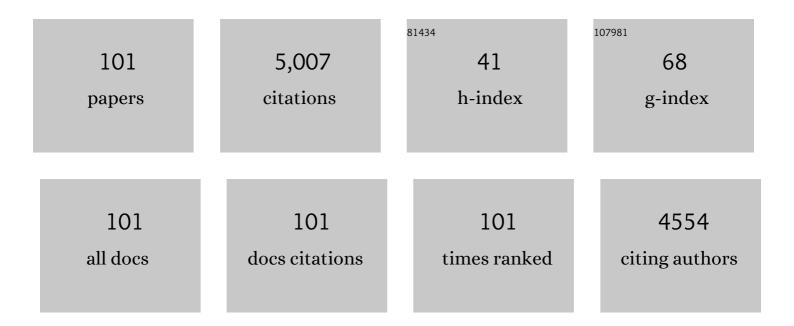
M D Balaguer

List of Publications by Year in descending order

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M D RALACHER

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Electrochemical water softening as pretreatment for nitrate electro bioremediation. Science of the Total Environment, 2022, 806, 150433. | 3.9 | 10 |
| 2 | Unveiling microbial electricity driven anoxic ammonium removal. Bioresource Technology Reports, 2022, 17, 100975. | 1.5 | 4 |
| 3 | Electro-cultivation of hydrogen-oxidizing bacteria to accumulate ammonium and carbon dioxide into protein-rich biomass. Bioresource Technology Reports, 2022, 18, 101010. | 1.5 | 1 |
| 4 | Thermodynamic approach to foresee experimental CO2 reduction to organic compounds. Bioresource Technology, 2022, 354, 127181. | 4.8 | 7 |
| 5 | Effect of hydraulic retention time on the electro-bioremediation of nitrate in saline groundwater. Science of the Total Environment, 2022, 845, 157236. | 3.9 | 4 |
| 6 | Electrifying biotrickling filters for the treatment of aquaponics wastewater. Bioresource Technology, 2021, 319, 124221. | 4.8 | 14 |
| 7 | Thermophilic bio-electro carbon dioxide recycling harnessing renewable energy surplus. Bioresource Technology, 2021, 321, 124423. | 4.8 | 15 |
| 8 | Electro-bioremediation of nitrate and arsenite polluted groundwater. Water Research, 2021, 190, 116748. | 5.3 | 34 |
| 9 | Scaling-Up and Long-Term Operation of a Full-Scale Two-Stage Partial Nitritation-Anammox System Treating Landfill Leachate. Processes, 2021, 9, 800. | 1.3 | 18 |
| 10 | Electrified biotrickling filters as tertiary urban wastewater treatment. Case Studies in Chemical and Environmental Engineering, 2021, 4, 100143. | 2.9 | 1 |
| 11 | Bio-electro CO2 recycling platform based on two separated steps. Journal of Environmental Chemical Engineering, 2021, 9, 105909. | 3.3 | 15 |
| 12 | Combining electro-bioremediation of nitrate in saline groundwater with concomitant chlorine production. Water Research, 2021, 206, 117736. | 5.3 | 10 |
| 13 | Carbon dioxide to bio-oil in a bioelectrochemical system-assisted microalgae biorefinery process. Sustainable Energy and Fuels, 2021, 6, 150-161. | 2.5 | 22 |
| 14 | Achieving nitratation repression in an SBR at mainstream conditions through inorganic carbon limitation. International Biodeterioration and Biodegradation, 2020, 147, 104865. | 1.9 | 3 |
| 15 | Thermophilic bio-electro CO ₂ recycling into organic compounds. Green Chemistry, 2020, 22, 2947-2955. | 4.6 | 16 |
| 16 | Approaching Bioelectrochemical Systems to Real Facilities Within the Framework of CO2 Valorization and Biogas Upgrading. Advances in Science, Technology and Innovation, 2020, , 3-5. | 0.2 | 0 |
| 17 | Niches for Bioelectrochemical Systems in Wastewater Treatment Plants. Advances in Science, Technology and Innovation, 2020, , 329-331. | 0.2 | 0 |
| 18 | Biogas upgrading, CO2 valorisation and economic revaluation of bioelectrochemical systems through anodic chlorine production in the framework of wastewater treatment plants. Science of the Total Environment, 2019, 690, 352-360. | 3.9 | 53 |

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|----|--|-----|-----------|
| 19 | Niches for bioelectrochemical systems on the recovery of water, carbon and nitrogen in wastewater treatment plants. Biomass and Bioenergy, 2019, 130, 105380. | 2.9 | 12 |
| 20 | Unravelling the factors that influence the bio-electrorecycling of carbon dioxide towards biofuels. Green Chemistry, 2019, 21, 684-691. | 4.6 | 29 |
