

Raf Dewil

List of Publications by Citations

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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.

164
papers

8,664
citations

40
h-index

91
g-index

176
ext. papers

10,262
ext. citations

8.4
avg, IF

6.56
L-index

#	Paper	IF	Citations
164	Principles and potential of the anaerobic digestion of waste-activated sludge. <i>Progress in Energy and Combustion Science</i> , 2008 , 34, 755-781	33.6	1880
163	Anaerobic digestion in global bio-energy production: Potential and research challenges. <i>Renewable and Sustainable Energy Reviews</i> , 2011 , 15, 4295-4301	16.2	578
162	Advanced sludge treatment affects extracellular polymeric substances to improve activated sludge dewatering. <i>Journal of Hazardous Materials</i> , 2004 , 106, 83-92	12.8	534
161	Fundamentals, kinetics and endothermicity of the biomass pyrolysis reaction. <i>Renewable Energy</i> , 2010 , 35, 232-242	8.1	385
160	Challenges and opportunities in improving the production of bio-ethanol. <i>Progress in Energy and Combustion Science</i> , 2015 , 47, 60-88	33.6	373
159	New perspectives for Advanced Oxidation Processes. <i>Journal of Environmental Management</i> , 2017 , 195, 93-99	7.9	295
158	Influence of low temperature thermal pre-treatment on sludge solubilisation, heavy metal release and anaerobic digestion. <i>Bioresource Technology</i> , 2010 , 101, 5743-8	11	282
157	Energy use of biogas hampered by the presence of siloxanes. <i>Energy Conversion and Management</i> , 2006 , 47, 1711-1722	10.6	228
156	Pharmaceuticals in freshwater aquatic environments: A comparison of the African and European challenge. <i>Science of the Total Environment</i> , 2019 , 654, 324-337	10.2	199
155	Fluidized bed waste incinerators: Design, operational and environmental issues. <i>Progress in Energy and Combustion Science</i> , 2012 , 38, 551-582	33.6	144
154	Peracetic acid oxidation as an alternative pre-treatment for the anaerobic digestion of waste activated sludge. <i>Bioresource Technology</i> , 2011 , 102, 4124-30	11	135
153	Bioethanol from lignocellulosic biomass: current findings determine research priorities. <i>Scientific World Journal, The</i> , 2014 , 2014, 298153	2.2	131
152	Ultrasonic Treatment of Waste Sludge: A Review on Mechanisms and Applications. <i>Critical Reviews in Environmental Science and Technology</i> , 2014 , 44, 1220-1288	11.1	125
151	Influence of microwave pre-treatment on sludge solubilization and pilot scale semi-continuous anaerobic digestion. <i>Bioresource Technology</i> , 2013 , 128, 598-603	11	122
150	Mathematical modelling of anaerobic digestion of biomass and waste: Power and limitations. <i>Progress in Energy and Combustion Science</i> , 2013 , 39, 383-402	33.6	116
149	The distribution of heavy metals during fluidized bed combustion of sludge (FBSC). <i>Journal of Hazardous Materials</i> , 2008 , 151, 96-102	12.8	110
148	Recycling and recovery of post-consumer plastic solid waste in a European context. <i>Thermal Science</i> , 2012 , 16, 669-685	1.2	103

