

Eric D Van Hullebusch

List of Publications by Citations

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288
papers

10,462
citations

53
h-index

88
g-index

303
ext. papers

12,531
ext. citations

6.8
avg, IF

6.81
L-index

#	Paper	IF	Citations
288	Removal of residual anti-inflammatory and analgesic pharmaceuticals from aqueous systems by electrochemical advanced oxidation processes. A review. <i>Chemical Engineering Journal</i> , 2013 , 228, 944-964	14.7	367
287	Coupling of membrane filtration and advanced oxidation processes for removal of pharmaceutical residues: A critical review. <i>Separation and Purification Technology</i> , 2015 , 156, 891-914	8.3	333
286	Removal of hydrophobic organic pollutants from soil washing/flushing solutions: A critical review. <i>Journal of Hazardous Materials</i> , 2016 , 306, 149-174	12.8	289
285	Selenium: environmental significance, pollution, and biological treatment technologies. <i>Biotechnology Advances</i> , 2016 , 34, 886-907	17.8	231
284	Application of advanced oxidation processes for TNT removal: A review. <i>Journal of Hazardous Materials</i> , 2010 , 178, 10-28	12.8	225
283	Comparative bioremediation of heavy metals and petroleum hydrocarbons co-contaminated soil by natural attenuation, phytoremediation, bioaugmentation and bioaugmentation-assisted phytoremediation. <i>Science of the Total Environment</i> , 2016 , 563-564, 693-703	10.2	208
282	Extraction of extracellular polymeric substances (EPS) from anaerobic granular sludges: comparison of chemical and physical extraction protocols. <i>Applied Microbiology and Biotechnology</i> , 2010 , 85, 1589-99	5.7	196
281	Metal immobilisation by biofilms: Mechanisms and analytical tools. <i>Reviews in Environmental Science and Biotechnology</i> , 2003 , 2, 9-33	13.9	170
280	Electrochemical advanced oxidation and biological processes for wastewater treatment: a review of the combined approaches. <i>Environmental Science and Pollution Research</i> , 2014 , 21, 8493-524	5.1	169
279	A hierarchical CoFe-layered double hydroxide modified carbon-felt cathode for heterogeneous electro-Fenton process. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 3655-3666	13	168
278	Developments in Bioremediation of Soils and Sediments Polluted with Metals and Radionuclides □ 1. Microbial Processes and Mechanisms Affecting Bioremediation of Metal Contamination and Influencing Metal Toxicity and Transport. <i>Reviews in Environmental Science and Biotechnology</i> , 2005 , 1, 1-17	13.9	155
277	Sub-stoichiometric titanium oxide (TiO) as a suitable ceramic anode for electrooxidation of organic pollutants: A case study of kinetics, mineralization and toxicity assessment of amoxicillin. <i>Water Research</i> , 2016 , 106, 171-182	12.5	144
276	Fungal pelleted reactors in wastewater treatment: Applications and perspectives. <i>Chemical Engineering Journal</i> , 2016 , 283, 553-571	14.7	138
275	Biotechnological strategies for the recovery of valuable and critical raw materials from waste electrical and electronic equipment (WEEE) - A review. <i>Journal of Hazardous Materials</i> , 2019 , 362, 467-481	12.8	135
274	Electronic waste as a secondary source of critical metals: Management and recovery technologies. <i>Resources, Conservation and Recycling</i> , 2018 , 135, 296-312	11.9	133
273	Role of extracellular polymeric substances (EPS) production in bioaggregation: application to wastewater treatment. <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 9883-905	5.7	131
272	Recent advances on hydrometallurgical recovery of critical and precious elements from end of life electronic wastes - a review. <i>Critical Reviews in Environmental Science and Technology</i> , 2019 , 49, 212-275	11.1	127

