

Regine Basseguy

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4105838/publications.pdf>

Version: 2024-02-01

50
papers

1,947
citations

257450

24
h-index

243625

44
g-index

51
all docs

51
docs citations

51
times ranked

1911
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | The electrochemical potential is a key parameter for cell adhesion and proliferation on carbon surface. <i>Bioelectrochemistry</i> , 2022, 144, 108045. | 4.6 | 4 |
| 2 | Industrially scalable surface treatments to enhance the current density output from graphite bioanodes fueled by real domestic wastewater. <i>IScience</i> , 2021, 24, 102162. | 4.1 | 8 |
| 3 | Design of 3D microbial anodes for microbial electrolysis cells (MEC) fuelled by domestic wastewater. Part I: Multiphysics modelling. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105476. | 6.7 | 8 |
| 4 | Microbial electrolysis cell (MEC): Strengths, weaknesses and research needs from electrochemical engineering standpoint. <i>Applied Energy</i> , 2020, 257, 113938. | 10.1 | 150 |
| 5 | Low-Cost Electrode Modification to Upgrade the Bioelectrocatalytic Oxidation of Tannery Wastewater Using Acclimated Activated Sludge. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2259. | 2.5 | 5 |
| 6 | Benchmarking of Industrial Synthetic Graphite Grades, Carbon Felt, and Carbon Cloth as Cost-Efficient Bioanode Materials for Domestic Wastewater Fed Microbial Electrolysis Cells. <i>Frontiers in Energy Research</i> , 2019, 7, . | 2.3 | 12 |
| 7 | An imaging system for microbial corrosion analysis. , 2019, , . | | 7 |
| 8 | Catalysis of the hydrogen evolution reaction by hydrogen carbonate to decrease the voltage of microbial electrolysis cell fed with domestic wastewater. <i>Electrochimica Acta</i> , 2018, 275, 32-39. | 5.2 | 24 |
| 9 | Separator electrode assembly (SEA) with 3-dimensional bioanode and removable air-cathode boosts microbial fuel cell performance. <i>Journal of Power Sources</i> , 2017, 356, 389-399. | 7.8 | 53 |
| 10 | Discerning different and opposite effects of hydrogenase on the corrosion of mild steel in the presence of phosphate species. <i>Bioelectrochemistry</i> , 2016, 111, 31-40. | 4.6 | 8 |
| 11 | Exacerbation of the mild steel corrosion process by direct electron transfer between [Fe-Fe]-hydrogenase and material surface. <i>Corrosion Science</i> , 2016, 111, 199-211. | 6.6 | 12 |
| 12 | Impact of the chemicals, essential for the purification process of strict Fe-hydrogenase, on the corrosion of mild steel. <i>Bioelectrochemistry</i> , 2016, 109, 9-23. | 4.6 | 7 |
| 13 | <i>Geobacter sulfurreducens</i> : An iron reducing bacterium that can protect carbon steel against corrosion?. <i>Corrosion Science</i> , 2015, 94, 104-113. | 6.6 | 39 |
| 14 | Electrochemical characterization of microbial bioanodes formed on a collector/electrode system in a highly saline electrolyte. <i>Bioelectrochemistry</i> , 2015, 106, 97-104. | 4.6 | 16 |
| 15 | Corrosion of carbon steel by bacteria from North Sea offshore seawater injection systems: Laboratory investigation. <i>Bioelectrochemistry</i> , 2014, 97, 76-88. | 4.6 | 27 |
| 16 | Electrochemical and fractographic analysis of Microbiologically Assisted Stress Corrosion Cracking of carbon steel. <i>Corrosion Science</i> , 2014, 80, 60-70. | 6.6 | 31 |
| 17 | Corrosion of low carbon steel by microorganisms from the "pigging"™ operation debris in water injection pipelines. <i>Bioelectrochemistry</i> , 2014, 97, 97-109. | 4.6 | 28 |
| 18 | Corrosion behavior of carbon steel in presence of sulfate-reducing bacteria in seawater environment. <i>Electrochimica Acta</i> , 2013, 113, 390-406. | 5.2 | 79 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Catalyse biotique et abiotique de la r duction des nitrates en milieu alcalin dans le contexte du stockage profond des d chets radioactifs. <i>Materiaux Et Techniques</i> , 2013, 101, 104. | 0.9 | 5 |
| 20 | Effect of the semi-conductive properties of the passive layer on the current provided by stainless steel microbial cathodes. <i>Electrochimica Acta</i> , 2011, 56, 2682-2688. | 5.2 | 23 |
| 21 | Hydrogen production by electrolysis of a phosphate solution on a stainless steel cathode. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 8561-8568. | 7.1 | 89 |
| 22 | <i>Geobacter sulfurreducens</i> can protect 304L stainless steel against pitting in conditions of low electron acceptor concentrations. <i>Electrochemistry Communications</i> , 2010, 12, 724-728. | 4.7 | 14 |
| 23 | Combining phosphate species and stainless steel cathode to enhance hydrogen evolution in microbial electrolysis cell (MEC). <i>Electrochemistry Communications</i> , 2010, 12, 183-186. | 4.7 | 61 |