| 21 | Denitrifying nirK-containing alphaproteobacteria exhibit different electrode driven nitrite reduction capacities. Bioelectrochemistry, 2018, 121, 74-83. | 2.4 | 26 |
| 22 | Towards a methodology for recovering Kâ€struvite from manure. Journal of Chemical Technology and Biotechnology, 2018, 93, 1558-1562. | 1.6 | 14 |
| 23 | Opportunities for groundwater microbial electroâ€remediation. Microbial Biotechnology, 2018, 11, 119-135. | 2.0 | 53 |
| 24 | Hydrodynamic simulations and biological modelling of an Anammox reactor. Journal of Chemical Technology and Biotechnology, 2018, 93, 1190-1197. | 1.6 | 1 |
| 25 | Bio-electrorecycling of carbon dioxide into bioplastics. Green Chemistry, 2018, 20, 4058-4066. | 4.6 | 76 |
| 26 | Microbial electrosynthesis of butyrate from carbon dioxide: Production and extraction. Bioelectrochemistry, 2017, 117, 57-64. | 2.4 | 159 |
| 27 | Tracking bio-hydrogen-mediated production of commodity chemicals from carbon dioxide and renewable electricity. Bioresource Technology, 2017, 228, 201-209. | 4.8 | 34 |
| 28 | Long-term assessment of six-stacked scaled-up MFCs treating swine manure with different electrode materials. Environmental Science: Water Research and Technology, 2017, 3, 947-959. | 1.2 | 45 |
| 29 | Employing Microbial Electrochemical Technology-driven electro-Fenton oxidation for the removal of recalcitrant organics from sanitary landfill leachate. Bioresource Technology, 2017, 243, 949-956. | 4.8 | 48 |
| 30 | Influence of iron species on integrated microbial fuel cell and electro-Fenton process treating landfill leachate. Chemical Engineering Journal, 2017, 328, 57-65. | 6.6 | 55 |
| 31 | Effect of hydraulic retention time and substrate availability in denitrifying bioelectrochemical systems. Environmental Science: Water Research and Technology, 2017, 3, 922-929. | 1.2 | 30 |
| 32 | Modelling the simultaneous production and separation of acetic acid from CO ₂ using an anion exchange membrane microbial electrosynthesis system. Journal of Chemical Technology and Biotechnology, 2017, 92, 1211-1217. | 1.6 | 11 |
| 33 | On the Edge of Research and Technological Application: A Critical Review of Electromethanogenesis. International Journal of Molecular Sciences, 2017, 18, 874. | 1.8 | 170 |
| 34 | Multiparametric control for enhanced biofilm selection in microbial fuel cells. Journal of Chemical Technology and Biotechnology, 2016, 91, 1720-1727. | 1.6 | 42 |
| 35 | Controlling struvite particles' size using the up-flow velocity. Chemical Engineering Journal, 2016, 302, 819-827. | 6.6 | 63 |
| 36 | Adaptación transcultural, validación y valoración de las propiedades psicométricas, de la versión española del cuestionario Western Ontario Shoulder Instability Index. Revista Española De CirugÃa Ortopédica Y TraumatologÃa, 2016, 60, 335-345. | 0.1 | 12 |

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|----|---|-----|-----------|
| 37 | Continuous acetate production through microbial electrosynthesis from <scp>CO₂</scp> with microbial mixed culture. Journal of Chemical Technology and Biotechnology, 2016, 91, 921-927. | 1.6 | 128 |
| 38 | Bidirectional microbial electron transfer: Switching an acetate oxidizing biofilm to nitrate reducing conditions. Biosensors and Bioelectronics, 2016, 75, 352-358. | 5.3 | 88 |
| 39 | External Resistances Applied to MFC Affect Core Microbiome and Swine Manure Treatment Efficiencies. PLoS ONE, 2016, 11, e0164044. | 1.1 | 34 |
| 40 | Role of Operating Conditions on Energetic Pathways in a Microbial Fuel Cell. Energy Procedia, 2015, 74, 728-735. | 1.8 | 35 |
| 41 | Microbiome characterization of MFCs used for the treatment of swine manure. Journal of Hazardous Materials, 2015, 288, 60-68. | 6.5 | 55 |