271	Two-step bioleaching of copper and gold from discarded printed circuit boards (PCB). <i>Waste Management</i> , 2016 , 57, 149-157	8.6	126
270	Occurrence and Removal of Organic Micropollutants in Landfill Leachates Treated by Electrochemical Advanced Oxidation Processes. <i>Environmental Science & Technology</i> , 2015 , 49, 12187-96	10.3	124
269	A complete phenol oxidation pathway obtained during electro-Fenton treatment and validated by a kinetic model study. <i>Applied Catalysis B: Environmental</i> , 2016 , 180, 189-198	21.8	121
268	Trace Metals in Anaerobic Granular Sludge Reactors: Bioavailability and Dosing Strategies. <i>Engineering in Life Sciences</i> , 2006 , 6, 293-301	3.4	120
267	Extracellular polymeric substances govern the surface charge of biogenic elemental selenium nanoparticles. <i>Environmental Science & Technology</i> , 2015 , 49, 1713-20	10.3	117
266	Selenate removal in methanogenic and sulfate-reducing upflow anaerobic sludge bed reactors. <i>Water Research</i> , 2008 , 42, 2184-94	12.5	111
265	Comparison of three sequential extraction procedures to describe metal fractionation in anaerobic granular sludges. <i>Talanta</i> , 2005 , 65, 549-58	6.2	107
264	Reuse options for coal fired power plant bottom ash and fly ash. <i>Reviews in Environmental Science and Biotechnology</i> , 2014 , 13, 467-486	13.9	105
263	Adsorption of zinc by biogenic elemental selenium nanoparticles. <i>Chemical Engineering Journal</i> , 2015 , 260, 855-863	14.7	101
262	Electrochemical mineralization of sulfamethoxazole over wide pH range using FeII/FeIII LDH modified carbon felt cathode: Degradation pathway, toxicity and reusability of the modified cathode. <i>Chemical Engineering Journal</i> , 2018 , 350, 844-855	14.7	97
261	Comparative study on the removal of humic acids from drinking water by anodic oxidation and electro-Fenton processes: Mineralization efficiency and modelling. <i>Applied Catalysis B: Environmental</i> , 2016 , 194, 32-41	21.8	97
260	Influence of solubilizing agents (cyclodextrin or surfactant) on phenanthrene degradation by electro-Fenton process--study of soil washing recycling possibilities and environmental impact. <i>Water Research</i> , 2014 , 48, 306-16	12.5	92
259	Combination of surfactant enhanced soil washing and electro-Fenton process for the treatment of soils contaminated by petroleum hydrocarbons. <i>Journal of Environmental Management</i> , 2015 , 153, 40-7	7.9	90
258	Fe(II)-mediated autotrophic denitrification: A new bioprocess for iron bioprecipitation/biorecovery and simultaneous treatment of nitrate-containing wastewaters. <i>International Biodeterioration and Biodegradation</i> , 2017 , 119, 631-648	4.8	86
257	Lead and cadmium biosorption by extracellular polymeric substances (EPS) extracted from activated sludges: pH-sorption edge tests and mathematical equilibrium modelling. <i>Chemosphere</i> , 2006 , 64, 1955-62	8.4	86
256	A review of nature-based solutions for urban water management in European circular cities: a critical assessment based on case studies and literature. <i>Blue-Green Systems</i> , 2020 , 2, 112-136	5.2	83
255	Sorption of cobalt and nickel on anaerobic granular sludges: isotherms and sequential extraction. <i>Chemosphere</i> , 2005 , 58, 493-505	8.4	76
254	Combination of anodic oxidation and biological treatment for the removal of phenanthrene and Tween 80 from soil washing solution. <i>Chemical Engineering Journal</i> , 2016 , 306, 588-596	14.7	75

