

David P B T B Strik

List of Publications by Year in descending order

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Version: 2024-02-01

75
papers

6,313
citations

61857

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85405

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75
all docs

75
docs citations

75
times ranked

3885
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Concentration-dependent effects of nickel doping on activated carbon biocathodes. <i>Catalysis Science and Technology</i> , 2022, 12, 2500-2518. | 2.1 | 5 |
| 2 | Designing a Selective <i>n</i> -Caproate Adsorption-Recovery Process with Granular Activated Carbon and Screening of Conductive Materials in Chain Elongation. <i>ACS ES&T Engineering</i> , 2022, 2, 54-64. | 3.7 | 6 |
| 3 | Lactate Metabolism and Microbiome Composition Are Affected by Nitrogen Gas Supply in Continuous Lactate-Based Chain Elongation. <i>Fermentation</i> , 2021, 7, 41. | 1.4 | 10 |
| 4 | Catalytic Cooperation between a Copper Oxide Electrocatalyst and a Microbial Community for Microbial Electrosynthesis. <i>ChemPlusChem</i> , 2021, 86, 763-777. | 1.3 | 5 |
| 5 | <i>n</i> ZVI Impacts Substrate Conversion and Microbiome Composition in Chain Elongation From D- and L-Lactate Substrates. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 666582. | 2.0 | 9 |
| 6 | Open Culture Ethanol-Based Chain Elongation to Form Medium Chain Branched Carboxylates and Alcohols. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 697439. | 2.0 | 4 |
| 7 | Cyclic Voltammetry is Invasive on Microbial Electrosynthesis. <i>ChemElectroChem</i> , 2021, 8, 3384-3396. | 1.7 | 9 |
| 8 | Reactor microbiome enriches vegetable oil with <i>n</i> -caproate and <i>n</i> -caprylate for potential functionalized feed additive production via extractive lactate-based chain elongation. <i>Biotechnology for Biofuels</i> , 2021, 14, 232. | 6.2 | 5 |
| 9 | Consecutive lactate formation and chain elongation to reduce exogenous chemicals input in repeated-batch food waste fermentation. <i>Water Research</i> , 2020, 169, 115215. | 5.3 | 132 |
| 10 | Concurrent use of methanol and ethanol for chain-elongating short chain fatty acids into caproate and isobutyrate. <i>Journal of Environmental Management</i> , 2020, 258, 110008. | 3.8 | 9 |
| 11 | Techno-economic assessment of microbial electrosynthesis from CO ₂ and/or organics: An interdisciplinary roadmap towards future research and application. <i>Applied Energy</i> , 2020, 279, 115775. | 5.1 | 58 |
| 12 | Bioelectrochemical Chain Elongation of Short-Chain Fatty Acids Creates Steering Opportunities for Selective Formation of <i>n</i> -Butyrate, <i>n</i> -Valerate or <i>n</i> -Caproate. <i>ChemistrySelect</i> , 2020, 5, 9127-9133. | 0.7 | 16 |
| 13 | Methanol-Based Chain Elongation with Acetate to <i>n</i> -Butyrate and Isobutyrate at Varying Selectivities Dependent on pH. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 8184-8194. | 3.2 | 28 |
| 14 | CO ₂ Conversion by Combining a Copper Electrocatalyst and Wild-Type Microorganisms. <i>ChemCatChem</i> , 2020, 12, 3900-3912. | 1.8 | 8 |
| 15 | A Thin Layer of Activated Carbon Deposited on Polyurethane Cube Leads to New Conductive Bioanode for (Plant) Microbial Fuel Cell. <i>Energies</i> , 2020, 13, 574. | 1.6 | 9 |
| 16 | Plant-Microbial Fuel Cells Serve the Environment and People. , 2020, , 315-327. | | 0 |
| 17 | Enhanced selectivity to butyrate and caproate above acetate in continuous bioelectrochemical chain elongation from CO ₂ : Steering with CO ₂ loading rate and hydraulic retention time. <i>Bioresource Technology Reports</i> , 2019, 7, 100284. | 1.5 | 47 |
| 18 | Activated Carbon Mixed with Marine Sediment is Suitable as Bioanode Material for <i>Spartina anglica</i> Sediment/Plant Microbial Fuel Cell: Plant Growth, Electricity Generation, and Spatial Microbial Community Diversity. <i>Water (Switzerland)</i> , 2019, 11, 1810. | 1.2 | 26 |

