

# Raf Dewil

## List of Publications by Year in descending order

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173  
papers

12,266  
citations

41258

49  
h-index

27345

106  
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176  
all docs

176  
docs citations

176  
times ranked

11571  
citing authors

#	ARTICLE	IF	CITATIONS
1	Principles and potential of the anaerobic digestion of waste-activated sludge. <i>Progress in Energy and Combustion Science</i> , 2008, 34, 755-781.	15.8	2,275
2	Anaerobic digestion in global bio-energy production: Potential and research challenges. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 4295-4301.	8.2	685
3	Advanced sludge treatment affects extracellular polymeric substances to improve activated sludge dewatering. <i>Journal of Hazardous Materials</i> , 2004, 106, 83-92.	6.5	626
4	Fundamentals, kinetics and endothermicity of the biomass pyrolysis reaction. <i>Renewable Energy</i> , 2010, 35, 232-242.	4.3	465
5	New perspectives for Advanced Oxidation Processes. <i>Journal of Environmental Management</i> , 2017, 195, 93-99.	3.8	448
6	Challenges and opportunities in improving the production of bio-ethanol. <i>Progress in Energy and Combustion Science</i> , 2015, 47, 60-88.	15.8	446
7	Influence of low temperature thermal pre-treatment on sludge solubilisation, heavy metal release and anaerobic digestion. <i>Bioresource Technology</i> , 2010, 101, 5743-5748.	4.8	346
8	Pharmaceuticals in freshwater aquatic environments: A comparison of the African and European challenge. <i>Science of the Total Environment</i> , 2019, 654, 324-337.	3.9	335
9	Energy use of biogas hampered by the presence of siloxanes. <i>Energy Conversion and Management</i> , 2006, 47, 1711-1722.	4.4	262
10	Post-combustion carbon capture. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 138, 110490.	8.2	219
11	Bioethanol from Lignocellulosic Biomass: Current Findings Determine Research Priorities. <i>Scientific World Journal</i> , The, 2014, 2014, 1-13.	0.8	176
12	Fluidized bed waste incinerators: Design, operational and environmental issues. <i>Progress in Energy and Combustion Science</i> , 2012, 38, 551-582.	15.8	173
13	Biomass-derived aviation fuels: Challenges and perspective. <i>Progress in Energy and Combustion Science</i> , 2019, 74, 31-49.	15.8	166
14	Peracetic acid oxidation as an alternative pre-treatment for the anaerobic digestion of waste activated sludge. <i>Bioresource Technology</i> , 2011, 102, 4124-4130.	4.8	160
15	Reviewing the potential of bio-hydrogen production by fermentation. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 131, 110023.	8.2	159
16	Ultrasonic Treatment of Waste Sludge: A Review on Mechanisms and Applications. <i>Critical Reviews in Environmental Science and Technology</i> , 2014, 44, 1220-1288.	6.6	158
17	Mathematical modelling of anaerobic digestion of biomass and waste: Power and limitations. <i>Progress in Energy and Combustion Science</i> , 2013, 39, 383-402.	15.8	152
18	Influence of microwave pre-treatment on sludge solubilization and pilot scale semi-continuous anaerobic digestion. <i>Bioresource Technology</i> , 2013, 128, 598-603.	4.8	143