253	Treatment of synthetic soil washing solutions containing phenanthrene and cyclodextrin by electro-oxidation. Influence of anode materials on toxicity removal and biodegradability enhancement. <i>Applied Catalysis B: Environmental</i> , 2014 , 160-161, 666-675	21.8	74
252	Perspectives regarding the use of metallurgical slags as secondary metal resources - A review of bioleaching approaches. <i>Journal of Environmental Management</i> , 2018 , 219, 138-152	7.9	72
251	Metal chalcogenide quantum dots: biotechnological synthesis and applications. <i>RSC Advances</i> , 2016 , 6, 41477-41495	3.7	70
250	Use of Sub-stoichiometric Titanium Oxide as a Ceramic Electrode in Anodic Oxidation and Electro-Fenton Degradation of the Beta-blocker Propranolol: Degradation Kinetics and Mineralization Pathway. <i>Electrochimica Acta</i> , 2017 , 242, 344-354	6.7	69
249	Characterization of the mineral fraction associated to extracellular polymeric substances (EPS) in anaerobic granular sludges. <i>Environmental Science & Technology</i> , 2010 , 44, 412-8	10.3	69
248	Soil Washing/Flushing Treatments of Organic Pollutants Enhanced by Cyclodextrins and Integrated Treatments: State of the Art. <i>Critical Reviews in Environmental Science and Technology</i> , 2014 , 44, 705-795	11.1	68
247	Sorption of Cd(II) and Pb(II) by exopolymeric substances (EPS) extracted from activated sludges and pure bacterial strains: modeling of the metal/ligand ratio effect and role of the mineral fraction. <i>Bioresource Technology</i> , 2009 , 100, 2959-68	11	66
246	Effect of pH on cadmium and lead binding by extracellular polymeric substances (EPS) extracted from environmental bacterial strains. <i>Colloids and Surfaces B: Biointerfaces</i> , 2008 , 63, 48-54	6	65
245	Anodic oxidation of surfactants and organic compounds entrapped in micelles - Selective degradation mechanisms and soil washing solution reuse. <i>Water Research</i> , 2017 , 118, 1-11	12.5	64
244	Mechanisms and adsorption capacities of biochar for the removal of organic and inorganic pollutants from industrial wastewater. <i>International Journal of Environmental Science and Technology</i> , 2021 , 18, 3273-3294	3.3	64
243	Copper Metallurgical Slags [Current Knowledge and Fate: A Review. <i>Critical Reviews in Environmental Science and Technology</i> , 2015 , 45, 2424-2488	11.1	62
242	Enhanced Phytoremediation: A Review of Low Molecular Weight Organic Acids and Surfactants Used as Amendments. <i>Critical Reviews in Environmental Science and Technology</i> , 2014 , 44, 2531-2576	11.1	61
241	Removal of colloidal biogenic selenium from wastewater. <i>Chemosphere</i> , 2015 , 125, 130-8	8.4	59
240	Toward an accelerated biodeterioration test to understand the behavior of Portland and calcium aluminate cementitious materials in sewer networks. <i>International Biodeterioration and Biodegradation</i> , 2013 , 84, 236-243	4.8	58
239	Environmental impact of two successive chemical treatments in a small shallow eutrophied lake: Part II. Case of copper sulfate. <i>Environmental Pollution</i> , 2002 , 120, 627-34	9.3	57
238	Viscosity evolution of anaerobic granular sludge. <i>Biochemical Engineering Journal</i> , 2006 , 27, 315-322	4.2	56
237	Leaching and selective zinc recovery from acidic leachates of zinc metallurgical leach residues. <i>Journal of Hazardous Materials</i> , 2017 , 324, 71-82	12.8	53
236	Effect of temperature on selenium removal from wastewater by UASB reactors. <i>Water Research</i> , 2016 , 94, 146-154	12.5	53

