

Eric D Van Hullebusch

List of Publications by Year in descending order

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Version: 2024-02-01

297
papers

14,726
citations

20817

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28297

105
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303
all docs

303
docs citations

303
times ranked

13323
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | 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. | 7.9 | 449 |
| 2 | 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. | 12.7 | 448 |
| 3 | Removal of hydrophobic organic pollutants from soil washing/flushing solutions: A critical review. <i>Journal of Hazardous Materials</i> , 2016, 306, 149-174. | 12.4 | 377 |
| 4 | Selenium: environmental significance, pollution, and biological treatment technologies. <i>Biotechnology Advances</i> , 2016, 34, 886-907. | 11.7 | 338 |
| 5 | 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. | 3.5 | 287 |
| 6 | 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. | 8.0 | 284 |
| 7 | Application of advanced oxidation processes for TNT removal: A review. <i>Journal of Hazardous Materials</i> , 2010, 178, 10-28. | 12.4 | 276 |
| 8 | 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, 1589-1599. | 3.6 | 248 |
| 9 | 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. | 10.3 | 237 |
| 10 | Electrochemical advanced oxidation and biological processes for wastewater treatment: a review of the combined approaches. <i>Environmental Science and Pollution Research</i> , 2014, 21, 8493-8524. | 5.3 | 227 |
| 11 | 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. | 12.8 | 219 |
| 12 | 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. | 12.4 | 215 |
| 13 | Electronic waste as a secondary source of critical metals: Management and recovery technologies. <i>Resources, Conservation and Recycling</i> , 2018, 135, 296-312. | 10.8 | 212 |
| 14 | Metal immobilisation by biofilms: Mechanisms and analytical tools. <i>Reviews in Environmental Science and Biotechnology</i> , 2003, 2, 9-33. | 8.1 | 205 |
| 15 | Sub-stoichiometric titanium oxide (Ti ₄ O ₇) 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. | 11.3 | 196 |
| 16 | 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, 4, 115-156. | 8.1 | 183 |
| 17 | Fungal pelleted reactors in wastewater treatment: Applications and perspectives. <i>Chemical Engineering Journal</i> , 2016, 283, 553-571. | 12.7 | 183 |
| 18 | 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. | 2.0 | 183 |

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|----|---|------|-----------|
| 19 | Two-step bioleaching of copper and gold from discarded printed circuit boards (PCB). Waste Management, 2016, 57, 149-157. | 7.4 | 180 |
| 20 | Role of extracellular polymeric substances (EPS) production in bioaggregation: application to wastewater treatment. Applied Microbiology and Biotechnology, 2015, 99, 9883-9905. | 3.6 | 177 |
| 21 | Occurrence and Removal of Organic Micropollutants in Landfill Leachates Treated by Electrochemical Advanced Oxidation Processes. Environmental Science & Technology, 2015, 49, 12187-12196. | 10.0 | 167 |
| 22 | Extracellular Polymeric Substances Govern the Surface Charge of Biogenic Elemental Selenium Nanoparticles. Environmental Science & Technology, 2015, 49, 1713-1720. | 10.0 | 158 |
| 23 | Reuse options for coal fired power plant bottom ash and fly ash. Reviews in Environmental Science and Biotechnology, 2014, 13, 467-486. | 8.1 | 152 |
| 24 | Trace Metals in Anaerobic Granular Sludge Reactors: Bioavailability and Dosing Strategies. Engineering in Life Sciences, 2006, 6, 293-301. | 3.6 | 146 |
| 25 | A complete phenol oxidation pathway obtained during electro-Fenton treatment and validated by a kinetic model study. Applied Catalysis B: Environmental, 2016, 180, 189-198. | 20.2 | 141 |
| 26 | 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. Chemical Engineering Journal, 2018, 350, 844-855. | 12.7 | 139 |
| 27 | Selenate removal in methanogenic and sulfate-reducing upflow anaerobic sludge bed reactors. Water Research, 2008, 42, 2184-2194. | 11.3 | 133 |
| 28 | Fe(II)-mediated autotrophic denitrification: A new bioprocess for iron bioprecipitation/biorecovery and simultaneous treatment of nitrate-containing wastewaters. International Biodeterioration and Biodegradation, 2017, 119, 631-648. | 3.9 | 132 |
| 29 | Emerging technologies for biofuel production: A critical review on recent progress, challenges and perspectives. Journal of Environmental Management, 2021, 290, 112627. | 7.8 | 122 |
| 30 | Adsorption of zinc by biogenic elemental selenium nanoparticles. Chemical Engineering Journal, 2015, 260, 855-863. | 12.7 | 119 |
| 31 | Comparative study on the removal of humic acids from drinking water by anodic oxidation and electro-Fenton processes: Mineralization efficiency and modelling. Applied Catalysis B: Environmental, 2016, 194, 32-41. | 20.2 | 119 |
| 32 | Combination of surfactant enhanced soil washing and electro-Fenton process for the treatment of soils contaminated by petroleum hydrocarbons. Journal of Environmental Management, 2015, 153, 40-47. | 7.8 | 118 |
| 33 | Comparison of three sequential extraction procedures to describe metal fractionation in anaerobic granular sludges. Talanta, 2005, 65, 549-558. | 5.5 | 117 |
| 34 | Influence of solubilizing agents (cyclodextrin or surfactant) on phenanthrene degradation by electro-Fenton process – Study of soil washing recycling possibilities and environmental impact. Water Research, 2014, 48, 306-316. | 11.3 | 108 |
| 35 | Perspectives regarding the use of metallurgical slags as secondary metal resources – A review of bioleaching approaches. Journal of Environmental Management, 2018, 219, 138-152. | 7.8 | 102 |
| 36 | Lead and cadmium biosorption by extracellular polymeric substances (EPS) extracted from activated sludges: pH-sorption edge tests and mathematical equilibrium modelling. Chemosphere, 2006, 64, 1955-1962. | 8.2 | 97 |