147	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, 44-9	11	101
146	Biomass-derived aviation fuels: Challenges and perspective. <i>Progress in Energy and Combustion Science</i> , 2019 , 74, 31-49	33.6	93
145	Ultrasonic treatment of waste activated sludge. <i>Environmental Progress</i> , 2006 , 25, 121-128		88
144	Thermogravimetric pyrolysis of waste polyethylene-terephthalate and polystyrene: A critical assessment of kinetics modelling. <i>Resources, Conservation and Recycling</i> , 2011 , 55, 772-781	11.9	83
143	Polymeric cracking of waste polyethylene terephthalate to chemicals and energy. <i>Journal of the Air and Waste Management Association</i> , 2011 , 61, 721-31	2.4	82
142	The analysis of volatile siloxanes in waste activated sludge. <i>Talanta</i> , 2007 , 74, 14-9	6.2	76
141	Peroxidation enhances the biogas production in the anaerobic digestion of biosolids. <i>Journal of Hazardous Materials</i> , 2007 , 146, 577-81	12.8	75
140	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, 703-7	12.8	64
139	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	3.3	62
138	Reviewing the potential of bio-hydrogen production by fermentation. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 131, 110023	16.2	61
137	Electrochemical oxidation of key pharmaceuticals using a boron doped diamond electrode. <i>Separation and Purification Technology</i> , 2018 , 195, 184-191	8.3	60
136	The effect of ozonation on the toxicity and biodegradability of 2,4-dichlorophenol-containing wastewater. <i>Chemical Engineering Journal</i> , 2015 , 280, 728-736	14.7	58
135	A microwave-assisted process for the in-situ production of 5-hydroxymethylfurfural and furfural from lignocellulosic polysaccharides in a biphasic reaction system. <i>Journal of Cleaner Production</i> , 2018 , 187, 1014-1024	10.3	55
134	Fenton peroxidation improves the drying performance of waste activated sludge. <i>Journal of Hazardous Materials</i> , 2005 , 117, 161-70	12.8	51
133	The Use of Ultrasonics in the Treatment of Waste Activated Sludge. <i>Chinese Journal of Chemical Engineering</i> , 2006 , 14, 105-113	3.2	50
132	Microwave effects in the dilute acid hydrolysis of cellulose to 5-hydroxymethylfurfural. <i>Scientific Reports</i> , 2018 , 8, 7719	4.9	50
131	Hydrophilic membranes to replace molecular sieves in dewatering the bio-ethanol/water azeotropic mixture. <i>Separation and Purification Technology</i> , 2014 , 136, 144-149	8.3	49
130	Siloxane removal from biosolids by peroxidation. <i>Energy Conversion and Management</i> , 2008 , 49, 2859-2864	6.6	46

129	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	14.7	44
128	A chemically assembled anion exchange membrane surface for monovalent anion selectivity and fouling reduction. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 6348-6356	13	43
127	REMOVING POLYCYCLIC AROMATIC HYDROCARBONS FROM WATER BY ADSORPTION ON SILICAGEL. <i>Polycyclic Aromatic Compounds</i> , 2009 , 29, 160-183	1.3	43
126	Addition of polyaluminiumchloride (PACl) to waste activated sludge to mitigate the negative effects of its sticky phase in dewatering-drying operations. <i>Water Research</i> , 2013 , 47, 3600-9	12.5	42
125	Effects of process variables and kinetics on the degradation of 2,4-dichlorophenol using advanced reduction processes (ARP). <i>Journal of Hazardous Materials</i> , 2018 , 357, 81-88	12.8	41
124	Energy analysis of a particle suspension solar combined cycle power plant. <i>Energy Conversion and Management</i> , 2018 , 163, 292-303	10.6	39
123	Distribution of Sulphur Compounds in Sewage Sludge Treatment. <i>Environmental Engineering Science</i> , 2008 , 25, 879-886	2	38
122	Post-combustion carbon capture. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 138, 110490	16.2	37
121	Efficiency and mechanism of diclofenac degradation by sulfite/UV advanced reduction processes (ARPs). <i>Science of the Total Environment</i> , 2019 , 688, 65-74	10.2	35
120	Energy-Efficient Production of Cassava-Based Bio-Ethanol. <i>Advances in Bioscience and Biotechnology (Print)</i> , 2014 , 05, 925-939	0.9	35
119	Decolorization of reactive azo dyes using a sequential chemical and activated sludge treatment. <i>Journal of Bioscience and Bioengineering</i> , 2017 , 124, 668-673	3.3	34
118	Parameter identification and modeling of the biochemical methane potential of waste activated sludge. <i>Environmental Science & Technology</i> , 2011 , 45, 4173-8	10.3	33
117	Reducing the Heavy Metal Content of Sewage Sludge by Advanced Sludge Treatment Methods. <i>Environmental Engineering Science</i> , 2006 , 23, 994-999	2	33
116	Biochar in water and wastewater treatment - a sustainability assessment. <i>Chemical Engineering Journal</i> , 2021 , 420, 129946	14.7	33
115	Hybrid operation of the bio-ethanol fermentation. <i>Separation and Purification Technology</i> , 2015 , 149, 322-330	8.3	32
114	Ultrasonically enhanced anaerobic digestion of waste activated sludge. <i>International Journal of Sustainable Engineering</i> , 2008 , 1, 94-104	3.1	32
113	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	4.2	29
112	High-resolution MS and MS(n) investigation of ozone oxidation products from phenazone-type pharmaceuticals and metabolites. <i>Chemosphere</i> , 2015 , 136, 32-41	8.4	29