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19	Recycling and recovery of post-consumer plastic solid waste in a European context. <i>Thermal Science</i> , 2012, 16, 669-685.	0.5	133
20	Biochar for soil applications-sustainability aspects, challenges and future prospects. <i>Chemical Engineering Journal</i> , 2022, 428, 131189.	6.6	127
21	The distribution of heavy metals during fluidized bed combustion of sludge (FBSC). <i>Journal of Hazardous Materials</i> , 2008, 151, 96-102.	6.5	119
22	Comparing the influence of low power ultrasonic and microwave pre-treatments on the solubilisation and semi-continuous anaerobic digestion of waste activated sludge. <i>Bioresource Technology</i> , 2014, 171, 44-49.	4.8	112
23	Polymeric Cracking of Waste Polyethylene Terephthalate to Chemicals and Energy. <i>Journal of the Air and Waste Management Association</i> , 2011, 61, 721-731.	0.9	110
24	Ultrasonic treatment of waste activated sludge. <i>Environmental Progress</i> , 2006, 25, 121-128.	0.8	103
25	Biochar in water and wastewater treatment - a sustainability assessment. <i>Chemical Engineering Journal</i> , 2021, 420, 129946.	6.6	103
26	Thermogravimetric pyrolysis of waste polyethylene-terephthalate and polystyrene: A critical assessment of kinetics modelling. <i>Resources, Conservation and Recycling</i> , 2011, 55, 772-781.	5.3	102
27	Electrochemical oxidation of key pharmaceuticals using a boron doped diamond electrode. <i>Separation and Purification Technology</i> , 2018, 195, 184-191.	3.9	98
28	Isolation and screening of bacterial isolates from wastewater treatment plants to decolorize azo dyes. <i>Journal of Bioscience and Bioengineering</i> , 2018, 125, 448-456.	1.1	93
29	Peroxidation enhances the biogas production in the anaerobic digestion of biosolids. <i>Journal of Hazardous Materials</i> , 2007, 146, 577-581.	6.5	84
30	Degradation of sulfamethoxazole by heat-activated persulfate oxidation: Elucidation of the degradation mechanism and influence of process parameters. <i>Chemical Engineering Journal</i> , 2020, 379, 122234.	6.6	84
31	The analysis of volatile siloxanes in waste activated sludge. <i>Talanta</i> , 2007, 74, 14-19.	2.9	83
32	Reviewing the thermo-chemical recycling of waste polyurethane foam. <i>Journal of Environmental Management</i> , 2021, 278, 111527.	3.8	82
33	Degradation of ciprofloxacin using UV-based advanced removal processes: Comparison of persulfate-based advanced oxidation and sulfite-based advanced reduction processes. <i>Science of the Total Environment</i> , 2021, 764, 144510.	3.9	80
34	Role of process parameters in the degradation of sulfamethoxazole by heat-activated peroxydisulfate oxidation: Radical identification and elucidation of the degradation mechanism. <i>Chemical Engineering Journal</i> , 2021, 422, 130457.	6.6	77
35	The effect of ozonation on the toxicity and biodegradability of 2,4-dichlorophenol-containing wastewater. <i>Chemical Engineering Journal</i> , 2015, 280, 728-736.	6.6	73
36	Enhancing the use of waste activated sludge as bio-fuel through selectively reducing its heavy metal content. <i>Journal of Hazardous Materials</i> , 2007, 144, 703-707.	6.5	69

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37	Microwave effects in the dilute acid hydrolysis of cellulose to 5-hydroxymethylfurfural. Scientific Reports, 2018, 8, 7719.	1.6	69
38	A microwave-assisted process for the in-situ production of 5-hydroxymethylfurfural and furfural from lignocellulosic polysaccharides in a biphasic reaction system. Journal of Cleaner Production, 2018, 187, 1014-1024.	4.6	68
39	Effects of process variables and kinetics on the degradation of 2,4-dichlorophenol using advanced reduction processes (ARP). Journal of Hazardous Materials, 2018, 357, 81-88.	6.5	65
40	A chemically assembled anion exchange membrane surface for monovalent anion selectivity and fouling reduction. Journal of Materials Chemistry A, 2019, 7, 6348-6356.	5.2	65
41	Heavy metals immobilization and improvement in maize ( <i>Zea mays</i> L.) growth amended with biochar and compost. Scientific Reports, 2021, 11, 18416.	1.6	64
42	Efficiency and mechanism of diclofenac degradation by sulfite/LUV advanced reduction processes (ARPs). Science of the Total Environment, 2019, 688, 65-74.	3.9	62
43	The state of art on the prediction of efficiency and modeling of the processes of pollutants removal based on machine learning. Science of the Total Environment, 2022, 807, 150554.	3.9	59
44	The Use of Ultrasonics in the Treatment of Waste Activated Sludge. Chinese Journal of Chemical Engineering, 2006, 14, 105-113.	1.7	57
45	Hydrophilic membranes to replace molecular sieves in dewatering the bio-ethanol/water azeotropic mixture. Separation and Purification Technology, 2014, 136, 144-149.	3.9	56
46	Fenton peroxidation improves the drying performance of waste activated sludge. Journal of Hazardous Materials, 2005, 117, 161-170.	6.5	55
47	Siloxane removal from biosolids by peroxidation. Energy Conversion and Management, 2008, 49, 2859-2864.	4.4	54
48	Addition of polyaluminiumchloride (PACl) to waste activated sludge to mitigate the negative effects of its sticky phase in dewatering-drying operations. Water Research, 2013, 47, 3600-3609.	5.3	52
49	Distribution of Sulphur Compounds in Sewage Sludge Treatment. Environmental Engineering Science, 2008, 25, 879-886.	0.8	51
50	Particles in a circulation loop for solar energy capture and storage. Particuology, 2019, 43, 149-156.	2.0	50
51	REMOVING POLYCYCLIC AROMATIC HYDROCARBONS FROM WATER BY ADSORPTION ON SILICAGEL. Polycyclic Aromatic Compounds, 2009, 29, 160-183.	1.4	48
52	Energy analysis of a particle suspension solar combined cycle power plant. Energy Conversion and Management, 2018, 163, 292-303.	4.4	47
53	Reducing the Heavy Metal Content of Sewage Sludge by Advanced Sludge Treatment Methods. Environmental Engineering Science, 2006, 23, 994-999.	0.8	46
54	Decolorization of reactive azo dyes using a sequential chemical and activated sludge treatment. Journal of Bioscience and Bioengineering, 2017, 124, 668-673.	1.1	46