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|----|---|------|-----------|
| 37 | 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. | 12.7 | 97 |
| 38 | Metal chalcogenide quantum dots: biotechnological synthesis and applications. <i>RSC Advances</i> , 2016, 6, 41477-41495. | 3.6 | 94 |
| 39 | Effects of Silicon and Silicon-Based Nanoparticles on Rhizosphere Microbiome, Plant Stress and Growth. <i>Biology</i> , 2021, 10, 791. | 2.8 | 92 |
| 40 | Sorption of cobalt and nickel on anaerobic granular sludges: isotherms and sequential extraction. <i>Chemosphere</i> , 2005, 58, 493-505. | 8.2 | 89 |
| 41 | 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. | 12.8 | 89 |
| 42 | Copper Metallurgical Slags – Current Knowledge and Fate: A Review. <i>Critical Reviews in Environmental Science and Technology</i> , 2015, 45, 2424-2488. | 12.8 | 89 |
| 43 | Nitrate removal from groundwater: a review of natural and engineered processes. <i>Journal of Water Supply: Research and Technology - AQUA</i> , 2018, 67, 885-902. | 1.4 | 89 |
| 44 | 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. | 5.2 | 84 |
| 45 | Biotechnology in the management and resource recovery from metal bearing solid wastes: Recent advances. <i>Journal of Environmental Management</i> , 2018, 211, 138-153. | 7.8 | 84 |
| 46 | Characterization of the Mineral Fraction Associated to Extracellular Polymeric Substances (EPS) in Anaerobic Granular Sludges. <i>Environmental Science & Technology</i> , 2010, 44, 412-418. | 10.0 | 83 |
| 47 | Leaching and selective zinc recovery from acidic leachates of zinc metallurgical leach residues. <i>Journal of Hazardous Materials</i> , 2017, 324, 71-82. | 12.4 | 83 |
| 48 | 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. | 20.2 | 81 |
| 49 | Electro-Fenton treatment of a complex pharmaceutical mixture: Mineralization efficiency and biodegradability enhancement. <i>Chemosphere</i> , 2020, 253, 126659. | 8.2 | 78 |
| 50 | 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. | 3.9 | 77 |
| 51 | 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. | 12.8 | 77 |
| 52 | 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. | 11.3 | 77 |
| 53 | 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. | 5.0 | 76 |
| 54 | 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, 2959-2968. | 9.6 | 75 |

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|----|--|------|-----------|
| 55 | Removal of colloidal biogenic selenium from wastewater. <i>Chemosphere</i> , 2015, 125, 130-138. | 8.2 | 73 |
| 56 | Lead sorption by biochar produced from digestates: Consequences of chemical modification and washing. <i>Journal of Environmental Management</i> , 2018, 219, 277-284. | 7.8 | 71 |
| 57 | 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, 617-626. | 7.5 | 66 |
| 58 | Viscosity evolution of anaerobic granular sludge. <i>Biochemical Engineering Journal</i> , 2006, 27, 315-322. | 3.6 | 66 |
| 59 | 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. | 4.7 | 62 |
| 60 | 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, 159-165. | 9.6 | 62 |
| 61 | 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. | 8.1 | 62 |
| 62 | Effect of temperature on selenium removal from wastewater by UASB reactors. <i>Water Research</i> , 2016, 94, 146-154. | 11.3 | 62 |
| 63 | Preferential adsorption of Cu in a multi-metal mixture onto biogenic elemental selenium nanoparticles. <i>Chemical Engineering Journal</i> , 2016, 284, 917-925. | 12.7 | 62 |
| 64 | Bioelectro-Fenton: evaluation of a combined biological and advanced oxidation treatment for pharmaceutical wastewater. <i>Environmental Science and Pollution Research</i> , 2018, 25, 20283-20292. | 5.3 | 62 |
| 65 | 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. | 3.0 | 61 |
| 66 | 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. | 5.3 | 61 |
| 67 | 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, 627-634. | 7.5 | 60 |
| 68 | Fast and complete removal of the 5-fluorouracil drug from water by electro-Fenton oxidation. <i>Environmental Chemistry Letters</i> , 2018, 16, 281-286. | 16.2 | 60 |
| 69 | Preparation and applications of chitosan and cellulose composite materials. <i>Journal of Environmental Management</i> , 2022, 301, 113850. | 7.8 | 60 |
| 70 | 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, 161-168. | 5.0 | 59 |
| 71 | 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 | 59 |
| 72 | Granular sludge in full-scale anaerobic bioreactors: Trace element content and deficiencies. <i>Enzyme and Microbial Technology</i> , 2006, 39, 337-346. | 3.2 | 58 |

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|----|--|------|-----------|
| 73 | 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. | 12.4 | 58 |
| 74 | Characterization and pH-dependent leaching behaviour of historical and modern copper slags. <i>Journal of Geochemical Exploration</i> , 2016, 160, 1-15. | 3.2 | 57 |
| 75 | <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, 400-410. | 3.1 | 56 |
| 76 | Impact of electrochemical treatment of soil washing solution on PAH degradation efficiency and soil respirometry. <i>Environmental Pollution</i> , 2016, 211, 354-362. | 7.5 | 56 |
| 77 | Effect of heavy metal co-contaminants on selenite bioreduction by anaerobic granular sludge. <i>Bioresource Technology</i> , 2016, 206, 1-8. | 9.6 | 56 |
| 78 | Evaluation of size exclusion chromatography (SEC) for the characterization of extracellular polymeric substances (EPS) in anaerobic granular sludges. <i>Bioresource Technology</i> , 2009, 100, 6258-6268. | 9.6 | 55 |
| 79 | Phosphorus Removal from Wastewater: The Potential Use of Biochar and the Key Controlling Factors. <i>Water (Switzerland)</i> , 2021, 13, 517. | 2.7 | 55 |
| 80 | 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. | 3.0 | 54 |
| 81 | Application of Zn isotopes in environmental impact assessment of Zn–Pb metallurgical industries: A mini review. <i>Applied Geochemistry</i> , 2016, 64, 128-135. | 3.0 | 54 |
| 82 | 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. | 7.4 | 54 |
| 83 | 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. | 8.1 | 53 |
| 84 | Performance of a compost and biochar packed biofilter for gas-phase hydrogen sulfide removal. <i>Bioresource Technology</i> , 2019, 273, 581-591. | 9.6 | 52 |
| 85 | 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, 8406-8416. | 5.3 | 51 |
| 86 | Production, recovery and reuse of biogenic elemental selenium. <i>Environmental Chemistry Letters</i> , 2015, 13, 89-96. | 16.2 | 51 |
| 87 | 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. | 2.6 | 51 |
| 88 | Nickel and cobalt sorption on anaerobic granular sludges: kinetic and equilibrium studies. <i>Journal of Chemical Technology and Biotechnology</i> , 2004, 79, 1219-1227. | 3.2 | 50 |
| 89 | Entrapped elemental selenium nanoparticles affect physicochemical properties of selenium fed activated sludge. <i>Journal of Hazardous Materials</i> , 2015, 295, 193-200. | 12.4 | 50 |
| 90 | 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, 62-69. | 7.8 | 50 |