| 42 | Microbial electrosynthesis of butyrate from carbon dioxide. Chemical Communications, 2015, 51, 3235-3238. | 2.2 | 242 |
| 43 | Deciphering the electron transfer mechanisms for biogas upgrading to biomethane within a mixed culture biocathode. RSC Advances, 2015, 5, 52243-52251. | 1.7 | 75 |
| 44 | Monitoring and engineering reactor microbiomes of denitrifying bioelectrochemical systems. RSC Advances, 2015, 5, 68326-68333. | 1.7 | 39 |
| 45 | Anode hydrodynamics in bioelectrochemical systems. RSC Advances, 2015, 5, 78994-79000. | 1.7 | 31 |
| 46 | Cathode potential and anode electron donor evaluation for a suitable treatment of nitrate-contaminated groundwater in bioelectrochemical systems. Chemical Engineering Journal, 2015, 263, 151-159. | 6.6 | 113 |
| 47 | Spectrometric characterization of the effluent dissolved organic matter from an anammox reactor shows correlation between the EEM signature and anammox growth. Chemosphere, 2014, 117, 271-277. | 4.2 | 29 |
| 48 | Reducing start-up time and minimizing energy losses of Microbial Fuel Cells using Maximum Power Point Tracking strategy. Journal of Power Sources, 2014, 269, 403-411. | 4.0 | 73 |
| 49 | Assessment of biotic and abiotic graphite cathodes for hydrogen production in microbial electrolysis cells. International Journal of Hydrogen Energy, 2014, 39, 1297-1305. | 3.8 | 80 |
| 50 | Anoxic phases are the main N2O contributor in partial nitritation reactors treating high nitrogen loads with alternate aeration. Bioresource Technology, 2014, 163, 92-99. | 4.8 | 42 |
| 51 | Coupling anammox and advanced oxidation-based technologies for mature landfill leachate treatment. Journal of Hazardous Materials, 2013, 258-259, 27-34. | 6.5 | 72 |
| 52 | Grey water treatment at a sports centre for reuse in irrigation: A case study. Environmental Technology (United Kingdom), 2013, 34, 1385-1392. | 1.2 | 16 |
| 53 | Nitrous oxide reduction genetic potential from the microbial community of an intermittently aerated partial nitritation SBR treating mature landfill leachate. Water Research, 2013, 47, 7066-7077. | 5.3 | 70 |
| 54 | Biocatalysed sulphate removal in a BES cathode. Bioresource Technology, 2013, 130, 218-223. | 4.8 | 92 |

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|----|--|-----|-----------|
| 55 | Bioremediation of nitrateâ€polluted groundwater in a microbial fuel cell. Journal of Chemical Technology and Biotechnology, 2013, 88, 1690-1696. | 1.6 | 95 |
| 56 | Denitrifying Bacterial Communities Affect Current Production and Nitrous Oxide Accumulation in a Microbial Fuel Cell. PLoS ONE, 2013, 8, e63460. | 1.1 | 74 |
| 57 | Response to high nitrite concentrations of anammox biomass from two SBR fed on synthetic wastewater and landfill leachate. Chemical Engineering Journal, 2012, 209, 62-68. | 6.6 | 40 |
| 58 | Effect of temperature on AOB activity of a partial nitritation SBR treating landfill leachate with extremely high nitrogen concentration. Bioresource Technology, 2012, 126, 283-289. | 4.8 | 108 |
| 59 | Autotrophic Denitrification in Microbial Fuel Cells Treating Low Ionic Strength Waters. Environmental Science & Technology, 2012, 46, 2309-2315. | 4.6 | 159 |
| 60 | Impact of influent characteristics on a partial nitritation SBR treating high nitrogen loaded wastewater. Bioresource Technology, 2012, 111, 62-69. | 4.8 | 60 |
| 61 | Sludge production based on organic matter and nitrogen removal performances. Water Practice and Technology, 2011, 6, . | 1.0 | 3 |
