

# Alfred Fernández-Castañá©

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3627557/publications.pdf>

Version: 2024-02-01

19  
papers

348  
citations

933447

10  
h-index

839539

18  
g-index

22  
all docs

22  
docs citations

22  
times ranked

585  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Bioinformatic characterization of a triacylglycerol lipase produced by <i>Aspergillus flavus</i> isolated from the decaying seed of <i>Cucumeropsis mannii</i> . <i>Journal of Biomolecular Structure and Dynamics</i> , 2023, 41, 2587-2601. | 3.5 | 5         |
| 2  | Process intensification at the expression system level for the production of 1-phosphate aldolase in antibiotic-free <i>E. coli</i> fed-batch cultures. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2022, 49, .             | 3.0 | 1         |
| 3  | Nanoparticle tracking analysis as a process analytical tool for characterising magnetosome preparations. <i>Food and Bioproducts Processing</i> , 2021, 127, 426-434.   | 3.6 | 5         |
| 4  | Extraction of antibiotics using aqueous two-phase systems based on ethyl lactate and thiosulphate salts. <i>Fluid Phase Equilibria</i> , 2021, 539, 113022.   | 2.5 | 16        |
| 5  | Magnetotactic Bacteria-Based Biorefinery: Potential for Generating Multiple Products from a Single Fermentation. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 10537-10546.   | 6.7 | 5         |
| 6  | Metabolic characterisation of <i>Magnetospirillum gryphiswaldense</i> MSR-1 using LC-MS-based metabolite profiling. <i>RSC Advances</i> , 2020, 10, 32548-32560.  | 3.6 | 33        |
| 7  | Production of microbial lipids utilizing volatile fatty acids derived from wastepaper: A biorefinery approach for biodiesel production. <i>Fuel</i> , 2020, 276, 118087.  | 6.4 | 23        |
| 8  | Unveiling magnetosome biomineralization in magnetotactic bacteria. <i>Biochemist</i> , 2019, 41, 58-59.   | 0.5 | 1         |
| 9  | Magnetic hydrophobic charge induction adsorbents for the recovery of immunoglobulins from antiserum feedstocks by high gradient magnetic fishing. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 1901-1915.              | 3.2 | 10        |
| 10 | Development of a simple intensified fermentation strategy for growth of <i>Magnetospirillum gryphiswaldense</i> MSR-1: Physiological responses to changing environmental conditions. <i>New Biotechnology</i> , 2018, 46, 22-30.              | 4.4 | 25        |
| 11 | Flow cytometry as a rapid analytical tool to determine physiological responses to changing O <sub>2</sub> and iron concentration by <i>Magnetospirillum gryphiswaldense</i> strain MSR-1. <i>Scientific Reports</i> , 2017, 7, 13118.         | 3.3 | 18        |
| 12 | Using promoter libraries to reduce metabolic burden due to plasmid-encoded proteins in recombinant <i>Escherichia coli</i> . <i>New Biotechnology</i> , 2016, 33, 78-90.  | 4.4 | 38        |
| 13 | Quantitative modeling of inducer transport in fed-batch cultures of <i>Escherichia coli</i> . <i>Biochemical Engineering Journal</i> , 2014, 91, 210-219.   | 3.6 | 3         |
| 14 | Computer-aided design for metabolic engineering. <i>Journal of Biotechnology</i> , 2014, 192, 302-313.  | 3.8 | 26        |
| 15 | Validation of RetroPath, a computer-aided design tool for metabolic pathway engineering. <i>Biotechnology Journal</i> , 2014, 9, 1446-1457.   | 3.5 | 53        |
| 16 | From laboratory to pilot plant <i>E. coli</i> fed-batch cultures: optimizing the cellular environment for protein maximization. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2013, 40, 335-343.                              | 3.0 | 10        |
| 17 | Evidencing the role of lactose permease in IPTG uptake by <i>Escherichia coli</i> in fed-batch high cell density cultures. <i>Journal of Biotechnology</i> , 2012, 157, 391-398.  | 3.8 | 42        |
| 18 | Direct measurements of IPTG enable analysis of the induction behavior of <i>E. coli</i> in high cell density cultures. <i>Microbial Cell Factories</i> , 2012, 11, 58.  | 4.0 | 19        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Development and Validation of a Liquid Chromatography-Mass Spectrometry Assay for the Quantitation of IPTG in <i>E. Coli</i> Fed-Batch Cultures. Analytical Chemistry, 2010, 82, 5728-5734. | 6.5 | 13        |