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|-----|---|------|-----------|
| 91 | Continuous removal and recovery of tellurium in an upflow anaerobic granular sludge bed reactor. <i>Journal of Hazardous Materials</i> , 2017, 327, 79-88. | 12.4 | 50 |
| 92 | Role of lignin and thermophilic lignocellulolytic bacteria in the evolution of humification indices and enzymatic activities during compost production. <i>Waste Management</i> , 2021, 119, 122-134. | 7.4 | 50 |
| 93 | Bioconversion of Selenate in Methanogenic Anaerobic Granular Sludge. <i>Journal of Environmental Quality</i> , 2006, 35, 1873-1883. | 2.0 | 49 |
| 94 | 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. | 12.4 | 49 |
| 95 | Metal binding properties of extracellular polymeric substances extracted from anaerobic granular sludges. <i>Environmental Science and Pollution Research</i> , 2013, 20, 4509-4519. | 5.3 | 48 |
| 96 | 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. | 8.0 | 48 |
| 97 | 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. | 7.9 | 47 |
| 98 | Effects of selenium oxyanions on the white-rot fungus <i>Phanerochaete chrysosporium</i> . <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 2405-2418. | 3.6 | 47 |
| 99 | 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. | 3.9 | 47 |
| 100 | Beneficial role of biochar addition on the anaerobic digestion of food waste: A systematic and critical review of the operational parameters and mechanisms. <i>Journal of Environmental Management</i> , 2021, 290, 112537. | 7.8 | 47 |
| 101 | Effect of Cobalt Sorption on Metal Fractionation in Anaerobic Granular Sludge. <i>Journal of Environmental Quality</i> , 2004, 33, 1256. | 2.0 | 46 |
| 102 | Zn ²⁺ /Ni sulfide selective precipitation: The role of supersaturation. <i>Separation and Purification Technology</i> , 2010, 74, 108-118. | 7.9 | 45 |
| 103 | Electrocoagulation of colloidal biogenic selenium. <i>Environmental Science and Pollution Research</i> , 2015, 22, 3127-3137. | 5.3 | 45 |
| 104 | Cobalt toxicity in anaerobic granular sludge: influence of chemical speciation. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2008, 35, 1465-1474. | 3.0 | 44 |
| 105 | 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. | 5.3 | 44 |
| 106 | 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. | 3.9 | 43 |
| 107 | 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. | 12.7 | 43 |
| 108 | Anaerobic Digestion of Fruit Waste Mixed With Sewage Sludge Digestate Biochar: Influence on Biomethane Production. <i>Frontiers in Energy Research</i> , 2020, 8, . | 2.3 | 43 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 109 | Effects of physico-chemical factors on the viscosity evolution of anaerobic granular sludge. <i>Biochemical Engineering Journal</i> , 2009, 43, 231-238. | 3.6 | 42 |
| 110 | Selenium Speciation Assessed by X-Ray Absorption Spectroscopy of Sequentially Extracted Anaerobic Biofilms. <i>Environmental Science & Technology</i> , 2008, 42, 7587-7593. | 10.0 | 41 |
| 111 | Metal mobilization from metallurgical wastes by soil organic acids. <i>Chemosphere</i> , 2017, 178, 197-211. | 8.2 | 41 |
| 112 | Nano-biochar: A novel solution for sustainable agriculture and environmental remediation. <i>Environmental Research</i> , 2022, 210, 112891. | 7.5 | 41 |
| 113 | Behaviour of different cementitious material formulations in sewer networks. <i>Water Science and Technology</i> , 2014, 69, 1502-1508. | 2.5 | 40 |
| 114 | Fluidized-bed denitrification of mining water tolerates high nickel concentrations. <i>Bioresource Technology</i> , 2015, 179, 284-290. | 9.6 | 40 |
| 115 | Higher Cd adsorption on biogenic elemental selenium nanoparticles. <i>Environmental Chemistry Letters</i> , 2016, 14, 381-386. | 16.2 | 40 |
| 116 | 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. | 12.8 | 40 |
| 117 | WEEE management in a circular economy perspective: an overview. <i>Global Nest Journal</i> , 2018, 20, 743-750. | 0.1 | 40 |
| 118 | Copper and trace element fractionation in electrokinetically treated methanogenic anaerobic granular sludge. <i>Environmental Pollution</i> , 2005, 138, 517-528. | 7.5 | 39 |
| 119 | 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. | 9.6 | 39 |
| 120 | Citric acid- and Tween® 80-assisted phytoremediation of a co-contaminated soil: alfalfa (<i>Medicago</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf s 23, 9215-9226. | 5.3 | 39 |
| 121 | Biomining of tellurium and selenium-tellurium nanoparticles by the white-rot fungus <i>Phanerochaete chrysosporium</i> . <i>International Biodeterioration and Biodegradation</i> , 2017, 124, 258-266. | 3.9 | 39 |
| 122 | Biological removal of selenate and ammonium by activated sludge in a sequencing batch reactor. <i>Bioresource Technology</i> , 2017, 229, 11-19. | 9.6 | 38 |
| 123 | Sorption of zinc onto elemental selenium nanoparticles immobilized in <i>Phanerochaete chrysosporium</i> pellets. <i>Environmental Science and Pollution Research</i> , 2016, 23, 21619-21630. | 5.3 | 37 |
| 124 | Reduction of selenite to elemental selenium nanoparticles by activated sludge. <i>Environmental Science and Pollution Research</i> , 2016, 23, 1193-1202. | 5.3 | 37 |
| 125 | Laboratory investigation of the phosphorus removal (SRP and TP) from eutrophic lake water treated with aluminium. <i>Water Research</i> , 2006, 40, 2713-2719. | 11.3 | 36 |
| 126 | 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. | 3.9 | 36 |