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55	A critical review of ammonia recovery from anaerobic digestate of organic wastes via stripping. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 143, 110903.	8.2	46
56	Assessing the composition of microbial communities in textile wastewater treatment plants in comparison with municipal wastewater treatment plants. <i>MicrobiologyOpen</i> , 2017, 6, e00413.	1.2	45
57	Artificial intelligence as a sustainable tool in wastewater treatment using membrane bioreactors. <i>Chemical Engineering Journal</i> , 2021, 417, 128070.	6.6	45
58	Efficiency and mechanism of 2,4-dichlorophenol degradation by the UV/H <sub>2</sub> O <sub>2</sub> process. <i>Science of the Total Environment</i> , 2021, 782, 146781.	3.9	44
59	Biomass of invasive plant species as a potential feedstock for bioenergy production. <i>Biofuels, Bioproducts and Biorefining</i> , 2015, 9, 273-282.	1.9	42
60	Scientometric analysis and scientific trends on biochar application as soil amendment. <i>Chemical Engineering Journal</i> , 2020, 395, 125128.	6.6	41
61	Biochar and urease inhibitor mitigate NH <sub>3</sub> and N <sub>2</sub> O emissions and improve wheat yield in a urea fertilized alkaline soil. <i>Scientific Reports</i> , 2021, 11, 17413.	1.6	41
62	Hybrid operation of the bio-ethanol fermentation. <i>Separation and Purification Technology</i> , 2015, 149, 322-330.	3.9	40
63	The Direct Reduction of Iron Ore with Hydrogen. <i>Sustainability</i> , 2021, 13, 8866.	1.6	40
64	Energy-Efficient Production of Cassava-Based Bio-Ethanol. <i>Advances in Bioscience and Biotechnology (Print)</i> , 2014, 05, 925-939.	0.3	40
65	Ultrasonically enhanced anaerobic digestion of waste activated sludge. <i>International Journal of Sustainable Engineering</i> , 2008, 1, 94-104.	1.9	38
66	Parameter Identification and Modeling of the Biochemical Methane Potential of Waste Activated Sludge. <i>Environmental Science &amp; Technology</i> , 2011, 45, 4173-4178.	4.6	38
67	Advances in ozonation and biodegradation processes to enhance chlorophenol abatement in multisubstrate wastewaters: a review. <i>Environmental Science: Water Research and Technology</i> , 2019, 5, 444-481.	1.2	38
68	Acclimatized activated sludge for enhanced phenolic wastewater treatment using pinewood biochar. <i>Chemical Engineering Journal</i> , 2022, 427, 131708.	6.6	37
69	Recovery and recycling of post-consumer waste materials. Part 2. Target wastes (glass beverage) Tj ETQq1 1 0.784314 rgBT /Overlock	1.9	36
70	Microwave and ultrasound pre-treatments influence microbial community structure and digester performance in anaerobic digestion of waste activated sludge. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 5339-5352.	1.7	36
71	Application of UV/chlorine pretreatment for controlling ultrafiltration (UF) membrane fouling caused by different natural organic fractions. <i>Chemosphere</i> , 2021, 263, 127993.	4.2	35
72	Efficient adsorptive removal of ciprofloxacin and carbamazepine using modified pinewood biochar – A kinetic, mechanistic study. <i>Chemical Engineering Journal</i> , 2022, 450, 137896.	6.6	35