235	Biotechnology in the management and resource recovery from metal bearing solid wastes: Recent advances. <i>Journal of Environmental Management</i> , 2018 , 211, 138-153	7.9	52
234	Fluorescence detection to determine proteins and humic-like substances fingerprints of exopolymeric substances (EPS) from biological sludges performed by size exclusion chromatography (SEC). <i>Bioresource Technology</i> , 2013 , 131, 159-65	11	52
233	Fast and complete removal of the 5-fluorouracil drug from water by electro-Fenton oxidation. <i>Environmental Chemistry Letters</i> , 2018 , 16, 281-286	13.3	52
232	Effects of extraction procedures on metal binding properties of extracellular polymeric substances (EPS) from anaerobic granular sludges. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010 , 80, 161-8	6	51
231	Effect of Na ⁺ and Ca ²⁺ on the aggregation properties of sieved anaerobic granular sludge. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007 , 306, 142-149	5.1	51
230	Environmental impact of two successive chemical treatments in a small shallow eutrophied lake: Part I. Case of aluminium sulphate. <i>Environmental Pollution</i> , 2002 , 120, 617-26	9.3	51
229	Effect of soil/contamination characteristics and process operational conditions on aminopolycarboxylates enhanced soil washing for heavy metals removal: a review. <i>Reviews in Environmental Science and Biotechnology</i> , 2016 , 15, 111-145	13.9	50
228	Electro-Fenton treatment of a complex pharmaceutical mixture: Mineralization efficiency and biodegradability enhancement. <i>Chemosphere</i> , 2020 , 253, 126659	8.4	48
227	Preferential adsorption of Cu in a multi-metal mixture onto biogenic elemental selenium nanoparticles. <i>Chemical Engineering Journal</i> , 2016 , 284, 917-925	14.7	47
226	Impact of electrochemical treatment of soil washing solution on PAH degradation efficiency and soil respirometry. <i>Environmental Pollution</i> , 2016 , 211, 354-62	9.3	47
225	Granular sludge in full-scale anaerobic bioreactors: Trace element content and deficiencies. <i>Enzyme and Microbial Technology</i> , 2006 , 39, 337-346	3.8	47
224	Mesophilic anaerobic digestion of several types of spent livestock bedding in a batch leach-bed reactor: substrate characterization and process performance. <i>Waste Management</i> , 2017 , 59, 129-139	8.6	46
223	Developments in Bioremediation of Soils and Sediments Polluted with Metals and Radionuclides. 3. Influence of Chemical Speciation and Bioavailability on Contaminants Immobilization/Mobilization Bio-processes. <i>Reviews in Environmental Science and Biotechnology</i> , 2005 , 4, 185-212	13.9	46
222	A comparison of fate and toxicity of selenite, biogenically, and chemically synthesized selenium nanoparticles to zebrafish (<i>Danio rerio</i>) embryogenesis. <i>Nanotoxicology</i> , 2017 , 11, 87-97	5.3	45
221	Effect of heavy metal co-contaminants on selenite bioreduction by anaerobic granular sludge. <i>Bioresource Technology</i> , 2016 , 206, 1-8	11	44
220	Entrapped elemental selenium nanoparticles affect physicochemical properties of selenium fed activated sludge. <i>Journal of Hazardous Materials</i> , 2015 , 295, 193-200	12.8	43
219	Lead sorption by biochar produced from digestates: Consequences of chemical modification and washing. <i>Journal of Environmental Management</i> , 2018 , 219, 277-284	7.9	43
218	Cd(II) and Pb(II) sorption by extracellular polymeric substances (EPS) extracted from anaerobic granular biofilms: Evidence of a pH sorption-edge. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2012 , 43, 444-449	5.3	43

217	Comparison of Cu, Zn and Fe bioleaching from Cu-metallurgical slags in the presence of <i>Pseudomonas fluorescens</i> and <i>Acidithiobacillus thiooxidans</i> . <i>Applied Geochemistry</i> , 2016 , 68, 39-52	3.5	43
216	Nitrate removal from groundwater: a review of natural and engineered processes 2018 , 67, 885-902		43
215	Effects of selenium oxyanions on the white-rot fungus <i>Phanerochaete chrysosporium</i> . <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 2405-18	5.7	41
214	Bioelectro-Fenton: evaluation of a combined biological-advanced oxidation treatment for pharmaceutical wastewater. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 20283-20292	5.1	41
213	Nickel and cobalt sorption on anaerobic granular sludges: kinetic and equilibrium studies. <i>Journal of Chemical Technology and Biotechnology</i> , 2004 , 79, 1219-1227	3.5	41
212	Characterization and pH-dependent leaching behaviour of historical and modern copper slags. <i>Journal of Geochemical Exploration</i> , 2016 , 160, 1-15	3.8	40
211	Metal binding properties of extracellular polymeric substances extracted from anaerobic granular sludges. <i>Environmental Science and Pollution Research</i> , 2013 , 20, 4509-19	5.1	40
210	Evaluation of size exclusion chromatography (SEC) for the characterization of extracellular polymeric substances (EPS) in anaerobic granular sludges. <i>Bioresource Technology</i> , 2009 , 100, 6258-68	11	40
209	Effect of cobalt sorption on metal fractionation in anaerobic granular sludge. <i>Journal of Environmental Quality</i> , 2004 , 33, 1256-70	3.4	40
208	Application of an electrochemical treatment for EDDS soil washing solution regeneration and reuse in a multi-step soil washing process: Case of a Cu contaminated soil. <i>Journal of Environmental Management</i> , 2015 , 163, 62-9	7.9	39
207	Electrocoagulation of colloidal biogenic selenium. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 3127-37	5.1	39
206	<i>Pseudomonas moraviensis</i> subsp. <i>stanleyae</i> , a bacterial endophyte of hyperaccumulator <i>Stanleya pinnata</i> , is capable of efficient selenite reduction to elemental selenium under aerobic conditions. <i>Journal of Applied Microbiology</i> , 2015 , 119, 400-10	4.7	39
205	Zn/Ni sulfide selective precipitation: The role of supersaturation. <i>Separation and Purification Technology</i> , 2010 , 74, 108-118	8.3	39
204	Bioconversion of selenate in methanogenic anaerobic granular sludge. <i>Journal of Environmental Quality</i> , 2006 , 35, 1873-83	3.4	39
203	Application of Zn isotopes in environmental impact assessment of Zn/Pb metallurgical industries: A mini review. <i>Applied Geochemistry</i> , 2016 , 64, 128-135	3.5	38
202	Cobalt toxicity in anaerobic granular sludge: influence of chemical speciation. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2008 , 35, 1465-74	4.2	38
201	Removal of selenite from wastewater in a <i>Phanerochaete chrysosporium</i> pellet based fungal bioreactor. <i>International Biodeterioration and Biodegradation</i> , 2015 , 102, 361-369	4.8	37
200	Degradation of anti-inflammatory drug ketoprofen by electro-oxidation: comparison of electro-Fenton and anodic oxidation processes. <i>Environmental Science and Pollution Research</i> , 2014 , 21, 8406-16	5.1	37