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|-----|--|------|-----------|
| 127 | The Fate of Copper Added to Surface Water: Field, Laboratory, and Modeling Studies. Environmental Toxicology and Chemistry, 2019, 38, 1386-1399. | 4.3 | 36 |
| 128 | Effect of total solids content on methane and volatile fatty acid production in anaerobic digestion of food waste. Waste Management and Research, 2014, 32, 947-953. | 3.9 | 35 |
| 129 | Coal Bottom Ash as Sorbing Material for Fe(II), Cu(II), Mn(II), and Zn(II) Removal from Aqueous Solutions. Water, Air, and Soil Pollution, 2015, 226, 1. | 2.4 | 35 |
| 130 | Importance of organic amendment characteristics on bioremediation of PAH-contaminated soil. Environmental Science and Pollution Research, 2016, 23, 15041-15052. | 5.3 | 35 |
| 131 | ADM1 based mathematical model of trace element precipitation/dissolution in anaerobic digestion processes. Bioresource Technology, 2018, 267, 666-676. | 9.6 | 35 |
| 132 | Role of Design and Operational Factors in the Removal of Pharmaceuticals by Constructed Wetlands. Water (Switzerland), 2019, 11, 2356. | 2.7 | 35 |
| 133 | Role of Biochar in Anaerobic Digestion Based Biorefinery for Food Waste. Frontiers in Energy Research, 2019, 7, . | 2.3 | 34 |
| 134 | Assessing arsenic redox state evolution in solution and solid phase during As(III) sorption onto chemically-treated sewage sludge digestate biochars. Bioresource Technology, 2019, 275, 232-238. | 9.6 | 34 |
| 135 | Title is missing!. Water, Air, and Soil Pollution, 2003, 146, 75-91. | 2.4 | 33 |
| 136 | Influence of the binder on the behaviour of mortars exposed to H ₂ S in sewer networks: a long-term durability study. Materials and Structures/Materiaux Et Constructions, 2017, 50, 1. | 3.1 | 33 |
| 137 | Cobalt sorption onto anaerobic granular sludge: Isotherm and spatial localization analysis. Journal of Biotechnology, 2006, 121, 227-240. | 3.8 | 32 |
| 138 | Effects of different nickel species on autotrophic denitrification driven by thiosulfate in batch tests and a fluidized-bed reactor. Bioresource Technology, 2017, 238, 534-541. | 9.6 | 32 |
| 139 | Electro-Fenton removal of TNT: Evidences of the electro-chemical reduction contribution. Applied Catalysis B: Environmental, 2011, 104, 169-176. | 20.2 | 31 |
| 140 | Title is missing!. Water, Air, and Soil Pollution, 2003, 150, 3-22. | 2.4 | 30 |
| 141 | ADM1 based mathematical model of trace element complexation in anaerobic digestion processes. Bioresource Technology, 2019, 276, 253-259. | 9.6 | 30 |
| 142 | Modified Anaerobic Digestion Model No.1 for dry and semi-dry anaerobic digestion of solid organic waste. Environmental Technology (United Kingdom), 2015, 36, 870-880. | 2.2 | 29 |
| 143 | Bacterially-mediated weathering of crystalline and amorphous Cu-slugs. Applied Geochemistry, 2016, 64, 92-106. | 3.0 | 29 |
| 144 | A review on the efficiency of landfarming integrated with composting as a soil remediation treatment. Environmental Technology Reviews, 2017, 6, 94-116. | 4.3 | 29 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 145 | 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. | 8.2 | 29 |
| 146 | Biological sulfate removal from gypsum contaminated construction and demolition debris. <i>Journal of Environmental Management</i> , 2013, 131, 82-91. | 7.8 | 28 |
| 147 | Bioweathering of lead blast furnace metallurgical slags by <i>Pseudomonas aeruginosa</i> . <i>International Biodeterioration and Biodegradation</i> , 2014, 86, 372-381. | 3.9 | 28 |
| 148 | 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, 1067-1073. | 10.0 | 27 |
| 149 | Evaluation on chemical stability of lead blast furnace (LBF) and imperial smelting furnace (ISF) slags. <i>Journal of Environmental Management</i> , 2016, 180, 310-323. | 7.8 | 27 |
| 150 | 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. | 8.2 | 27 |
| 151 | Morphology, Mineralogy, and Solid–Liquid Phase Separation Characteristics of Cu and Zn Precipitates Produced with Biogenic Sulfide. <i>Environmental Science & Technology</i> , 2014, 48, 664-673. | 10.0 | 26 |
| 152 | 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. | 12.4 | 26 |
| 153 | Performance Comparison of Different Constructed Wetlands Designs for the Removal of Personal Care Products. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 3091. | 2.6 | 26 |
| 154 | Mineralogy and metals speciation in Mo rich mineral sludges generated at a metal recycling plant. <i>Waste Management</i> , 2015, 38, 303-311. | 7.4 | 25 |
| 155 | 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. | 3.9 | 25 |
| 156 | Bacterial seeding potential of digestate in bioremediation of diesel contaminated soil. <i>International Biodeterioration and Biodegradation</i> , 2019, 143, 104715. | 3.9 | 25 |
| 157 | Proteomic insights into <i>Lysinibacillus</i> sp.-mediated biosolubilization of manganese. <i>Environmental Science and Pollution Research</i> , 2021, 28, 40249-40263. | 5.3 | 25 |
| 158 | Fractionation and leachability of heavy metals from aged and recent Zn metallurgical leach residues from the Tr  s Marias zinc plant (Minas Gerais, Brazil). <i>Environmental Science and Pollution Research</i> , 2016, 23, 7504-7516. | 5.3 | 24 |
| 159 | Effect of Cu, Ni and Zn on Fe(II)-driven autotrophic denitrification. <i>Journal of Environmental Management</i> , 2018, 218, 209-219. | 7.8 | 24 |
| 160 | Leaching and Selective Recovery of Cu from Printed Circuit Boards. <i>Metals</i> , 2019, 9, 1034. | 2.3 | 24 |
| 161 | Bioleaching and selective biorecovery of zinc from zinc metallurgical leach residues from the Tr  s Marias zinc plant (Minas Gerais, Brazil). <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 512-521. | 3.2 | 23 |
| 162 | Leachate flush strategies for managing volatile fatty acids accumulation in leach-bed reactors. <i>Bioresource Technology</i> , 2017, 232, 93-102. | 9.6 | 23 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 163 | Biosynthesis of CdSe nanoparticles by anaerobic granular sludge. <i>Environmental Science: Nano</i> , 2017, 4, 824-833. | 4.3 | 23 |
| 164 | Recovery of phosphorus from municipal wastewater treatment sludge through bioleaching using <i>Acidithiobacillus thiooxidans</i> . <i>Journal of Environmental Management</i> , 2020, 270, 110818. | 7.8 | 23 |