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73	A pilot-scale coupling of ozonation and biodegradation of 2,4-dichlorophenol-containing wastewater: The effect of biomass acclimation towards chlorophenol and intermediate ozonation products. <i>Journal of Cleaner Production</i> , 2017, 161, 1432-1441.	4.6	34
74	Environmental management as a pillar for sustainable development. <i>Journal of Environmental Management</i> , 2017, 203, 867-871.	3.8	34
75	UV/TiO <sub>2</sub> /periodate system for the degradation of organic pollutants – Kinetics, mechanisms and toxicity study. <i>Chemical Engineering Journal</i> , 2022, 449, 137680.	6.6	34
76	Methane and nitrous oxide emissions following anaerobic digestion of sludge in Japanese sewage treatment facilities. <i>Bioresource Technology</i> , 2014, 171, 175-181.	4.8	33
77	High-resolution MS and MSn investigation of ozone oxidation products from phenazone-type pharmaceuticals and metabolites. <i>Chemosphere</i> , 2015, 136, 32-41.	4.2	32
78	Nanostructured materials via green sonochemical routes – Sustainability aspects. <i>Chemosphere</i> , 2021, 276, 130146.	4.2	32
79	Quantification of the exchangeable calcium in activated sludge flocs and its implication to sludge settleability. <i>Separation and Purification Technology</i> , 2011, 83, 1-8.	3.9	31
80	Energy potential for combustion and anaerobic digestion of biomass from low-input high-diversity systems in conservation areas. <i>GCB Bioenergy</i> , 2015, 7, 888-898.	2.5	31
81	Dense upflow fluidized bed (DUFB) solar receivers of high aspect ratio: Different fluidization modes through inserting bubble rupture promoters. <i>Chemical Engineering Journal</i> , 2021, 418, 129376.	6.6	31
82	Chemo-enzymatic epoxidation of <i>Sapindus mukurossi</i> fatty acids catalyzed with <i>Candida</i> sp. 99 – 125 lipase in a solvent-free system. <i>Industrial Crops and Products</i> , 2017, 98, 10-18.	2.5	29
83	Thermo-chemical water splitting: Selection of priority reversible redox reactions by multi-attribute decision making. <i>Renewable Energy</i> , 2021, 170, 800-810.	4.3	29
84	Self-assembled embedding of ion exchange materials into nanofiber-based hydrogel framework for fluoride capture. <i>Chemical Engineering Journal</i> , 2022, 431, 134201.	6.6	29
85	Effects of ultrasonic pre-treatment on sludge characteristics and anaerobic digestion. <i>Water Science and Technology</i> , 2012, 66, 2284-2290.	1.2	28
86	The convection heat transfer coefficient in a Circulating Fluidized Bed (CFB). <i>Advanced Powder Technology</i> , 2014, 25, 710-715.	2.0	28
87	Efficient reduction of carbamazepine using UV-activated sulfite: Assessment of critical process parameters and elucidation of radicals involved. <i>Chemical Engineering Journal</i> , 2021, 404, 126403.	6.6	28
88	Advances in rigid porous high temperature filters. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 139, 110713.	8.2	28
89	Gasification of plastic waste as waste-to-energy or waste-to-syngas recovery route. <i>Natural Science</i> , 2013, 05, 695-704.	0.2	26
90	Hydrogen-enriched natural gas in a decarbonization perspective. <i>Fuel</i> , 2022, 318, 123680.	3.4	26