111	Assessing the composition of microbial communities in textile wastewater treatment plants in comparison with municipal wastewater treatment plants. <i>MicrobiologyOpen</i> , 2017 , 6, e00413	3.4	28
110	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, 5339-52	5.7	27
109	Particles in a circulation loop for solar energy capture and storage. <i>Particuology</i> , 2019 , 43, 149-156	2.8	27
108	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	8.3	27
107	Recovery and recycling of post-consumer waste materials. Part 2. Target wastes (glass beverage bottles, plastics, scrap metal and steel cans, end-of-life tyres, batteries and household hazardous waste). <i>International Journal of Sustainable Engineering</i> , 2010 , 3, 232-245	3.1	27
106	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	10.3	26
105	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	5.6	26
104	Biomass of invasive plant species as a potential feedstock for bioenergy production. <i>Biofuels, Bioproducts and Biorefining</i> , 2015 , 9, 273-282	5.3	26
103	Effects of ultrasonic pre-treatment on sludge characteristics and anaerobic digestion. <i>Water Science and Technology</i> , 2012 , 66, 2284-90	2.2	25
102	Role of process parameters in the degradation of sulfamethoxazole by heat-activated peroxymonosulfate oxidation: Radical identification and elucidation of the degradation mechanism. <i>Chemical Engineering Journal</i> , 2021 , 422, 130457	14.7	25
101	The convection heat transfer coefficient in a Circulating Fluidized Bed (CFB). <i>Advanced Powder Technology</i> , 2014 , 25, 710-715	4.6	24
100	Heat transfer to the riser-wall of a circulating fluidised bed (CFB). <i>Energy</i> , 2013 , 50, 493-500	7.9	23
99	Biochar for soil applications-sustainability aspects, challenges and future prospects. <i>Chemical Engineering Journal</i> , 2022 , 428, 131189	14.7	23
98	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	10.2	22
97	Reviewing the thermo-chemical recycling of waste polyurethane foam. <i>Journal of Environmental Management</i> , 2021 , 278, 111527	7.9	22
96	Using a Shear Test-Based Lab Protocol to Map the Sticky Phase of Activated Sludge. <i>Environmental Engineering Science</i> , 2011 , 28, 81-85	2	21
95	Chemo-enzymatic epoxidation of Sapindus mukurossi fatty acids catalyzed with Candida sp. lipase in a solvent-free system. <i>Industrial Crops and Products</i> , 2017 , 98, 10-18	5.9	20
94	Scientometric analysis and scientific trends on biochar application as soil amendment. <i>Chemical Engineering Journal</i> , 2020 , 395, 125128	14.7	19

