

# Giuseppe Olivieri

## List of Publications by Year in descending order

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87  
papers

3,285  
citations

126907

33  
h-index

161849

54  
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93  
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93  
docs citations

93  
times ranked

3996  
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards industrial products from microalgae. <i>Energy and Environmental Science</i> , 2016, 9, 3036-3043.	30.8	468
2	Current Bottlenecks and Challenges of the Microalgal Biorefinery. <i>Trends in Biotechnology</i> , 2019, 37, 242-252.	9.3	174
3	Mild disintegration of the green microalgae <i>Chlorella vulgaris</i> using bead milling. <i>Bioresource Technology</i> , 2015, 184, 297-304.	9.6	148
4	Advances in photobioreactors for intensive microalgal production: configurations, operating strategies and applications. <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 178-195.	3.2	124
5	Segregation of fluidized binary mixtures of granular solids. <i>AIChE Journal</i> , 2004, 50, 3095-3106.	3.6	106
6	Deep Eutectic Solvents pretreatment of agro-industrial food waste. <i>Biotechnology for Biofuels</i> , 2018, 11, 37.	6.2	94
7	Low-energy biomass pretreatment with deep eutectic solvents for bio-butanol production. <i>Bioresource Technology</i> , 2017, 243, 464-473.	9.6	78
8	Post-combustion carbon capture mediated by carbonic anhydrase. <i>Separation and Purification Technology</i> , 2013, 107, 331-339.	7.9	75
9	Bubble coalescence: Effect of bubble approach velocity and liquid viscosity. <i>Chemical Engineering Science</i> , 2015, 134, 205-216.	3.8	70
10	Genetic engineering of <i>Synechocystis</i> sp. PCC6803 for poly- $\beta$ -hydroxybutyrate overproduction. <i>Algal Research</i> , 2017, 25, 117-127.	4.6	68
11	Butanol production by bioconversion of cheese whey in a continuous packed bed reactor. <i>Bioresource Technology</i> , 2013, 138, 259-265.	9.6	67
12	Pre-treatment and enzymatic hydrolysis of lettuce residues as feedstock for bio-butanol production. <i>Biomass and Bioenergy</i> , 2017, 96, 172-179.	5.7	67
13	Butanol production by <i>Clostridium acetobutylicum</i> in a continuous packed bed reactor. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2010, 37, 603-608.	3.0	64
14	Mild and Selective Protein Release of Cell Wall Deficient Microalgae with Pulsed Electric Field. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 6046-6053.	6.7	59
15	Continuous succinic acid fermentation by <i>Actinobacillus succinogenes</i> in a packed-bed biofilm reactor. <i>Biotechnology for Biofuels</i> , 2018, 11, 138.	6.2	59
16	Cationic polymers for successful flocculation of marine microalgae. <i>Bioresource Technology</i> , 2014, 169, 804-807.	9.6	52
17	Bioreactors for succinic acid production processes. <i>Critical Reviews in Biotechnology</i> , 2019, 39, 571-586.	9.0	52
18	Identification of an industrial microalgal strain for starch production in biorefinery context: The effect of nitrogen and carbon concentration on starch accumulation. <i>New Biotechnology</i> , 2018, 41, 46-54.	4.4	51