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91	Using a Shear Test-Based Lab Protocol to Map the Sticky Phase of Activated Sludge. Environmental Engineering Science, 2011, 28, 81-85.	0.8	25
92	Selective electrochemical degradation of 4-chlorophenol at a Ti/RuO <sub>2</sub> -IrO <sub>2</sub> anode in chloride rich wastewater. Journal of Environmental Management, 2017, 190, 61-71.	3.8	25
93	Simultaneous production of 5-hydroxymethylfurfural and furfural from bamboo (Phyllostachys Tj ETQq1 1 0.784314 rgBT /Oyerlock 10	6.6	25
94	Kinetics and mechanisms of the carbamazepine degradation in aqueous media using novel iodate-assisted photochemical and photocatalytic systems. Science of the Total Environment, 2022, 825, 153871.	3.9	24
95	Heat transfer to the riser-wall of a circulating fluidised bed (CFB). Energy, 2013, 50, 493-500.	4.5	23
96	Environmental problems arising from the sustainable development of energy, water and environment system. Journal of Environmental Management, 2020, 259, 109666.	3.8	23
97	Advanced oxidation of benzalkonium chloride in aqueous media under ozone and ozone/UV systems " Degradation kinetics and toxicity evaluation. Chemical Engineering Journal, 2021, 413, 127431.	6.6	23
98	Troubleshooting the problems arising from sustainable development. Journal of Environmental Management, 2019, 232, 52-57.	3.8	22
99	The Voidage in a CFB Riser as Function of Solids Flux and Gas Velocity. Procedia Engineering, 2015, 102, 1112-1122.	1.2	21
100	Operation Diagram of Circulating Fluidized Beds (CFBs). Procedia Engineering, 2015, 102, 1092-1103.	1.2	20
101	CFB cyclones at high temperature: Operational results and design assessment. Particuology, 2008, 6, 149-156.	2.0	19
102	Evolution of the Total Sulphur Content in Full-Scale Wastewater Sludge Treatment. Environmental Engineering Science, 2009, 26, 867-872.	0.8	18
103	Degradation of sulfamethoxazole by ferrous iron activated peroxymonosulfate: Elucidation of the degradation mechanism and influence of process parameters. Chemical Engineering Journal, 2022, 430, 132875.	6.6	18
104	Electrochemical Advanced Oxidation of Carbamazepine: Mechanism and optimal operating conditions. Chemical Engineering Journal, 2022, 446, 137114.	6.6	18
105	Engineered nanomaterials in microbial fuel cells " Recent developments, sustainability aspects, and future outlook. Fuel, 2022, 310, 122347.	3.4	17
106	Adsorption of acid fuchsine dye from wastewater by Mg-ferrite particles. Journal of Environmental Management, 2022, 317, 115427.	3.8	17
107	Prediction of the equilibrium moisture content based on the chemical composition and crystallinity of natural fibres. Industrial Crops and Products, 2022, 186, 115187.	2.5	17
108	Improved process control of an industrial sludge centrifuge-dryer installation through binary logistic regression modeling of the fouling issues. Journal of Process Control, 2012, 22, 1387-1396.	1.7	16