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|----|---|-----|-----------|
| 19 | Branched Medium Chain Fatty Acids: Iso-Caproate Formation from Iso-Butyrate Broadens the Product Spectrum for Microbial Chain Elongation. <i>Environmental Science & Technology</i> , 2019, 53, 7704-7713. | 4.6 | 40 |
| 20 | Continuous n-valerate formation from propionate and methanol in an anaerobic chain elongation open-culture bioreactor. <i>Biotechnology for Biofuels</i> , 2019, 12, 132. | 6.2 | 40 |
| 21 | Marine Sediment Mixed With Activated Carbon Allows Electricity Production and Storage From Internal and External Energy Sources: A New Rechargeable Bio-Battery With Bi-Directional Electron Transfer Properties. <i>Frontiers in Microbiology</i> , 2019, 10, 934. | 1.5 | 7 |
| 22 | Performance and Long Distance Data Acquisition via LoRa Technology of a Tubular Plant Microbial Fuel Cell Located in a Paddy Field in West Kalimantan, Indonesia. <i>Sensors</i> , 2019, 19, 4647. | 2.1 | 30 |
| 23 | Electricity generation from wetlands with activated carbon bioanode. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018, 131, 012046. | 0.2 | 6 |
| 24 | Effect of n-Caproate Concentration on Chain Elongation and Competing Processes. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 7499-7506. | 3.2 | 42 |
| 25 | Controlling Ethanol Use in Chain Elongation by CO ₂ Loading Rate. <i>Environmental Science & Technology</i> , 2018, 52, 1496-1505. | 4.6 | 127 |
| 26 | Water-Based Synthesis of Hydrophobic Ionic Liquids [N ₈₈₈₈][oleate] and [P _{666,14}][oleate] and their Bioprocess Compatibility. <i>ChemistryOpen</i> , 2018, 7, 878-884. | 0.9 | 4 |
| 27 | Critical Biofilm Growth throughout Unmodified Carbon Felts Allows Continuous Bioelectrochemical Chain Elongation from CO ₂ up to Caproate at High Current Density. <i>Frontiers in Energy Research</i> , 2018, 6, . | 1.2 | 146 |
| 28 | Development of an Effective Chain Elongation Process From Acidified Food Waste and Ethanol Into n-Caproate. <i>Frontiers in Bioengineering and Biotechnology</i> , 2018, 6, 50. | 2.0 | 79 |
| 29 | Biotransformation of carbon dioxide in bioelectrochemical systems: State of the art and future prospects. <i>Journal of Power Sources</i> , 2017, 356, 256-273. | 4.0 | 194 |
| 30 | Production of Caproic Acid from Mixed Organic Waste: An Environmental Life Cycle Perspective. <i>Environmental Science & Technology</i> , 2017, 51, 7159-7168. | 4.6 | 120 |
| 31 | In situ acetate separation in microbial electrosynthesis from CO ₂ using ion-exchange resin. <i>Electrochimica Acta</i> , 2017, 237, 267-275. | 2.6 | 52 |
| 32 | Bioelectrochemical conversion of CO ₂ to chemicals: CO ₂ as a next generation feedstock for electricity-driven bioproduction in batch and continuous modes. <i>Faraday Discussions</i> , 2017, 202, 433-449. | 1.6 | 79 |
| 33 | Electricity from wetlands: Tubular plant microbial fuels with silicone gas-diffusion biocathodes. <i>Applied Energy</i> , 2017, 185, 642-649. | 5.1 | 65 |
| 34 | Isobutyrate biosynthesis via methanol chain elongation: converting organic wastes to platform chemicals. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 1370-1379. | 1.6 | 27 |
| 35 | Long-term operation of microbial electrosynthesis cell reducing CO ₂ to multi-carbon chemicals with a mixed culture avoiding methanogenesis. <i>Bioelectrochemistry</i> , 2017, 113, 26-34. | 2.4 | 154 |
| 36 | Continuous Long-Term Bioelectrochemical Chain Elongation to Butyrate. <i>ChemElectroChem</i> , 2017, 4, 386-395. | 1.7 | 95 |