| 24 | Role of direct microbial electron transfer in corrosion of steels. <i>Electrochemistry Communications</i> , 2009, 11, 568-571. | 4.7 | 53 |
| 25 | <i>Geobacter</i> species enhances pit depth on 304L stainless steel in a medium lacking with electron donor. <i>Electrochemistry Communications</i> , 2009, 11, 1476-1481. | 4.7 | 15 |
| 26 | Effect of <i>Geobacter sulfurreducens</i> on the microbial corrosion of mild steel, ferritic and austenitic stainless steels. <i>Corrosion Science</i> , 2009, 51, 2596-2604. | 6.6 | 48 |
| 27 | New hypotheses for hydrogenase implication in the corrosion of mild steel. <i>Electrochimica Acta</i> , 2008, 54, 140-147. | 5.2 | 24 |
| 28 | DSA to grow electrochemically active biofilms of <i>Geobacter sulfurreducens</i> . <i>Electrochimica Acta</i> , 2008, 53, 3200-3209. | 5.2 | 60 |
| 29 | Electrochemical activity of <i>Geobacter sulfurreducens</i> biofilms on stainless steel anodes. <i>Electrochimica Acta</i> , 2008, 53, 5235-5241. | 5.2 | 140 |
| 30 | Checking graphite and stainless anodes with an experimental model of marine microbial fuel cell. <i>Bioresource Technology</i> , 2008, 99, 8887-8894. | 9.6 | 84 |
| 31 | Microbial electrocatalysis with <i>Geobacter sulfurreducens</i> biofilm on stainless steel cathodes. <i>Electrochimica Acta</i> , 2008, 53, 2494-2500. | 5.2 | 148 |
| 32 | Local analysis of oxygen reduction catalysis by scanning vibrating electrode technique: A new approach to the study of biocorrosion. <i>Electrochimica Acta</i> , 2008, 54, 60-65. | 5.2 | 28 |
| 33 | Role of the reversible electrochemical deprotonation of phosphate species in anaerobic biocorrosion of steels. <i>Corrosion Science</i> , 2007, 49, 3988-4004. | 6.6 | 19 |
| 34 | Classic and local analysis of corrosion behaviour of graphite and stainless steels in polluted phosphoric acid. <i>Electrochimica Acta</i> , 2007, 52, 2580-2587. | 5.2 | 59 |
| 35 | Marine microbial fuel cell: Use of stainless steel electrodes as anode and cathode materials. <i>Electrochimica Acta</i> , 2007, 53, 468-473. | 5.2 | 243 |
| 36 | Simple design of cast myoglobin/polyethyleneimine modified electrodes. <i>Journal of Applied Electrochemistry</i> , 2006, 36, 835-842. | 2.9 | 4 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Electroactive cytochrome cast polyion films on graphite electrodes. <i>Electrochimica Acta</i> , 2006, 52, 979-987. | 5.2 | 7 |
| 38 | Design and Modelling of a Dialysis Membrane Electrochemical Reactor (D-MER) for Oxidoreductase-Catalysed Synthesis. <i>Journal of Applied Electrochemistry</i> , 2004, 34, 469-476. | 2.9 | 1 |
| 39 | Glucose oxidase catalysed oxidation of glucose in a dialysis membrane electrochemical reactor (D-MER). <i>Bioprocess and Biosystems Engineering</i> , 2004, 26, 165-168. | 3.4 | 7 |
| 40 | Electron transfer between hydrogenase and 316L stainless steel: identification of a hydrogenase-catalyzed cathodic reaction in anaerobic mic. <i>Journal of Electroanalytical Chemistry</i> , 2004, 561, 93-102. | 3.8 | 60 |
| 41 | Hydrogenase-catalysed deposition of vivianite on mild steel. <i>Electrochimica Acta</i> , 2004, 49, 2097-2103. | 5.2 | 8 |
| 42 | The role of hydrogenases in the anaerobic microbiologically influenced corrosion of steels. <i>Bioelectrochemistry</i> , 2002, 56, 77-79. | 4.6 | 32 |
| 43 | Designing membrane electrochemical reactors for oxidoreductase-catalysed synthesis. <i>Bioelectrochemistry</i> , 2002, 55, 93-95. | 4.6 | 13 |
| 44 | Membrane electrochemical reactor (MER): application to NADH regeneration for ADH-catalysed synthesis. <i>Chemical Engineering Science</i> , 2002, 57, 4633-4642. | 3.8 | 31 |
| 45 | Surface-modified electrodes for NADH oxidation in oxidoreductase-catalysed synthesis. <i>Journal of Applied Electrochemistry</i> , 2001, 31, 1095-1101. | 2.9 | 12 |
| 46 | Mass transfer with chemical reaction in thin-layer electrochemical reactors. <i>AIChE Journal</i> , 1995, 41, 1944-1954. | 3.6 | 10 |
| 47 | Electrochemical and surface studies of the ageing of passive layers grown on stainless steel in neutral chloride solution. <i>Corrosion Science</i> , 1994, 36, 171-186. | 6.6 | 60 |
| 48 | Frequency dispersion of passive electrode capacitances. <i>Electrochimica Acta</i> , 1993, 38, 1615-1617. | 5.2 | 1 |
| 49 | The resistance to localized corrosion in neutral chloride medium of an AISI 304L stainless steel implanted with nitrogen and neon ions. <i>Corrosion Science</i> , 1992, 33, 1121-1134. | 6.6 | 27 |
| 50 | Poly(pyrrole-metallotetraphenylporphyrin)-modified electrodes. <i>Journal of Electroanalytical Chemistry</i> , 1992, 324, 325-337. | 3.8 | 43 |