199	Effects of physico-chemical factors on the viscosity evolution of anaerobic granular sludge. <i>Biochemical Engineering Journal</i> , 2009 , 43, 231-238	4.2	37
198	Copper and trace element fractionation in electrokinetically treated methanogenic anaerobic granular sludge. <i>Environmental Pollution</i> , 2005 , 138, 517-28	9.3	37
197	Removal mechanisms in aerobic slurry bioreactors for remediation of soils and sediments polluted with hydrophobic organic compounds: An overview. <i>Journal of Hazardous Materials</i> , 2017 , 339, 427-449	12.8	36
196	Continuous removal and recovery of tellurium in an upflow anaerobic granular sludge bed reactor. <i>Journal of Hazardous Materials</i> , 2017 , 327, 79-88	12.8	36
195	Removal of psychoactive pharmaceutical caffeine from water by electro-Fenton process using BDD anode: Effects of operating parameters on removal efficiency. <i>Separation and Purification Technology</i> , 2015 , 156, 987-995	8.3	36
194	Influence of sulfide concentration and macronutrients on the characteristics of metal precipitates relevant to metal recovery in bioreactors. <i>Bioresource Technology</i> , 2012 , 110, 26-34	11	36
193	Effect of digestate application on microbial respiration and bacterial communities' diversity during bioremediation of weathered petroleum hydrocarbons contaminated soils. <i>Science of the Total Environment</i> , 2019 , 670, 271-281	10.2	35
192	Production, recovery and reuse of biogenic elemental selenium. <i>Environmental Chemistry Letters</i> , 2015 , 13, 89-96	13.3	34
191	Methodological approaches for fractionation and speciation to estimate trace element bioavailability in engineered anaerobic digestion ecosystems: An overview. <i>Critical Reviews in Environmental Science and Technology</i> , 2016 , 46, 1324-1366	11.1	34
190	Selenium speciation assessed by X-ray absorption spectroscopy of sequentially extracted anaerobic biofilms. <i>Environmental Science & Technology</i> , 2008 , 42, 7587-93	10.3	34
189	Biological removal of selenate and ammonium by activated sludge in a sequencing batch reactor. <i>Bioresource Technology</i> , 2017 , 229, 11-19	11	33
188	Laboratory investigation of the phosphorus removal (SRP and TP) from eutrophic lake water treated with aluminium. <i>Water Research</i> , 2006 , 40, 2713-9	12.5	33
187	Citric acid- and Tween() 80-assisted phytoremediation of a co-contaminated soil: alfalfa (<i>Medicago sativa</i> L.) performance and remediation potential. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 9215-26	5.1	32
186	Performance of a compost and biochar packed biofilter for gas-phase hydrogen sulfide removal. <i>Bioresource Technology</i> , 2019 , 273, 581-591	11	32
185	Higher Cd adsorption on biogenic elemental selenium nanoparticles. <i>Environmental Chemistry Letters</i> , 2016 , 14, 381-386	13.3	31
184	Fluidized-bed denitrification of mining water tolerates high nickel concentrations. <i>Bioresource Technology</i> , 2015 , 179, 284-290	11	30
183	Comparative performance of anaerobic attached biofilm and granular sludge reactors for the treatment of model mine drainage wastewater containing selenate, sulfate and nickel. <i>Chemical Engineering Journal</i> , 2018 , 345, 545-555	14.7	29
182	Cobalt sorption onto anaerobic granular sludge: isotherm and spatial localization analysis. <i>Journal of Biotechnology</i> , 2006 , 121, 227-40	3.7	29