| 165 | Seasonal and spatial variations in atmospheric PM _{2.5} -bound PAHs in Karaj city, Iran: Sources, distributions, and health risks. <i>Sustainable Cities and Society</i> , 2021, 72, 103020. | 10.4 | 23 |
| 166 | Influence of pH shocks on trace metal dynamics and performance of methanol fed granular sludge bioreactors. <i>Biodegradation</i> , 2005, 16, 549-567. | 3.0 | 22 |
| 167 | Induction of cobalt limitation in methanol-fed UASB reactors. <i>Journal of Chemical Technology and Biotechnology</i> , 2006, 81, 1486-1495. | 3.2 | 22 |
| 168 | Effect of moisture on disintegration kinetics during anaerobic digestion of complex organic substrates. <i>Waste Management and Research</i> , 2014, 32, 40-48. | 3.9 | 22 |
| 169 | The Efficacy of Ozone/BAC Treatment on Non-Steroidal Anti-Inflammatory Drug Removal from Drinking Water and Surface Water. <i>Ozone: Science and Engineering</i> , 2015, 37, 343-356. | 2.5 | 22 |
| 170 | A review on the occurrence, fate and removal of steroidal hormones during treatment with different types of constructed wetlands. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103793. | 6.7 | 22 |
| 171 | A new micelle-based method to quantify the Tween 80® surfactant for soil remediation. <i>Agronomy for Sustainable Development</i> , 2013, 33, 839-846. | 5.3 | 21 |
| 172 | Recovery of molybdenum, nickel and cobalt by precipitation from the acidic leachate of a mineral sludge. <i>Environmental Technology (United Kingdom)</i> , 2016, 37, 2231-2242. | 2.2 | 21 |
| 173 | Comparison of the mesophilic and thermophilic anaerobic digestion of spent cow bedding in leach-bed reactors. <i>Bioresource Technology</i> , 2017, 234, 466-471. | 9.6 | 21 |
| 174 | Impact of iron chelators on short-term dissolution of basaltic glass. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 162, 83-98. | 3.9 | 20 |
| 175 | Colloidal Mobilization and Fate of Trace Heavy Metals in Semi-Saturated Artificial Soil (OECD) Irrigated with Treated Wastewater. <i>Sustainability</i> , 2016, 8, 1257. | 3.2 | 20 |
| 176 | Selenate removal in biofilm systems: effect of nitrate and sulfate on selenium removal efficiency, biofilm structure and microbial community. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 2380-2389. | 3.2 | 20 |
| 177 | Functional potential of sewage sludge digestate microbes to degrade aliphatic hydrocarbons during bioremediation of a petroleum hydrocarbons contaminated soil. <i>Journal of Environmental Management</i> , 2021, 280, 111648. | 7.8 | 20 |
| 178 | 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. | 3.7 | 19 |
| 179 | Hydrodynamic Mathematical Modelling of Aerobic Plug Flow and Nonideal Flow Reactors: A Critical and Historical Review. <i>Critical Reviews in Environmental Science and Technology</i> , 2014, 44, 2642-2673. | 12.8 | 19 |
| 180 | Browning Phenomenon of Medieval Stained Glass Windows. <i>Analytical Chemistry</i> , 2015, 87, 3662-3669. | 6.5 | 19 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 181 | Bio-alteration of metallurgical wastes by <i>Pseudomonas aeruginosa</i> in a semi flow-through reactor. <i>Journal of Environmental Management</i> , 2015, 147, 297-305. | 7.8 | 19 |
| 182 | Calibration and Validation of a Two-Step Kinetic Mathematical Model for Predicting Cu Extraction Efficiency in an EDDS-Enhanced Soil Washing. <i>Water, Air, and Soil Pollution</i> , 2016, 227, 1. | 2.4 | 19 |
| 183 | Investigation of different ethylenediamine-N,Nâ€²-disuccinic acid-enhanced washing configurations for remediation of a Cu-contaminated soil: process kinetics and efficiency comparison between single-stage and multi-stage configurations. <i>Environmental Science and Pollution Research</i> , 2017, 24, 21960-21972. | 5.3 | 19 |
| 184 | Gas-liquid oxygen transfer in aerated and agitated slurry systems with high solid volume fractions. <i>Chemical Engineering Journal</i> , 2018, 350, 1073-1083. | 12.7 | 19 |
| 185 | Thermal and chemical enhanced recovery of heavy chlorinated organic compounds in saturated porous media: 1D cell drainage-imbibition experiments. <i>Science of the Total Environment</i> , 2020, 706, 135758. | 8.0 | 19 |
| 186 | Comparison of thermal and chemical enhanced recovery of DNAPL in saturated porous media: 2D tank pumping experiments and two-phase flow modelling. <i>Science of the Total Environment</i> , 2021, 760, 143958. | 8.0 | 19 |
| 187 | Identification of rheological parameters describing the physico-chemical properties of anaerobic sulphidogenic sludge suspensions. <i>Enzyme and Microbial Technology</i> , 2007, 40, 547-554. | 3.2 | 18 |
| 188 | TNT oxidation by Fenton reaction: Reagent ratio effect on kinetics and early stage degradation pathways. <i>Chemical Engineering Journal</i> , 2011, 173, 309-317. | 12.7 | 18 |
| 189 | Weathering of historical copper slags in dynamic experimental system with rhizosphere-like organic acids. <i>Journal of Environmental Management</i> , 2018, 222, 325-337. | 7.8 | 18 |
| 190 | Mineral characterization of the biogenic Fe(III)(hydr)oxides produced during Fe(II)-driven denitrification with Cu, Ni and Zn. <i>Science of the Total Environment</i> , 2019, 687, 401-412. | 8.0 | 18 |
| 191 | Uranium(VI) Scavenging by Amorphous Iron Phosphate Encrusting <i>Sphaerotilus natans</i> Filaments. <i>Environmental Science & Technology</i> , 2015, 49, 14065-14075. | 10.0 | 17 |
| 192 | Effect of selenite on the morphology and respiratory activity of <i>Phanerochaete chrysosporium</i> biofilms. <i>Bioresource Technology</i> , 2016, 210, 138-145. | 9.6 | 17 |
| 193 | (Bio)leaching Behavior of Chromite Tailings. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 261. | 2.0 | 17 |
| 194 | Towards a Cross-Sectoral View of Nature-Based Solutions for Enabling Circular Cities. <i>Water (Switzerland)</i> , 2021, 13, 2352. | 2.7 | 17 |
| 195 | Effect of sulfate and iron on physico-chemical characteristics of anaerobic granular sludge. <i>Biochemical Engineering Journal</i> , 2007, 33, 168-177. | 3.6 | 16 |
| 196 | <i>Sphaerotilus natans</i> , a Neutrophilic Iron-Related Sheath-Forming Bacterium: Perspectives for Metal Remediation Strategies. <i>Geomicrobiology Journal</i> , 2014, 31, 64-75. | 2.0 | 16 |