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109	Production of Levulinic Acid and Furfural by Microwave-Assisted Hydrolysis from Model Compounds: Effect of Temperature, Acid Concentration and Reaction Time. <i>Waste and Biomass Valorization</i> , 2018, 9, 343-355.	1.8	16
110	Photo-assisted (waste)water treatment technologies – A scientometric-based critical review. <i>Desalination</i> , 2022, 538, 115905.	4.0	16
111	Evaluation of peroxide based advanced oxidation processes (AOPs) for the degradation of ibuprofen in water. <i>Desalination and Water Treatment</i> , 2012, 50, 189-197.	1.0	15
112	Adsorption of phosphate on iron-coated sand granules as a robust end-of-pipe purification strategy in the horticulture sector. <i>Chemosphere</i> , 2021, 267, 129276.	4.2	15
113	Performance assessment of ultrasonic sludge disintegration in activated sludge wastewater treatment plants under nutrient-deficient conditions. <i>Chemical Engineering Journal</i> , 2022, 431, 133979.	6.6	15
114	Theoretical assessment of the catalytic (Pt/TiO <sub>2</sub> ) oxidation of formaldehyde at ambient temperature. <i>Catalysis Communications</i> , 2005, 6, 793-795.	1.6	14
115	Recovery and recycling of post-consumer waste materials. Part 1. Generalities and target wastes (paper, cardboard and aluminium cans). <i>International Journal of Sustainable Engineering</i> , 2010, 3, 148-158.	1.9	14
116	The design of cyclonic pre-heaters in suspension cement kilns. <i>International Journal of Sustainable Engineering</i> , 2014, 7, 307-312.	1.9	14
117	Synergistic effects of the combined use of ozone and sodium percarbonate for the oxidative degradation of dichlorvos. <i>Journal of Water Process Engineering</i> , 2021, 39, 101721.	2.6	14
118	CeO <sub>2</sub> Nanocrystalline-Supported Palladium Chloride: An Effective Catalyst for Selective Oxidation of Alcohols by Oxygen. <i>Catalysis Letters</i> , 2009, 130, 448-454.	1.4	13
119	Siloxane removal and sludge disintegration using thermo-alkaline treatments with air stripping prior to anaerobic sludge digestion. <i>Energy Conversion and Management</i> , 2015, 96, 384-391.	4.4	13
120	Comparing glow discharge plasma and ultrasound treatment for improving aerobic respiration of activated sludge. <i>Water Research</i> , 2017, 122, 207-215.	5.3	13
121	Green development challenges within the environmental management framework. <i>Journal of Environmental Management</i> , 2021, 277, 111477.	3.8	13
122	Role of carrier characteristics affecting microbial density and population in enhanced nitrogen and phosphorus removal from wastewater. <i>Journal of Environmental Management</i> , 2022, 302, 113976.	3.8	13
123	The Analysis of the Total Sulphur Content of Wastewater Treatment Sludge by ICP-OES. <i>Environmental Engineering Science</i> , 2006, 23, 904-907.	0.8	12
124	Hydrophobic-modified metal-hydroxide nanoflocculants enable one-step removal of multi-contaminants for drinking water production. <i>IScience</i> , 2021, 24, 102491.	1.9	12
125	Sustainable development in period of climate crisis. <i>Journal of Environmental Management</i> , 2022, 303, 114271.	3.8	12
126	Identification of Commercial Oxo-Biodegradable Plastics: Study of UV Induced Degradation in an Effort to Combat Plastic Waste Accumulation. <i>Journal of Polymers and the Environment</i> , 2020, 28, 2364-2376.	2.4	11



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127	Ionic Control of Functional Zeolitic Imidazolate Framework-Based Membrane for Tailoring Selectivity toward Target Ions. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 11038-11049.	4.0	11
128	Towards safety, hygiene and environmental (SHE) management in African small and medium companies. <i>Journal of Environmental Management</i> , 2009, 90, 1463-1468.	3.8	10
129	Polyelectrolyte Flocculation of Waste Activated Sludge in Decanter Centrifuge Applications: Lab Evaluation by a Centrifugal Compaction Test. <i>Environmental Engineering Science</i> , 2011, 28, 765-773.	0.8	10
130	How Photocatalyst Dosage and Ultrasound Application Influence the Photocatalytic Degradation Rate of Phenol in Water: Elucidating the Mechanisms Behind. <i>Water (Switzerland)</i> , 2020, 12, 1672.	1.2	10
131	<sup>11</sup> CO <sub>2</sub> positron emission imaging reveals the in-situ gas concentration profile as function of time and position in opaque gas-solid contacting systems. <i>Chemical Engineering Journal</i> , 2021, 404, 126507.	6.6	10
132	The Need to Accurately Define and Measure the Properties of Particles. <i>Standards</i> , 2021, 1, 19-38.	0.6	10
133	Ultrasound-assisted digestate treatment of manure digestate for increased biogas production in small pilot scale anaerobic digesters. <i>Renewable Energy</i> , 2020, 152, 664-673.	4.3	10
134	A novel sintered metal fiber microfiltration of bio-ethanol fermentation broth. <i>Korean Journal of Chemical Engineering</i> , 2015, 32, 1625-1633.	1.2	9
135	The production of bio-energy by microbial (biogas through anaerobic digestion) or thermal (pyrolysis) processes. <i>Renewable Energy</i> , 2016, 96, 1055.	4.3	9
136	Removal of sulfamethoxazole by ferrous iron activation of persulfate: Optimization of dosing strategy and degradation mechanism. <i>Science of the Total Environment</i> , 2021, 799, 149159.	3.9	9
137	Electrochemical degradation of antivirus drug lamivudine formulation: photoelectrocoagulation, peroxi-electrocoagulation, and peroxi-photoelectrocoagulation processes. <i>Journal of Applied Electrochemistry</i> , 2021, 51, 607-618.	1.5	9
138	Corrosion behaviour of lean duplex stainless steel in advanced oxidation process (AOP) based wastewater treatment plants. <i>Engineering Failure Analysis</i> , 2022, 136, 106170.	1.8	9
139	Evaluation of the effects of low energetic microwave irradiation on anaerobic digestion. <i>Journal of Environmental Management</i> , 2017, 202, 69-83.	3.8	8
140	Photocatalytic reduction of Cr(VI) from aqueous solution by visible light/CuO-Kaolin: Optimization and modeling of key parameters using central composite design (CCD). <i>Separation Science and Technology</i> , 2021, 56, 1253-1271.	1.3	8
141	Reviewing Fundamental CO <sub>2</sub> Adsorption Characteristics of Zeolite and Activated Carbon by <i>In-situ</i> Measurements With Radioactively Labelled CO <sub>2</sub> . <i>Separation and Purification Reviews</i> , 2022, 51, 318-329.	2.8	8
142	Comparative life cycle cost assessment of (lean) duplex stainless steel in wastewater treatment environments. <i>Journal of Environmental Management</i> , 2022, 306, 114375.	3.8	8
143	Anaerobic digestion of biomass and waste: current trends in mathematical modeling. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011, 44, 5024-5033.	0.4	6
144	Degradation of 4-Chlorophenol by Microwave-Enhanced Advanced Oxidation Processes: Kinetics and Influential Process Parameters. <i>Water (Switzerland)</i> , 2018, 10, 247.	1.2	6