181	Importance of organic amendment characteristics on bioremediation of PAH-contaminated soil. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 15041-52	5.1	29
180	Reduction of selenite to elemental selenium nanoparticles by activated sludge. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 1193-202	5.1	28
179	Metal mobilization from metallurgical wastes by soil organic acids. <i>Chemosphere</i> , 2017 , 178, 197-211	8.4	28
178	Coal Bottom Ash as Sorbing Material for Fe(II), Cu(II), Mn(II), and Zn(II) Removal from Aqueous Solutions. <i>Water, Air, and Soil Pollution</i> , 2015 , 226, 1	2.6	28
177	Influence of pH, EDTA/Fe(II) ratio, and microbial culture on Fe(II)-mediated autotrophic denitrification. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 21323-21333	5.1	28
176	Behaviour of different cementitious material formulations in sewer networks. <i>Water Science and Technology</i> , 2014 , 69, 1502-8	2.2	28
175	Sorption of zinc onto elemental selenium nanoparticles immobilized in Phanerochaete chrysosporium pellets. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 21619-21630	5.1	28
174	Phosphorus Fractionation and Short-term Mobility in the Surface Sediment of a Polymictic Shallow Lake Treated with a Low Dose of Alum (Courtille Lake, France). <i>Water, Air, and Soil Pollution</i> , 2003 , 146, 75-91	2.6	27
173	Emerging technologies for biofuel production: A critical review on recent progress, challenges and perspectives. <i>Journal of Environmental Management</i> , 2021 , 290, 112627	7.9	27
172	Biomining of tellurium and selenium-tellurium nanoparticles by the white-rot fungus Phanerochaete chrysosporium. <i>International Biodeterioration and Biodegradation</i> , 2017 , 124, 258-266	4.8	26
171	Bacterially-mediated weathering of crystalline and amorphous Cu-slugs. <i>Applied Geochemistry</i> , 2016 , 64, 92-106	3.5	26
170	Electro-Fenton removal of TNT: Evidences of the electro-chemical reduction contribution. <i>Applied Catalysis B: Environmental</i> , 2011 , 104, 169-176	21.8	26
169	Copper Accumulation in a Reservoir Ecosystem Following Copper Sulfate Treatment (St. Germain Les Belles, France). <i>Water, Air, and Soil Pollution</i> , 2003 , 150, 3-22	2.6	26
168	Changes of sewage sludge digestate-derived biochar properties after chemical treatments and influence on As(III and V) and Cd(II) sorption. <i>International Biodeterioration and Biodegradation</i> , 2018 , 135, 96-102	4.8	26
167	Effects of Silicon and Silicon-Based Nanoparticles on Rhizosphere Microbiome, Plant Stress and Growth. <i>Biology</i> , 2021 , 10,	4.9	26
166	Effects of different nickel species on autotrophic denitrification driven by thiosulfate in batch tests and a fluidized-bed reactor. <i>Bioresource Technology</i> , 2017 , 238, 534-541	11	25
165	Assessment of trace heavy metals dynamics during the interaction of aqueous solutions with the artificial OECD soil: Evaluation of the effect of soil organic matter content and colloidal mobilization. <i>Chemosphere</i> , 2016 , 163, 382-391	8.4	25
164	Performance comparison of different types of constructed wetlands for the removal of pharmaceuticals and their transformation products: a review. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 14342-14364	5.1	24