93	Methane and nitrous oxide emissions following anaerobic digestion of sludge in Japanese sewage treatment facilities. <i>Bioresource Technology</i> , 2014 , 171, 175-81	11	19
92	Operation Diagram of Circulating Fluidized Beds (CFBs). <i>Procedia Engineering</i> , 2015 , 102, 1092-1103		18
91	Gasification of plastic waste as waste-to-energy or waste-to-syngas recovery route. <i>Natural Science</i> , 2013 , 05, 695-704	0.5	18
90	CFB cyclones at high temperature: Operational results and design assessment. <i>Particuology</i> , 2008 , 6, 149-156	2.8	18
89	Simultaneous production of 5-hydroxymethylfurfural and furfural from bamboo (<i>Phyllostachys nigra</i> Boryana) in a biphasic reaction system. <i>Chemical Engineering Journal</i> , 2020 , 386, 123957	14.7	18
88	Heavy metals immobilization and improvement in maize (<i>Zea mays</i> L.) growth amended with biochar and compost. <i>Scientific Reports</i> , 2021 , 11, 18416	4.9	18
87	The Voidage in a CFB Riser as Function of Solids Flux and Gas Velocity. <i>Procedia Engineering</i> , 2015 , 102, 1112-1122		17
86	Biochar and urease inhibitor mitigate NH and NO emissions and improve wheat yield in a urea fertilized alkaline soil. <i>Scientific Reports</i> , 2021 , 11, 17413	4.9	17
85	Selective electrochemical degradation of 4-chlorophenol at a Ti/RuO-IrO anode in chloride rich wastewater. <i>Journal of Environmental Management</i> , 2017 , 190, 61-71	7.9	16
84	Troubleshooting the problems arising from sustainable development. <i>Journal of Environmental Management</i> , 2019 , 232, 52-57	7.9	16
83	Evolution of the Total Sulphur Content in Full-Scale Wastewater Sludge Treatment. <i>Environmental Engineering Science</i> , 2009 , 26, 867-872	2	15
82	Advances in rigid porous high temperature filters. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 139, 110713	16.2	15
81	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	3.2	13
80	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		13
79	Theoretical assessment of the catalytic (Pt/TiO ₂) oxidation of formaldehyde at ambient temperature. <i>Catalysis Communications</i> , 2005 , 6, 793-795	3.2	13
78	A critical review of ammonia recovery from anaerobic digestate of organic wastes via stripping. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 143, 110903	16.2	13
77	The design of cyclonic pre-heaters in suspension cement kilns. <i>International Journal of Sustainable Engineering</i> , 2014 , 7, 307-312	3.1	12
76	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 ^{3.1}		12

75	Environmental problems arising from the sustainable development of energy, water and environment system. <i>Journal of Environmental Management</i> , 2020 , 259, 109666	7.9	12
74	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	10.6	11
73	Application of UV/chlorine pretreatment for controlling ultrafiltration (UF) membrane fouling caused by different natural organic fractions. <i>Chemosphere</i> , 2021 , 263, 127993	8.4	11
72	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	14.7	11
71	Nanostructured materials via green sonochemical routes - Sustainability aspects. <i>Chemosphere</i> , 2021 , 276, 130146	8.4	11
70	The state of art on the prediction of efficiency and modeling of the processes of pollutants removal based on machine learning. <i>Science of the Total Environment</i> , 2022 , 807, 150554	10.2	11
69	Comparing glow discharge plasma and ultrasound treatment for improving aerobic respiration of activated sludge. <i>Water Research</i> , 2017 , 122, 207-215	12.5	10
68	Towards safety, hygiene and environmental (SHE) management in African small and medium companies. <i>Journal of Environmental Management</i> , 2009 , 90, 1463-8	7.9	10
67	CeO ₂ Nanocrystalline-Supported Palladium Chloride: An Effective Catalyst for Selective Oxidation of Alcohols by Oxygen. <i>Catalysis Letters</i> , 2009 , 130, 448-454	2.8	10
66	Improved process control of an industrial sludge centrifuge-dryer installation through binary logistic regression modeling of the fouling issues. <i>Journal of Process Control</i> , 2012 , 22, 1387-1396	3.9	9
65	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	2	9
64	The Analysis of the Total Sulphur Content of Wastewater Treatment Sludge by ICP-OES. <i>Environmental Engineering Science</i> , 2006 , 23, 904-907	2	9
63	Advanced oxidation of benzalkonium chloride in aqueous media under ozone and ozone/UV systems [Degradation kinetics and toxicity evaluation. <i>Chemical Engineering Journal</i> , 2021 , 413, 127431	14.7	9
62	The Direct Reduction of Iron Ore with Hydrogen. <i>Sustainability</i> , 2021 , 13, 8866	3.6	9
61	Acclimatized activated sludge for enhanced phenolic wastewater treatment using pinewood biochar. <i>Chemical Engineering Journal</i> , 2022 , 427, 131708	14.7	9
60	A novel sintered metal fiber microfiltration of bio-ethanol fermentation broth. <i>Korean Journal of Chemical Engineering</i> , 2015 , 32, 1625-1633	2.8	8
59	Artificial intelligence as a sustainable tool in wastewater treatment using membrane bioreactors. <i>Chemical Engineering Journal</i> , 2021 , 417, 128070	14.7	8
58	Efficiency and mechanism of 2,4-dichlorophenol degradation by the UV/IO process. <i>Science of the Total Environment</i> , 2021 , 782, 146781	10.2	8