| 197 | On the difficulties of being rigorous in environmental geochemistry studies: some recommendations for designing an impactful paper. <i>Environmental Science and Pollution Research</i> , 2020, 27, 1267-1275. | 5.3 | 16 |
| 198 | Processing of Waste Copper Converter Slag Using Organic Acids for Extraction of Copper, Nickel, and Cobalt. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 290. | 2.0 | 16 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 199 | Leaching and selective copper recovery from acidic leachates of TrÃ's Marias zinc plant (MG, Brazil) metallurgical purification residues. <i>Journal of Environmental Management</i> , 2016, 177, 26-35. | 7.8 | 15 |
| 200 | Hydrophobic molecular features of EPS extracted from anaerobic granular sludge treating wastewater from a paper recycling plant. <i>Process Biochemistry</i> , 2017, 58, 266-275. | 3.7 | 15 |
| 201 | A simultaneous assessment of organic matter and trace elements bio-accessibility in substrate and digestate from an anaerobic digestion plant. <i>Bioresource Technology</i> , 2019, 288, 121587. | 9.6 | 15 |
| 202 | Effect of elevated nitrate and sulfate concentrations on selenate removal by mesophilic anaerobic granular sludge bed reactors. <i>Environmental Science: Water Research and Technology</i> , 2018, 4, 303-314. | 2.4 | 15 |
| 203 | Effect of Sulfur Source on the Performance and Metal Retention of Methanol-Fed UASB Reactors. <i>Biotechnology Progress</i> , 2008, 21, 839-850. | 2.6 | 14 |
| 204 | Methane and VFA production in anaerobic digestion of rice straw under dry, semi-dry and wet conditions during start-up phase. <i>Environmental Technology (United Kingdom)</i> , 2016, 37, 505-512. | 2.2 | 14 |
| 205 | Zn isotopes fractionation during slags' weathering: One source of contamination, multiple isotopic signatures. <i>Chemosphere</i> , 2018, 195, 483-490. | 8.2 | 14 |
| 206 | Evaluation of Fe(II)-driven autotrophic denitrification in packed-bed reactors at different nitrate loading rates. <i>Chemical Engineering Research and Design</i> , 2020, 142, 317-324. | 5.6 | 14 |
| 207 | Enrichment of Anammox Biomass from Different Seeding Sludge: Process Strategy and Microbial Diversity. <i>Water, Air, and Soil Pollution</i> , 2017, 228, 1. | 2.4 | 13 |
| 208 | The Influence of Design and Operational Factors on the Removal of Personal Care Products by Constructed Wetlands. <i>Water (Switzerland)</i> , 2020, 12, 1367. | 2.7 | 13 |
| 209 | Phytotoxicity of Citric Acid and Tween® 80 for Potential Use as Soil Amendments in Enhanced Phytoremediation. <i>International Journal of Phytoremediation</i> , 2015, 17, 669-677. | 3.1 | 12 |
| 210 | Evaluation of PAH removal efficiency in an artificial soil amended with different types of organic wastes. <i>Euro-Mediterranean Journal for Environmental Integration</i> , 2016, 1, 1. | 1.3 | 12 |
| 211 | Industrial Selenium Pollution: Sources and Biological Treatment Technologies. , 2017, , 75-101. | | 12 |
| 212 | Prediction of the removal efficiency of emerging organic contaminants based on design and operational parameters of constructed wetlands. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104592. | 6.7 | 12 |
| 213 | Role of organic matter in copper mobility in a polymictic lake following copper sulfate treatment (Courtille Lake, France). <i>Environmental Technology (United Kingdom)</i> , 2003, 24, 787-796. | 2.2 | 11 |
| 214 | ElectroâOxidation of the Pharmaceutical Furosemide: Kinetics, Mechanism, and ByâProducts. <i>Clean - Soil, Air, Water</i> , 2015, 43, 1455-1463. | 1.1 | 11 |
| 215 | Moderate oxygen depletion as a factor favouring the filamentous growth of <i>Sphaerotilus natans</i> . <i>Antonie Van Leeuwenhoek</i> , 2015, 107, 1135-1144. | 1.7 | 11 |
| 216 | Modified Sample Preparation Approach for the Determination of the Phenolic and Humic-Like Substances in Natural Organic Materials By the Folin Ciocalteu Method. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 10666-10672. | 5.2 | 11 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 217 | Amberlite IRA-900 Ion Exchange Resin for the Sorption of Selenate and Sulfate: Equilibrium, Kinetic, and Regeneration Studies. <i>Journal of Environmental Engineering, ASCE</i> , 2018, 144, 04018110. | 1.4 | 11 |
| 218 | Effect of sodium concentration on mobilization and fate of trace metals in standard OECD soil. <i>Environmental Pollution</i> , 2019, 250, 839-848. | 7.5 | 11 |
| 219 | Chromium mobility in ultramafic areas affected by mining activities in Barro Alto massif, Brazil: An isotopic study. <i>Chemical Geology</i> , 2021, 561, 120000. | 3.3 | 11 |
| 220 | Microbial Processing of Waste Shredded PCBs for Copper Extraction Cum Separation—Comparing the Efficacy of Bacterial and Fungal Leaching Kinetics and Yields. <i>Metals</i> , 2021, 11, 317. | 2.3 | 11 |
| 221 | Nature-Based Units as Building Blocks for Resource Recovery Systems in Cities. <i>Water (Switzerland)</i> , 2021, 13, 3153. | 2.7 | 11 |
| 222 | Effect of inoculum and sludge concentration on viscosity evolution of anaerobic granular sludges. <i>Water Science and Technology</i> , 2005, 52, 509-514. | 2.5 | 10 |
| 223 | Sulfur K-edge XANES spectroscopy as a tool for understanding sulfur chemical state in anaerobic granular sludge. <i>Journal of Physics: Conference Series</i> , 2009, 190, 012184. | 0.4 | 10 |
| 224 | Current Views on Hydrodynamic Models of Nonideal Flow Anaerobic Reactors. <i>Critical Reviews in Environmental Science and Technology</i> , 2015, 45, 2175-2207. | 12.8 | 10 |
| 225 | Effect of various size exclusion chromatography (SEC) columns on the fingerprints of extracellular polymeric substances (EPS) extracted from biological sludge. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2015, 49, 148-155. | 5.3 | 10 |
| 226 | Fate of Trace Metals in Anaerobic Digestion. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2015, 151, 171-195. | 1.1 | 10 |
| 227 | Influence of activated sewage sludge amendment on PAH removal efficiency from a naturally contaminated soil: application of the landfarming treatment. <i>Environmental Technology (United Kingdom)</i> , 2014, 35, 1074-1084. | 0.78 | 10 |