| 62 | Modified calibration protocol evaluated in a model-based testing of SBR flexibility. Bioprocess and Biosystems Engineering, 2011, 34, 205-214. | 1.7 | 10 |
| 63 | Autotrophic nitrite removal in the cathode of microbial fuel cells. Bioresource Technology, 2011, 102, 4462-4467. | 4.8 | 132 |
| 64 | Microbial fuel cell application in landfill leachate treatment. Journal of Hazardous Materials, 2011, 185, 763-767. | 6.5 | 139 |
| 65 | Simultaneous domestic wastewater treatment and renewable energy production using microbial fuel cells (MFCs). Water Science and Technology, 2011, 64, 904-909. | 1.2 | 50 |
| 66 | Effect of pH on nutrient dynamics and electricity production using microbial fuel cells. Bioresource Technology, 2010, 101, 9594-9599. | 4.8 | 133 |
| 67 | The role of nitrate and nitrite in a granular sludge process treating low-strength wastewater. Chemical Engineering Journal, 2010, 164, 208-213. | 6.6 | 42 |
| 68 | Effect of cycle changes on simultaneous biological nutrient removal in a sequencing batch reactor (SBR). Environmental Technology (United Kingdom), 2010, 31, 285-294. | 1.2 | 7 |
| 69 | Systematic model development for partial nitrification of landfill leachate in a SBR. Water Science and Technology, 2010, 61, 2199-2210. | 1.2 | 13 |
| 70 | The effect of urban landfill leachate characteristics on the coexistence of anammox bacteria and heterotrophic denitrifiers. Water Science and Technology, 2010, 61, 1065-1071. | 1.2 | 30 |
| 71 | Combining partial nitritation and heterotrophic denitritation for the treatment of landfill leachate previous to an anammox reactor. Water Science and Technology, 2010, 61, 1949-1955. | 1.2 | 20 |
| 72 | Long-term operation of a partial nitritation pilot plant treating leachate with extremely high ammonium concentration prior to an anammox process. Bioresource Technology, 2009, 100, 5624-5632. | 4.8 | 78 |

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|----|--|-----|-----------|
| 73 | Development of batch-culture enrichment coupled to molecular detection for screening of natural and man-made environments in search of anammox bacteria for N-removal bioreactors systems. Chemosphere, 2009, 75, 169-179. | 4.2 | 43 |
| 74 | Nitrogen removal from landfill leachate using the SBR technology. Environmental Technology (United Kingdom), 2009, 30, 283-290. | 1.2 | 27 |
| 75 | Startâ€up and enrichment of a granular anammox SBR to treat high nitrogen load wastewaters. Journal of Chemical Technology and Biotechnology, 2008, 83, 233-241. | 1.6 | 118 |
| 76 | Operational strategy for a partial nitritation–sequencing batch reactor treating urban landfill leachate to achieve a stable influent for an anammox reactor. Journal of Chemical Technology and Biotechnology, 2008, 83, 365-371. | 1.6 | 25 |
| 77 | Heterotrophic denitrification on granular anammox SBR treating urban landfill leachate. Water Science and Technology, 2008, 58, 1749-1755. | 1.2 | 91 |
| 78 | Selection between alcohols and volatile fatty acids as external carbon sources for EBPR. Water Research, 2008, 42, 557-566. | 5.3 | 77 |
| 79 | Biological nutrient removal by applying SBR technology in small wastewater treatment plants: carbon source and C/N/P ratio effects. Water Science and Technology, 2007, 55, 135-141. | 1.2 | 26 |
| 80 | OPERATIONAL STRATEGY OF A PARTIAL NITRITATION-SBR (PN-SBR) TREATING URBAN LANDFILL LEACHATE TO ACHIEVE A STABLE INFLUENT FOR AN ANAMMOX REACTOR. Proceedings of the Water Environment Federation, 2007, 2007, 483-494. | 0.0 | 3 |
| 81 | Partial ammonium oxidation to nitrite of high ammonium content urban landfill leachates. Water Research, 2007, 41, 3317-3326. | 5.3 | 157 |