57	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	14.7	8
56	The production of bio-energy by microbial (biogas through anaerobic digestion) or thermal (pyrolysis) processes. <i>Renewable Energy</i> , 2016 , 96, 1055	8.1	7
55	Thermo-chemical water splitting: Selection of priority reversible redox reactions by multi-attribute decision making. <i>Renewable Energy</i> , 2021 , 170, 800-810	8.1	7
54	Evaluation of the effects of low energetic microwave irradiation on anaerobic digestion. <i>Journal of Environmental Management</i> , 2017 , 202, 69-83	7.9	6
53	Green development challenges within the environmental management framework. <i>Journal of Environmental Management</i> , 2021 , 277, 111477	7.9	6
52	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	4.5	5
51	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	3	5
50	Self-assembled embedding of ion exchange materials into nanofiber-based hydrogel framework for fluoride capture. <i>Chemical Engineering Journal</i> , 2022 , 431, 134201	14.7	5
49	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	8.1	5
48	Degradation of 4-Chlorophenol by Microwave-Enhanced Advanced Oxidation Processes: Kinetics and Influential Process Parameters. <i>Water (Switzerland)</i> , 2018 , 10, 247	3	4
47	Oxidizing Agents and Organic Solvents as Pretreatment for Anaerobic Digestion 2012 , 199-214		4
46	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		4
45	Engineered nanomaterials in microbial fuel cells [Recent developments, sustainability aspects, and future outlook. <i>Fuel</i> , 2022 , 310, 122347	7.1	4
44	Effect of ozonation as pre-treatment and polishing step on removal of ecotoxicity and alkylphenol ethoxylates from tank truck cleaning wastewater. <i>Journal of Water Process Engineering</i> , 2020 , 37, 101441	6.7	4
43	¹¹ C02 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	14.7	4
42	Electrochemical degradation of antivirus drug lamivudine formulation: photoelectrocoagulation, peroxi-electrocoagulation, and peroxi-photoelectrocoagulation processes. <i>Journal of Applied Electrochemistry</i> , 2021 , 51, 607-618	2.6	4
41	Wall-to-Bed Heat Transfer at Minimum Gas-Solid Fluidization. <i>Journal of Powder Technology</i> , 2014 , 2014, 1-8		3
40	Degradation of sulfamethoxazole by ferrous iron activated peroxymonosulfate: Elucidation of the degradation mechanism and influence of process parameters. <i>Chemical Engineering Journal</i> , 2022 , 430, 132875	14.7	3