| 228 | Hydrophobic features of EPS extracted from anaerobic granular sludge: an investigation based on DAX-8 resin fractionation and size exclusion chromatography. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 3427-3438. | 3.6 | 10 |
| 229 | Leaching and Recovery of Metals. <i>Environmental Chemistry for A Sustainable World</i> , 2017, , 161-206. | 0.5 | 10 |
| 230 | Simultaneous removal of sulfate and selenate from wastewater by process integration of an ion exchange column and upflow anaerobic sludge blanket bioreactor. <i>Separation Science and Technology</i> , 2019, 54, 1387-1399. | 2.5 | 10 |
| 231 | Use of factorial experimental design to study the effects of iron and sulfur on growth of <i>Scenedesmus acuminatus</i> with different nitrogen sources. <i>Journal of Applied Phycology</i> , 2020, 32, 221-231. | 2.8 | 9 |
| 232 | A general framework to model the fate of trace elements in anaerobic digestion environments. <i>Scientific Reports</i> , 2021, 11, 7476. | 3.3 | 9 |
| 233 | Supramolecular aggregation of colloidal natural organic matter masks priority pollutants released in water from peat soil. <i>Environmental Research</i> , 2021, 195, 110761. | 7.5 | 9 |
| 234 | The anaerobic biodegradation of emerging organic contaminants by horizontal subsurface flow constructed wetlands. <i>Water Science and Technology</i> , 2021, 83, 2809-2828. | 2.5 | 9 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 235 | White biotechnology and the production of bio-products. <i>Systems Microbiology and Biomanufacturing</i> , 2022, 2, 413-429. | 2.9 | 9 |
| 236 | A Review on Biotechnological Approaches Applied for Marine Hydrocarbon Spills Remediation. <i>Microorganisms</i> , 2022, 10, 1289. | 3.6 | 9 |
| 237 | Quantitative and qualitative characterization of extracellular polymeric substances from Anammox enrichment. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 80, 738-746. | 5.3 | 8 |
| 238 | Two-Step Leaching of Valuable Metals from Discarded Printed Circuit Boards, and Process Optimization Using Response Surface Methodology. <i>Advances in Recycling & Waste Management</i> , 2017, 02, . | 0.4 | 8 |
| 239 | Electrocatalytic removal of fluoroquinolones from simulated pharmaceutical effluent: Chemometric analysis, chemical blueprint of electrodes and generated sludge. <i>Environmental Research</i> , 2021, 195, 110844. | 7.5 | 8 |
| 240 | Effect of Different Enriched Vermicomposts, Humic Acid Extract and Indole-3-Acetic Acid Amendments on the Growth of <i>Brassica napus</i> . <i>Plants</i> , 2022, 11, 227. | 3.5 | 8 |
| 241 | Effects of biochar dose on cadmium accumulation in spinach and its fractionation in a calcareous soil. <i>Arabian Journal of Geosciences</i> , 2022, 15, 1. | 1.3 | 8 |
| 242 | Acid extraction of molybdenum, nickel and cobalt from mineral sludge generated by rainfall water at a metal recycling plant. <i>Environmental Technology (United Kingdom)</i> , 2016, 37, 630-639. | 2.2 | 7 |
| 243 | Biorecovery of Metals from Electronic Waste. <i>Environmental Chemistry for A Sustainable World</i> , 2017, , 241-278. | 0.5 | 7 |
| 244 | The growth of open access publishing in geochemistry. <i>Results in Geochemistry</i> , 2020, 1, 100001. | 0.8 | 7 |
| 245 | Open Access publishing practice in geochemistry: overview of current state and look to the future. <i>Heliyon</i> , 2020, 6, e03551. | 3.2 | 7 |
| 246 | Effect of cadmium on sorghum root colonization by glomerular fungi and its impact on total and easily extractable glomalin production. <i>Environmental Science and Pollution Research</i> , 2021, 28, 34570-34583. | 5.3 | 7 |
| 247 | Prediction of the removal efficiency of emerging organic contaminants in constructed wetlands based on their physicochemical properties. <i>Journal of Environmental Management</i> , 2021, 294, 112916. | 7.8 | 7 |
| 248 | Bioaugmentation of thermophilic lignocellulose degrading bacteria accelerate the composting process of lignocellulosic materials. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 15887-15901. | 4.6 | 7 |
| 249 | Immobilization of Metal Ions from Acid Mine Drainage by Coal Bottom Ash. <i>Water, Air, and Soil Pollution</i> , 2017, 228, 1. | 2.4 | 6 |
| 250 | Bioleaching kinetics of trace metals from coal ash using <i>Pseudomonas</i> spp. <i>MATEC Web of Conferences</i> , 2019, 268, 01010. | 0.2 | 6 |
| 251 | Biodeterioration Affecting Efficiency and Lifetime of Plastic-Based Photovoltaics. <i>Joule</i> , 2020, 4, 2088-2100. | 24.0 | 6 |
| 252 | Permittivity and electrical resistivity measurements and estimations during the recovery of DNAPL in saturated porous media: 2D tank experiments. <i>Journal of Applied Geophysics</i> , 2021, 191, 104359. | 2.1 | 6 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 253 | Removal of antimonate (Sb(V)) from aqueous solutions and its immobilization in soils with a novel Fe(III)-modified montmorillonite sorbent. <i>Environmental Science and Pollution Research</i> , 2022, 29, 2073-2083. | 5.3 | 6 |
| 254 | Chemical, Leaching, and Toxicity Characteristics of Coal Ashes from Circulating Fluidized Bed of a Philippine Coal-Fired Power Plant. <i>Water, Air, and Soil Pollution</i> , 2015, 226, 1. | 2.4 | 5 |
| 255 | Decolourization of Real Textile Wastewater by the Combination of Photocatalytic and Biological Oxidation Processes. <i>Advances in Science, Technology and Innovation</i> , 2018, , 115-117. | 0.4 | 5 |
| 256 | Potential Use of Waste-to-Bioenergy By-Products in Bioremediation of Total Petroleum Hydrocarbons (TPH)-Contaminated Soils. <i>Applied Environmental Science and Engineering for A Sustainable Future</i> , 2020, , 239-282. | 0.5 | 5 |
| 257 | A decision tree framework to support design, operation, and performance assessment of constructed wetlands for the removal of emerging organic contaminants. <i>Science of the Total Environment</i> , 2021, 760, 143334. | 8.0 | 5 |
| 258 | Cadmium Selenide Formation Influences the Production and Characteristics of Extracellular Polymeric Substances of Anaerobic Granular Sludge. <i>Applied Biochemistry and Biotechnology</i> , 2021, 193, 965-980. | 2.9 | 5 |
| 259 | Editorial: Eco-Sustainable Bioremediation of Textile Dye Wastewaters: Innovative Microbial Treatment Technologies and Mechanistic Insights of Textile Dye Biodegradation. <i>Frontiers in Microbiology</i> , 2021, 12, 707083. | 3.5 | 5 |