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|----|---|-----|-----------|
| 37 | Electrodes for Cathodic Microbial Electrosynthesis Processes: Key Developments and Criteria for Effective Research and Implementation. , 2017, , 429-473. | | 6 |
| 38 | Methanol as an alternative electron donor in chain elongation for butyrate and caproate formation. Biomass and Bioenergy, 2016, 93, 201-208. | 2.9 | 58 |
| 39 | Application of gas diffusion biocathode in microbial electrosynthesis from carbon dioxide. Environmental Science and Pollution Research, 2016, 23, 22292-22308. | 2.7 | 170 |
| 40 | Integrated Product Separation in Bioelectrochemical CO ₂ Reduction for Improved Process Efficiency. Chemie-Ingenieur-Technik, 2016, 88, 1255-1256. | 0.4 | 4 |
| 41 | Product Specificity Influenced by Catholyte Conditions during the Microbial Electrosynthesis Process CO ₂ to Acetate. Chemie-Ingenieur-Technik, 2016, 88, 1253-1253. | 0.4 | 0 |
| 42 | Granular sludge formation and characterization in a chain elongation process. Process Biochemistry, 2016, 51, 1594-1598. | 1.8 | 39 |
| 43 | An overview on emerging bioelectrochemical systems (BESs): Technology for sustainable electricity, waste remediation, resource recovery, chemical production and beyond. Renewable Energy, 2016, 98, 153-170. | 4.3 | 334 |
| 44 | Chain Elongation with Reactor Microbiomes: Open-Culture Biotechnology To Produce Biochemicals. Environmental Science & Technology, 2016, 50, 2796-2810. | 4.6 | 426 |
| 45 | Selective short-chain carboxylates production: A review of control mechanisms to direct mixed culture fermentations. Critical Reviews in Environmental Science and Technology, 2016, 46, 592-634. | 6.6 | 101 |
| 46 | Monophyletic group of unclassified \hat{I}^3 - Proteobacteria dominates in mixed culture biofilm of high-performing oxygen reducing biocathode. Bioelectrochemistry, 2015, 106, 167-176. | 2.4 | 48 |
| 47 | Carbon dioxide reduction by mixed and pure cultures in microbial electrosynthesis using an assembly of graphite felt and stainless steel as a cathode. Bioresource Technology, 2015, 195, 14-24. | 4.8 | 276 |
| 48 | Plant microbial fuel cell applied in wetlands: Spatial, temporal and potential electricity generation of <i>Spartina anglica</i> salt marshes and <i>Phragmites australis</i> peat soils. Biomass and Bioenergy, 2015, 83, 543-550. | 2.9 | 47 |
| 49 | Compost in plant microbial fuel cell for bioelectricity generation. Waste Management, 2015, 36, 63-69. | 3.7 | 118 |
| 50 | Electricity generation by a plant microbial fuel cell with an integrated oxygen reducing biocathode. Applied Energy, 2015, 137, 151-157. | 5.1 | 136 |
| 51 | Two-stage medium chain fatty acid (MCFA) production from municipal solid waste and ethanol. Applied Energy, 2014, 116, 223-229. | 5.1 | 181 |
| 52 | Electricity generation by a novel design tubular plant microbial fuel cell. Biomass and Bioenergy, 2013, 51, 60-67. | 2.9 | 89 |
| 53 | Increase of power output by change of ion transport direction in a plant microbial fuel cell. International Journal of Energy Research, 2013, 37, 1103-1111. | 2.2 | 13 |
| 54 | Electricity production with living plants on a green roof: environmental performance of the plant \hat{I} microbial fuel cell. Biofuels, Bioproducts and Biorefining, 2013, 7, 52-64. | 1.9 | 51 |