| 82 | A Model for the Simulation of the SHARON Process: pH as a Key Factor. Environmental Technology (United Kingdom), 2007, 28, 255-265. | 1.2 | 46 |
| 83 | Biological nutrient removal in a sequencing batch reactor using ethanol as carbon source. Journal of Chemical Technology and Biotechnology, 2007, 82, 898-904. | 1.6 | 28 |
| 84 | Model-based evaluation of an on-line control strategy for SBRs based on OUR and ORP measurements. Water Science and Technology, 2006, 53, 161-169. | 1.2 | 19 |
| 85 | An on-line optimisation of a SBR cycle for carbon and nitrogen removal based on on-line pH and OUR: the role of dissolved oxygen control. Water Science and Technology, 2006, 53, 171-178. | 1.2 | 27 |
| 86 | On-line oxygen uptake rate as a new tool for monitoring and controlling the SBR process. Computer Aided Chemical Engineering, 2005, 20, 1291-1296. | 0.3 | 5 |
| 87 | Development and Implementation of a Real-Time Control System for Nitrogen Removal Using OUR and ORP as End Points. Industrial & Engineering Chemistry Research, 2005, 44, 3367-3373. | 1.8 | 60 |
| 88 | Carbonaceous adsorbents from sewage sludge and their application in a combined activated sludge-powdered activated carbon (AS-PAC) treatment. Carbon, 2004, 42, 1389-1394. | 5.4 | 63 |
| 89 | Activated carbons developed from surplus sewage sludge for the removal of dyes from dilute aqueous solutions. Chemical Engineering Journal, 2003, 94, 231-239. | 6.6 | 291 |
| 90 | Textile Dyeing Wastewater Treatment in a Sequencing Batch Reactor System. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2003, 38, 2089-2099. | 0.9 | 6 |

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|-----|---|---------------------|-----------------------|
| 91 | Towards waste minimisation in WWTP: activated carbon from biological sludge and its application in liquid phase adsorption. Journal of Chemical Technology and Biotechnology, 2002, 77, 825-833. | 1.6 | 40 |
| 92 | Title is missing!. Biotechnology Letters, 2002, 24, 163-168. | 1.1 | 12 |
| 93 | Isotherm Model Analysis for the Adsorption of Cd (II), Cu (II), Ni (II), and Zn (II) on Anaerobically Digested Sludge. Journal of Colloid and Interface Science, 2000, 232, 64-70. | 5.0 | 34 |
| 94 | Pilot Plant Evaluation for Hydrogen Sulphide Biological Treatment: Determination of Optimal Conditions Linking Experimental and Mathematical Modelling. Environmental Technology (United) Tj ETQq0 0 0 i | rg B1 2/Over | lo te 10 Tf 50 |
| 95 | Competitive biosorption of copper, cadmium, nickel and zinc from metal ion mixtures using anaerobically digested sludge. Process Metallurgy, 1999, 9, 175-183. | 0.1 | 0 |
| 96 | A Comparison of Different Support Materials in Anaerobic Fluidized Bed Reactors for the Treatment of Vinasse. Environmental Technology (United Kingdom), 1997, 18, 539-544. | 1.2 | 32 |
| 97 | Heavy metal binding to anaerobic sludge. Water Research, 1997, 31, 997-1004. | 5.3 | 36 |
| 98 | Feasibility of Activated Carbon Production from Biological Sludge by Chemical Activation with ZnCl2 and H2SO4. Environmental Technology (United Kingdom), 1996, 17, 667-671. | 1.2 | 57 |
| 99 | Anaerobic fluidized bed reactor with sepiolite as support for anaerobic treatment of vinasse. Biotechnology Letters, 1992, 14, 433-438. | 1.1 | 41 |
| 100 | Start-up of an UASB reactor treating potato-starch wastewater using an alkalimetric follow-up procedure. Biomass and Bioenergy, 1992, 3, 389-392. | 2.9 | 9 |
| 101 | Utilisation of pumice stone as support for the anaerobic treatment of vinasse with a fluidized bed reactor. Environmental Technology (United Kingdom), 1991, 12, 1167-1173. | 1.2 | 10 |