39	Hydrophobic-modified metal-hydroxide nanofloculants enable one-step removal of multi-contaminants for drinking water production. <i>IScience</i> , 2021 , 24, 102491	6.1	3
38	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	2.5	3
37	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	8.4	3
36	Ionic Control of Functional Zeolitic Imidazolate Framework-Based Membrane for Tailoring Selectivity toward Target Ions.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	3
35	Influence of electrochemical advanced oxidation on the long-term operation of an Upflow Anaerobic Sludge Blanket (UASB) reactor treating 4-chlorophenol containing wastewater. <i>Renewable Energy</i> , 2020 , 159, 683-692	8.1	2
34	Wall-to-Suspension Heat Transfer in a CFB Downcomer. <i>Journal of Powder Technology</i> , 2015 , 2015, 1-9		2
33	A field study of the effectiveness of sacrificial anodes in ballast tanks of merchant ships. <i>Journal of Marine Science and Technology</i> , 2014 , 19, 116-123	1.7	2
32	Simulation of the Anaerobic Digestion of Microwave Pre-Treated Waste Activated Sludge with ADM1. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 677-682		2
31	MODELING OF THE FOULING PROBABILITY OF AN ACTIVATED SLUDGE DRYER. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010 , 43, 643-648		2
30	Sustainable development in period of climate crisis.. <i>Journal of Environmental Management</i> , 2022 , 303, 114271	7.9	2
29	Reviewing Fundamental CO2 Adsorption Characteristics of Zeolite and Activated Carbon by In-situ Measurements With Radioactively Labelled CO2. <i>Separation and Purification Reviews</i> , 1-12	7.3	2
28	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	6.7	2
27	Efficient microwave-assisted production of furanics and hydrochar from bamboo (<i>Phyllostachys nigr</i> Boryana) in a biphasic reaction system: effect of inorganic salts. <i>Biomass Conversion and Biorefinery</i> , 1	2.3	2
26	The Need to Accurately Define and Measure the Properties of Particles. <i>Standards</i> , 2021 , 1, 19-38		2
25	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	10.2	2
24	Kinetics and mechanisms of the carbamazepine degradation in aqueous media using novel iodate-assisted photochemical and photocatalytic systems.. <i>Science of the Total Environment</i> , 2022 , 153871	10.2	2
23	The Screening Index to Select Building-Scale Heating Systems. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020 , 586, 012004	0.3	1
22	Predicting Residual Adsorbable Organic Halides Concentrations in Industrial Wastewater Using Typical Wastewater Parameters. <i>Water (Switzerland)</i> , 2020 , 12, 1653	3	1

21	THEORY AND EXPERIMENTS FOR DISSOLVING SOLIDS IN WATER. <i>Chemical Engineering Communications</i> , 2012 , 199, 335-353	2.2	1
20	Comparative life cycle cost assessment of (lean) duplex stainless steel in wastewater treatment environments.. <i>Journal of Environmental Management</i> , 2022 , 306, 114375	7.9	1
19	Bio-energy Carriers as Back-up Fuel in Hybrid Solar Power Plants. <i>IOP Conference Series: Earth and Environmental Science</i> , 2022 , 544, 012012	0.3	1
18	Performance assessment of ultrasonic sludge disintegration in activated sludge wastewater treatment plants under nutrient-deficient conditions. <i>Chemical Engineering Journal</i> , 2021 , 431, 133979	14.7	1
17	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	7.9	1
16	Respirometric Evaluation of Toxicity of 2,4-Dichlorophenol Towards Activated Sludge and the Ability of Biomass Acclimation. <i>Lecture Notes in Civil Engineering</i> , 2017 , 60-67	0.3	1
15	Co-Al and Mn-Fe Catalytic Steam Reforming of CH ₃ OH to H ₂ . <i>IOP Conference Series: Earth and Environmental Science</i> , 2022 , 952, 012007	0.3	1
14	Hydrogen-enriched natural gas in a decarbonization perspective. <i>Fuel</i> , 2022 , 318, 123680	7.1	1
13	Corrosion behaviour of lean duplex stainless steel in advanced oxidation process (AOP) based wastewater treatment plants. <i>Engineering Failure Analysis</i> , 2022 , 136, 106170	3.2	1
12	ZnO/Fe ₂ O ₃ /Bentonite: An Efficient Solar-Light Active Magnetic Photocatalyst for the Degradation of Pharmaceutical Active Compounds. <i>Molecules</i> , 2022 , 27, 3050	4.8	1
11	Adsorption of acid fuchsine dye from wastewater by Mg-ferrite particles. <i>Journal of Environmental Management</i> , 2022 , 317, 115427	7.9	1
10	Pilot-scale evaluation of ozone as a polishing step for the removal of nonylphenol from tank truck cleaning wastewater. <i>Journal of Environmental Management</i> , 2021 , 288, 112396	7.9	0
9	Fluidized Bed Technology: Challenges and Perspectives. <i>IOP Conference Series: Earth and Environmental Science</i> , 2022 , 952, 012010	0.3	0
8	Electrochemical Advanced Oxidation of Carbamazepine: Mechanism and optimal operating conditions. <i>Chemical Engineering Journal</i> , 2022 , 446, 137114	14.7	0
7	Integrating ultrasonic disintegration in activated sludge wastewater treatment plant modeling. <i>Desalination and Water Treatment</i> , 2016 , 57, 10200-10209		
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