| 260 | Phytoremediation of Polycyclic Aromatic Hydrocarbons-Contaminated Soils. <i>Soil Biology</i> , 2021, , 419-445. | 0.8 | 5 |
| 261 | Oxidation state variation under I^{2-} -irradiation in an iron-bearing soda lime glass system. <i>Journal of Physics: Conference Series</i> , 2009, 190, 012194. | 0.4 | 4 |
| 262 | Understanding Selenium Biogeochemistry in Engineered Ecosystems: Transformation and Analytical Methods. , 2017, , 33-56. | | 4 |
| 263 | Assessing chromium mobility in natural surface waters: Colloidal contribution to the isotopically exchangeable pool of chromium (EwCr value). <i>Applied Geochemistry</i> , 2018, 92, 19-29. | 3.0 | 4 |
| 264 | Industrial Selenium Pollution: Wastewaters and Physical–Chemical Treatment Technologies. , 2017, , 103-130. | | 4 |
| 265 | Potential Use of <i>Ascophyllum nodosum</i> as a Biostimulant for Improving the Growth Performance of <i>Vigna aconitifolia</i> (Jacq.) Marechal. <i>Plants</i> , 2021, 10, 2361. | 3.5 | 4 |
| 266 | Editorial: Microbial Biominerals: Toward New Functions and Resource Recovery. <i>Frontiers in Microbiology</i> , 2021, 12, 796374. | 3.5 | 4 |
| 267 | Bioleaching of trace metals from coal ash using local isolate from coal ash ponds. <i>MATEC Web of Conferences</i> , 2018, 156, 03031. | 0.2 | 3 |
| 268 | Assessment of the DGT technique in digestate to fraction twelve trace elements. <i>Talanta</i> , 2019, 192, 204-211. | 5.5 | 3 |
| 269 | Editorial: Advanced Bioremediation Technologies and Processes for the Treatment of Synthetic Organic Compounds. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 721319. | 4.1 | 3 |
| 270 | Influence of Phosphonic Acids and Edta on Bacterial Copper Toxicity. <i>Toxicological and Environmental Chemistry</i> , 2002, 82, 75-91. | 1.2 | 2 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 271 | Electro-Fenton Treatment of TNT in Aqueous Media in Presence of Cyclodextrin. Application to Ex-situ Treatment of Contaminated Soil. Journal of Advanced Oxidation Technologies, 2009, 12, . | 0.5 | 2 |
| 272 | Mineralogy, environment and health. European Journal of Mineralogy, 2010, 22, 627-627. | 1.3 | 2 |
| 273 | Response to the comment on "Copper metallurgical slags - current knowledge and fate: A review". Critical Reviews in Environmental Science and Technology, 2016, 46, 438-440. | 12.8 | 2 |
| 274 | Biochar from various lignocellulosic biomass wastes as an additive in biogas production from food waste. , 2020, , 199-217. | | 2 |
| 275 | Leaching and Recovery of Molybdenum from Spent Catalysts. Environmental Chemistry for A Sustainable World, 2017, , 207-239. | 0.5 | 2 |
| 276 | Fate and forms of Cu in a reservoir ecosystem following copper sulfate treatment (Saint Germain les Tj ETQq0 0 0 ggBT /Overlock 10 Tf | 0.2 | 2 |
| 277 | In Situ Thermal Treatments and Enhancements: Theory and Case Study. Applied Environmental Science and Engineering for A Sustainable Future, 2020, , 149-209. | 0.5 | 2 |
| 278 | Assessment of Zn bioavailability: XAFS study on speciation of zinc-particulate organic matter associations in polluted soils. Journal of Physics: Conference Series, 2009, 190, 012189. | 0.4 | 1 |
| 279 | Effect of substrate feeding on viscosity evolution of anaerobic granular sludges. Water Science and Technology, 2010, 62, 132-139. | 2.5 | 1 |
| 280 | Distribution trend of trace elements in digestate exposed to air: Laboratory-scale investigations using DGT-based fractionation. Journal of Environmental Management, 2019, 238, 159-165. | 7.8 | 1 |
| 281 | Low concentration of zeolite to enhance microalgal growth and ammonium removal efficiency in a membrane photobioreactor. Environmental Technology (United Kingdom), 2021, 42, 3863-3876. | 2.2 | 1 |
| 282 | Lead and Zinc Metallurgical Slags Mineralogy and Weathering. Environmental Chemistry for A Sustainable World, 2017, , 133-160. | 0.5 | 1 |
| 283 | Established technologies for metal recovery from industrial wastewater streams. , 2022, , 295-317. | | 1 |
| 284 | Remediation of Selenium Contaminated Wastewater. Advances in Science, Technology and Innovation, 2018, , 23-24. | 0.4 | 0 |
| 285 | Data of OECD soil and leachate resulting from irrigation with aqueous solution containing trace metals at increasing sodium concentration. Data in Brief, 2019, 25, 104276. | 1.0 | 0 |
| 286 | Critical Raw Materials Recovery through Bio/Hydrometallurgy from Secondary Resources. Metals, 2019, 9, 1228. | 2.3 | 0 |
| 287 | CHAPTER 9. Secondary Metal Recovery from Slags. Chemistry in the Environment, 2021, , 268-301. | 0.4 | 0 |
| 288 | Aqueous alteration and bioalteration of a synthetic enstatite chondrite. Meteoritics and Planetary Science, 2021, 56, 601-618. | 1.6 | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 289 | Biotechnological intervention for societal development (BioSangam 2020). Environmental Science and Pollution Research, 2021, 28, 40217-40219. | 5.3 | 0 |
| 290 | Surface volatilization modeling of (semi-)volatile hydrophobic organic compounds: The role of reference compounds. Journal of Hazardous Materials, 2022, 424, 127300. | 12.4 | 0 |
| 291 | Remediation of PAH-Contaminated Soils: Experimental Analysis and Modeling of Hydrodynamics and Mass Transfer in a Soil-Slurry Bioreactor. , 0, , . | | 0 |
| 292 | Bioprocesses for the Treatment of Volatile Organic Compounds. , 2019, , 207-224. | | 0 |
| 293 | Raman Spectroscopy Study of Glass Alteration. , 2020, , . | | 0 |
| 294 | Role of Extracellular Polymeric Substances (EPS) in Cell Surface Hydrophobicity. , 2019, , 128-153. | | 0 |
| 295 | Free Product Recovery of Non-aqueous Phase Liquids in Contaminated Sites: Theory and Case Studies. Applied Environmental Science and Engineering for A Sustainable Future, 2020, , 61-148. | 0.5 | 0 |
| 296 | Models performance in predicting least limiting water range in northwest of Iran under semiarid and semi-humid climates. International Journal of Environmental Science and Technology, 0, , 1. | 3.5 | 0 |
| 297 | Nitrate removal from groundwater using chemically modified coconut husk based granular activated carbon: characterization of the adsorbent, kinetics and mechanism. Systems Microbiology and Biomanufacturing, 0, , . | 2.9 | 0 |