

# Antonio Carlos Horta

## List of Publications by Year in descending order

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Version: 2024-02-01

23  
papers

251  
citations

933410

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h-index

996954

15  
g-index

24  
all docs

24  
docs citations

24  
times ranked

273  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Non-conventional induction strategies for production of subunit swine erysipelas vaccine antigen in rE. coli fed-batch cultures. SpringerPlus, 2013, 2, 322.  | 1.2 | 25        |
| 2  | ON-LINE MONITORING OF BIOMASS CONCENTRATION BASED ON A CAPACITANCE SENSOR: ASSESSING THE METHODOLOGY FOR DIFFERENT BACTERIA AND YEAST HIGH CELL DENSITY FED-BATCH CULTURES. Brazilian Journal of Chemical Engineering, 2015, 32, 821-829. | 1.3 | 25        |
| 3  | Intensification of high cell-density cultivations of rE. coli for production of S. pneumoniae antigenic surface protein, PspA3, using model-based adaptive control. Bioprocess and Biosystems Engineering, 2012, 35, 1269-1280.           | 3.4 | 24        |
| 4  | High-throughput strategies for penicillin G acylase production in rE. coli fed-batch cultivations. BMC Biotechnology, 2014, 14, 6.  | 3.3 | 21        |
| 5  | A supervision and control tool based on artificial intelligence for high cell density cultivations. Brazilian Journal of Chemical Engineering, 2014, 31, 457-468.   | 1.3 | 19        |
| 6  | Production and purification of an untagged recombinant pneumococcal surface protein A (PspA4Pro) with high-purity and low endotoxin content. Applied Microbiology and Biotechnology, 2017, 101, 2305-2317.                                | 3.6 | 17        |
| 7  | Enhanced production of recombinant thermo-stable lipase in Escherichia coli at high induction temperature. Protein Expression and Purification, 2013, 90, 96-103.   | 1.3 | 14        |
| 8  | Oxygen transfer in a pressurized airlift bioreactor. Bioprocess and Biosystems Engineering, 2015, 38, 1559-1567.  | 3.4 | 14        |
| 9  | Indirect method for quantification of cellular biomass in a solids-containing medium used as pre-culture for cellulase production. Biotechnology and Bioprocess Engineering, 2012, 17, 100-108.   | 2.6 | 13        |
| 10 | Recombinant protein production by engineered Escherichia coli in a pressurized airlift bioreactor: A techno-economic analysis. Chemical Engineering and Processing: Process Intensification, 2016, 103, 63-69.                            | 3.6 | 12        |
| 11 | Metabolic fluxes-oriented control of bioreactors: a novel approach to tune micro-aeration and substrate feeding in fermentations. Microbial Cell Factories, 2019, 18, 150.  | 4.0 | 12        |
| 12 | Production and purification of recombinant fragment of pneumococcal surface protein A (PspA) in Escherichia coli. Procedia in Vaccinology, 2011, 4, 27-35.  | 0.4 | 11        |
| 13 | Robust artificial intelligence tool for automatic start-up of the supplementary medium feeding in recombinant E. coli cultivations. Bioprocess and Biosystems Engineering, 2011, 34, 891-901.   | 3.4 | 9         |
| 14 | A High-Throughput Approach for Modeling and Simulation of Homofermentative Microorganisms Applied to Ethanol Fermentation by <i>S. cerevisiae</i> . Industrial Biotechnology, 2021, 17, 13-26.  | 0.8 | 9         |
| 15 | Machine learning applied for metabolic flux-based control of micro-aerated fermentations in bioreactors. Biotechnology and Bioengineering, 2021, 118, 2076-2091.  | 3.3 | 8         |
| 16 | Cloning, Auto-induction Expression, and Purification of rSpaA Swine Erysipelas Antigen. Current Microbiology, 2012, 65, 369-374.  | 2.2 | 7         |
| 17 | A Heuristic Search for Optimal Parameter Values of Three Biokinetic Growth Models for Describing Batch Cultivations of Streptococcus Pneumoniae in Bioreactors. Lecture Notes in Computer Science, 2008, , 359-368.                       | 1.3 | 3         |
| 18 | Optimized Dissolved Oxygen Fuzzy Control for Recombinant Escherichia coli Cultivations. Algorithms, 2021, 14, 326.  | 2.1 | 3         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | On-line prediction of the feeding phase in high-cell density cultivation of rE. coli using constructive neural networks. Computer Methods and Programs in Biomedicine, 2013, 111, 228-248.                | 4.7 | 2         |
| 20 | In silico Metabolic Flux Data Flexibilization for Advanced Bioreactor Control Applications. Industrial Biotechnology, 2020, 16, 61-66.  | 0.8 | 1         |
| 21 | An Empirical Investigation of the Use of a Neural Network Committee for Identifying the Streptococcus Pneumoniae Growth Phases in Batch Cultivations. Lecture Notes in Computer Science, 2008, , 215-224. | 1.3 | 1         |
| 22 | USO DE REDES NEURAIS PARA SIMULAÇÃO DE VARIÁVEIS MANIPULADAS E PREVISÃO DO CUSTO DE PRODUÇÃO DE PROTEÍNA RECOMBINANTE EM CULTIVOS DE Escherichia coli.. , 0, , .  |     | 0         |
| 23 | CUSTOS OPERACIONAIS DE CULTIVOS DE E. coli: COMPARAÇÃO ENTRE PROCESSOS EM TANQUE AGITADO E AIRLIFT. , 0, , .  |     | 0         |