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145	Effect of ozonation as pre-treatment and polishing step on removal of ecotoxicity and alkylphenol ethoxylates from tank truck cleaning wastewater. Journal of Water Process Engineering, 2020, 37, 101441.	2.6	6
146	Efficient microwave-assisted production of furanics and hydrochar from bamboo (Phyllostachys Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70). Biorefinery, 2022, 12, 173-181.	2.9	6
147	The steam-assisted calcination of limestone and dolomite for energy savings and to foster solar calcination processes. Journal of Cleaner Production, 2022, 363, 132640.	4.6	6
148	The "Screening Index" to Select Building-Scale Heating Systems. IOP Conference Series: Earth and Environmental Science, 2020, 586, 012004.	0.2	5
149	Co-Al and Mn-Fe Catalytic Steam Reforming of CH <sub>3</sub> OH to H <sub>2</sub> . IOP Conference Series: Earth and Environmental Science, 2022, 952, 012007.	0.2	5
150	ZnO/β-Fe <sub>2</sub> O <sub>3</sub> /Bentonite: An Efficient Solar-Light Active Magnetic Photocatalyst for the Degradation of Pharmaceutical Active Compounds. Molecules, 2022, 27, 3050.	1.7	5
151	Water Splitting by MnOx/Na <sub>2</sub> CO <sub>3</sub> Reversible Redox Reactions. Sustainability, 2022, 14, 7597.	1.6	5
152	Wall-to-Bed Heat Transfer at Minimum Gas-Solid Fluidization. Journal of Powder Technology, 2014, 2014, 1-8.	0.4	4
153	A field study of the effectiveness of sacrificial anodes in ballast tanks of merchant ships. Journal of Marine Science and Technology, 2014, 19, 116-123.	1.3	4
154	Predicting Residual Adsorbable Organic Halides Concentrations in Industrial Wastewater Using Typical Wastewater Parameters. Water (Switzerland), 2020, 12, 1653.	1.2	4
155	THEORY AND EXPERIMENTS FOR DISSOLVING SOLIDS IN WATER. Chemical Engineering Communications, 2012, 199, 335-353.	1.5	3
156	Simulation of the Anaerobic Digestion of Microwave Pre-Treated Waste Activated Sludge with ADM1. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 677-682.	0.4	3
157	Pilot-scale evaluation of ozone as a polishing step for the removal of nonylphenol from tank truck cleaning wastewater. Journal of Environmental Management, 2021, 288, 112396.	3.8	3
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