardous Materials, 2022, 436, 129196.	6.5	9
96	HS-SPME-GC-MS analysis of antioxidant degradation products migrating to drinking water from PE materials and PEX pipes. International Journal of Environmental Analytical Chemistry, 2013, 93, 593-612.	1.8	8
97	Applicability of disulfide-polymer particles surface embedded on alginate beads for cadmium removal from airport derived stormwater. Journal of Environmental Chemical Engineering, 2018, 6, 4124-4129.	3.3	8
98	Removal of Pharmaceuticals, Toxicity and Natural Fluorescence by Ozonation in Biologically Pre-Treated Municipal Wastewater, in Comparison to Subsequent Polishing Biofilm Reactors. Water (Switzerland), 2020, 12, 1059.	1.2	8
99	A novel persulfate-photo-bioelectrochemical hybrid system promoting the degradation of refractory micropollutants at neutral pH. Journal of Hazardous Materials, 2021, 416, 125905.	6.5	8
100	Feasibility study on produced water oxidation as a pretreatment at offshore platform. Chemical Engineering Research and Design, 2022, 160, 255-264.	2.7	8
101	Elimination of recalcitrant micropollutants by medium pressure UV-catalyzed bioelectrochemical advanced oxidation process: Influencing factors, transformation pathway and toxicity assessment. Science of the Total Environment, 2022, 828, 154543.	3.9	6
102	Substance Flow Analysis and Source Mapping of Chemical UV-filters. Water, Air and Soil Pollution, 2008, 8, 473-484.	0.8	5
103	Accelerated anaerobic hydrolysis rates under a combination of intermittent aeration and anaerobic conditions. Water Science and Technology, 2017, 75, 1944-1951.	1.2	5
104	Termination of nanoscale zero-valent iron reactivity by addition of bromate as a reducing reactivity competitor. Journal of Nanoparticle Research, 2017, 19, 1.	0.8	5
105	Ecotoxicity Evaluation of Pure Peracetic Acid (PAA) after Eliminating Hydrogen Peroxide from Commercial PAA. International Journal of Environmental Research and Public Health, 2020, 17, 5031.	1.2	5
106	Synergy between ozonation and GAC filtration for chlorinated ethenes-contaminated groundwater treatment. Journal of Water Process Engineering, 2021, 44, 102356.	2.6	4
107	Disinfection of hospital-derived antibiotic-resistant bacteria at source using peracetic acid. Journal of Water Process Engineering, 2022, 45, 102507.	2.6	4
108	Effect of slow biodegradable substrate addition on biofilm structure and reactor performance in two MBBRs filled with different support media. Environmental Technology (United Kingdom), 2020, 41, 2750-2759.	1.2	3

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109	Natural fluorescence emission â€“ an indirect measurement of applied ozone dosages to remove pharmaceuticals in biologically treated wastewater. Environmental Technology (United Kingdom), 2021, 42, 584-596.	1.2	3
110	Estimating dehalogenation reactivity of nanoscale zero-valent iron by simple colorimetric assay by way of 4-chlorophenol reduction. Environmental Engineering Research, 2020, 25, 197-204.	1.5	3
111	Microbial bioremediation of produced water under different redox conditions in marine sediments. Water Research, 2022, 218, 118428.	5.3	3
112	Engineered manganese redox cycling in anaerobicâ€“aerobic MBBRs for utilisation of biogenic manganese oxides to efficiently remove micropollutants. Chemical Engineering Journal, 2022, 446, 136998.	6.6	3
113	One-Pot Synthesis of Nanoscale Zero-Valent Iron Immobilized with Granular Activated Carbon. International Journal of Environmental Research, 2018, 12, 725-734.	1.1	2
114	Ecotoxicity and biodegradation of the bacteriostatic 3,3â€²,4â€²,5-tetrachlorosalicylanilide (TSCA) compared to the structurally similar bactericide triclosan. Science of the Total Environment, 2021, 769, 144960.	3.9	2
115	Quantification of Hypochlorite in Water Using the Nutritional Food Additive Pyridoxamine. Water (Switzerland), 2021, 13, 3616.	1.2	2
116	Levels and Treatment Options for Enteric and Antibiotic-Resistant Bacteria in Sewage from Sisimiut, Greenland. , 2013, , .		0
117	Optimization of Synthesis Condition for Nanoscale Zero Valent Iron Immobilization on Granular Activated Carbon. Daehan Hwan'gyeong Gonghag Hoeji, 2016, 38, 521-527.	0.4	0
118	Sorption of 71 Pharmaceuticals to Powder Activated Carbon for Improved Wastewater Treatment. Clean Technologies, 2022, 4, 296-308.	1.9	0