163	Biological sulfate removal from gypsum contaminated construction and demolition debris. <i>Journal of Environmental Management</i> , 2013 , 131, 82-91	7.9	24
162	ADM1 based mathematical model of trace element precipitation/dissolution in anaerobic digestion processes. <i>Bioresource Technology</i> , 2018 , 267, 666-676	11	24
161	Modified Anaerobic Digestion Model No.1 for dry and semi-dry anaerobic digestion of solid organic waste. <i>Environmental Technology (United Kingdom)</i> , 2015 , 36, 870-80	2.6	23
160	Effect of total solids content on methane and volatile fatty acid production in anaerobic digestion of food waste. <i>Waste Management and Research</i> , 2014 , 32, 947-53	4	23
159	Pharmaceuticals' removal by constructed wetlands: a critical evaluation and meta-analysis on performance, risk reduction, and role of physicochemical properties on removal mechanisms. <i>Journal of Water and Health</i> , 2020 , 18, 253-291	2.2	23
158	Morphology, mineralogy, and solid-liquid phase separation characteristics of Cu and Zn precipitates produced with biogenic sulfide. <i>Environmental Science & Technology</i> , 2014 , 48, 664-73	10.3	22
157	Bioweathering of lead blast furnace metallurgical slags by <i>Pseudomonas aeruginosa</i> . <i>International Biodeterioration and Biodegradation</i> , 2014 , 86, 372-381	4.8	22
156	Combined speciation analysis by X-ray absorption near-edge structure spectroscopy, ion chromatography, and solid-phase microextraction gas chromatography-mass spectrometry to evaluate biotreatment of concentrated selenium wastewaters. <i>Environmental Science & Technology</i> , 2011 , 45, 1067-73	10.3	22
155	Induction of cobalt limitation in methanol-fed UASB reactors. <i>Journal of Chemical Technology and Biotechnology</i> , 2006 , 81, 1486-1495	3.5	22
154	Assessing arsenic redox state evolution in solution and solid phase during As(III) sorption onto chemically-treated sewage sludge digestate biochars. <i>Bioresource Technology</i> , 2019 , 275, 232-238	11	21
153	Characteristics of PAH tar oil contaminated soils-Black particles, resins and implications for treatment strategies. <i>Journal of Hazardous Materials</i> , 2017 , 327, 206-215	12.8	20
152	Role of Biochar in Anaerobic Digestion Based Biorefinery for Food Waste. <i>Frontiers in Energy Research</i> , 2019 , 7,	3.8	20
151	Influence of pH shocks on trace metal dynamics and performance of methanol fed granular sludge bioreactors. <i>Biodegradation</i> , 2005 , 16, 549-67	4.1	20
150	Bioalteration of synthetic Fe(III)-, Fe(II)-bearing basaltic glasses and Fe-free glass in the presence of the heterotrophic bacteria strain <i>Pseudomonas aeruginosa</i> : Impact of siderophores. <i>Geochimica Et Cosmochimica Acta</i> , 2016 , 188, 147-162	5.5	20
149	Role of Design and Operational Factors in the Removal of Pharmaceuticals by Constructed Wetlands. <i>Water (Switzerland)</i> , 2019 , 11, 2356	3	20
148	ADM1 based mathematical model of trace element complexation in anaerobic digestion processes. <i>Bioresource Technology</i> , 2019 , 276, 253-259	11	20
147	Remediation of soils contaminated by hydrophobic organic compounds: How to recover extracting agents from soil washing solutions?. <i>Journal of Hazardous Materials</i> , 2021 , 404, 124137	12.8	20
146	Comparison of the mesophilic and thermophilic anaerobic digestion of spent cow bedding in leach-bed reactors. <i>Bioresource Technology</i> , 2017 , 234, 466-471	11	19

145	A review on the efficiency of landfarming integrated with composting as a soil remediation treatment. <i>Environmental Technology Reviews</i> , 2017 , 6, 94-116	7.7	19
144	Alteration of the characteristics of extracellular polymeric substances (EPS) extracted from the fungus <i>Phanerochaete chrysosporium</i> when exposed to sub-toxic concentrations of nickel (II). <i>International Biodeterioration and Biodegradation</i> , 2018 , 129, 179-188	4.8	19
143	Biological treatment of selenium-laden wastewater containing nitrate and sulfate in an upflow anaerobic sludge bed reactor at pH 5.0. <i>Chemosphere</i> , 2018 , 211, 684-693	8.4	19
142	Influence of low pH (6, 5 and 4) on nutrient dynamics and characteristics of acidifying sulfate reducing granular sludge. <i>Process Biochemistry</i> , 2008 , 43, 1227-1238	4.8	19
141	Leachate flush strategies for managing volatile fatty acids accumulation in leach-bed reactors. <i>Bioresource Technology</i> , 2017 , 232, 93-102	11	18
140	Biosynthesis of CdSe nanoparticles by anaerobic granular sludge. <i>Environmental Science: Nano</i> , 2017 , 4, 824-833	7.1	18
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- 1 Surface volatilization modeling of (semi-)volatile hydrophobic organic compounds: The role of reference compounds. *Journal of Hazardous Materials*, **2022**, 424, 127300 12.8