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|----|--|------|-----------|
| 55 | Resilience of roof-top Plant-Microbial Fuel Cells during Dutch winter. <i>Biomass and Bioenergy</i> , 2013, 51, 1-7. | 2.9 | 71 |
| 56 | pH and Temperature Determine Performance of Oxygen Reducing Biocathodes. <i>Electroanalysis</i> , 2013, 25, 652-655. | 1.5 | 20 |
| 57 | The flat-plate plant-microbial fuel cell: the effect of a new design on internal resistances. <i>Biotechnology for Biofuels</i> , 2012, 5, 70. | 6.2 | 74 |
| 58 | Microbial community structure elucidates performance of <i>Glyceria maxima</i> plant microbial fuel cell. <i>Applied Microbiology and Biotechnology</i> , 2012, 94, 537-548. | 1.7 | 121 |
| 59 | Characterization of the internal resistance of a plant microbial fuel cell. <i>Electrochimica Acta</i> , 2012, 72, 165-171. | 2.6 | 50 |
| 60 | Rhizosphere anode model explains high oxygen levels during operation of a <i>Glyceria maxima</i> PMFC. <i>Bioresource Technology</i> , 2012, 108, 60-67. | 4.8 | 48 |
| 61 | New plant-growth medium for increased power output of the Plant-Microbial Fuel Cell. <i>Bioresource Technology</i> , 2012, 104, 417-423. | 4.8 | 80 |
| 62 | Identifying charge and mass transfer resistances of an oxygen reducing biocathode. <i>Energy and Environmental Science</i> , 2011, 4, 5035. | 15.6 | 107 |
| 63 | Microbial solar cells: applying photosynthetic and electrochemically active organisms. <i>Trends in Biotechnology</i> , 2011, 29, 41-49. | 4.9 | 225 |
| 64 | New applications and performance of bioelectrochemical systems. <i>Applied Microbiology and Biotechnology</i> , 2010, 85, 1673-1685. | 1.7 | 237 |
| 65 | Long-term performance of a plant microbial fuel cell with <i>Spartina anglica</i> . <i>Applied Microbiology and Biotechnology</i> , 2010, 86, 973-981. | 1.7 | 163 |
| 66 | Concurrent bio-electricity and biomass production in three Plant-Microbial Fuel Cells using <i>Spartina anglica</i> , <i>Arundinella anomala</i> and <i>Arundo donax</i> . <i>Bioresource Technology</i> , 2010, 101, 3541-3547. | 4.8 | 202 |
| 67 | Solar Energy Powered Microbial Fuel Cell with a Reversible Bioelectrode. <i>Environmental Science & Technology</i> , 2010, 44, 532-537. | 4.6 | 117 |
| 68 | Cathode Potential and Mass Transfer Determine Performance of Oxygen Reducing Biocathodes in Microbial Fuel Cells. <i>Environmental Science & Technology</i> , 2010, 44, 7151-7156. | 4.6 | 125 |
| 69 | Renewable sustainable biocatalyzed electricity production in a photosynthetic algal microbial fuel cell (PAMFC). <i>Applied Microbiology and Biotechnology</i> , 2008, 81, 659-668. | 1.7 | 163 |
| 70 | Green electricity production with living plants and bacteria in a fuel cell. <i>International Journal of Energy Research</i> , 2008, 32, 870-876. | 2.2 | 313 |
| 71 | Feasibility Study on Electrochemical Impedance Spectroscopy for Microbial Fuel Cells: Measurement Modes & Data Validation. <i>ECS Transactions</i> , 2008, 13, 27-41. | 0.3 | 16 |
| 72 | A pH-based control of ammonia in biogas during anaerobic digestion of artificial pig manure and maize silage. <i>Process Biochemistry</i> , 2006, 41, 1235-1238. | 1.8 | 99 |

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|----|---|-----|-----------|
| 73 | Prediction of trace compounds in biogas from anaerobic digestion using the MATLAB Neural Network Toolbox. <i>Environmental Modelling and Software</i> , 2005, 20, 803-810. | 1.9 | 117 |
| 74 | Application of redox mediators to accelerate the transformation of reactive azo dyes in anaerobic bioreactors. <i>Biotechnology and Bioengineering</i> , 2001, 75, 691-701. | 1.7 | 171 |
| 75 | Editorial: Microbial Chain Elongation- Close the Carbon Loop by Connecting-Communities. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 10, . | 2.0 | 4 |