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19	Cost-effective production of recombinant peptides in Escherichia coli. <i>New Biotechnology</i> , 2019, 51, 39-48.	4.4	49
20	Olive mill wastewater remediation by means of <i>Pleurotus ostreatus</i> . <i>Biochemical Engineering Journal</i> , 2006, 31, 180-187.	3.6	48
21	Industrial Production of Poly- $\hat{1}^2$ -hydroxybutyrate from CO <sub>2</sub> : Can Cyanobacteria Meet this Challenge?. <i>Processes</i> , 2020, 8, 323.	2.8	48
22	Renewable feedstocks for biobutanol production by fermentation. <i>New Biotechnology</i> , 2017, 39, 135-140.	4.4	44
23	Butanol production from hexoses and pentoses by fermentation of <i>Clostridium acetobutylicum</i> . <i>Anaerobe</i> , 2015, 34, 146-155.	2.1	43
24	CFD simulation of bubbling fluidized bidisperse mixtures: Effect of integration methods and restitution coefficient. <i>Chemical Engineering Science</i> , 2013, 102, 324-334.	3.8	41
25	Bio-butanol separation by adsorption on various materials: Assessment of isotherms and effects of other ABE-fermentation compounds. <i>Separation and Purification Technology</i> , 2018, 191, 328-339.	7.9	39
26	Biosuccinic Acid from Lignocellulosic-Based Hexoses and Pentoses by <i>Actinobacillus succinogenes</i> : Characterization of the Conversion Process. <i>Applied Biochemistry and Biotechnology</i> , 2017, 183, 1465-1477.	2.9	37
27	From Current Algae Products to Future Biorefinery Practices: A Review. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2017, 166, 99-123.	1.1	37
28	Poly- $\hat{1}^2$ -hydroxybutyrate (PHB) production by <i>Synechocystis</i> PCC6803 from CO <sub>2</sub> : Model development. <i>Algal Research</i> , 2018, 29, 49-60.	4.6	37
29	Design of Value Chains for Microalgal Biorefinery at Industrial Scale: Process Integration and Techno-Economic Analysis. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 550758.	4.1	37
30	Effects of viscosity and relaxation time on the hydrodynamics of gas-liquid systems. <i>Chemical Engineering Science</i> , 2011, 66, 3392-3399.	3.8	35
31	Kinetic study of a novel thermo-stable $\hat{1}^{\pm}$ -carbonic anhydrase for biomimetic CO <sub>2</sub> capture. <i>Enzyme and Microbial Technology</i> , 2013, 53, 271-277.	3.2	35
32	Biodiesel production from <i>Stichococcus</i> strains at laboratory scale. <i>Journal of Chemical Technology and Biotechnology</i> , 2011, 86, 776-783.	3.2	34
33	A step forward in laccase exploitation: Recombinant production and evaluation of techno-economic feasibility of the process. <i>Journal of Biotechnology</i> , 2017, 259, 175-181.	3.8	34
34	Continuous lactose fermentation by <i>Clostridium acetobutylicum</i> – Assessment of acidogenesis kinetics. <i>Bioresource Technology</i> , 2011, 102, 1608-1614.	9.6	32
35	Kinetic study of butanol production from various sugars by <i>Clostridium acetobutylicum</i> using a dynamic model. <i>Biochemical Engineering Journal</i> , 2015, 99, 156-166.	3.6	32
36	Effects of photobioreactors design and operating conditions on <i>Stichococcus bacillaris</i> biomass and biodiesel production. <i>Biochemical Engineering Journal</i> , 2013, 74, 8-14.	3.6	31

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37	Hydrodynamics and mass transfer in a lab-scale three-phase internal loop airlift. <i>Chemical Engineering Journal</i> , 2003, 96, 45-54.	12.7	30
38	Exploitation of <i>Trametes versicolor</i> for bioremediation of endocrine disrupting chemicals in bioreactors. <i>PLoS ONE</i> , 2017, 12, e0178758.	2.5	29
39	Butanol Production from Leftover Beverages and Sport Drinks. <i>Bioenergy Research</i> , 2015, 8, 369-379.	3.9	28
40	Continuous Succinic Acid Fermentation by <i>Actinobacillus Succinogenes</i> : Assessment of Growth and Succinic Acid Production Kinetics. <i>Applied Biochemistry and Biotechnology</i> , 2019, 187, 782-799.	2.9	28
41	Photobioreactors for microalgal cultures: A Lagrangian model coupling hydrodynamics and kinetics. <i>Biotechnology Progress</i> , 2015, 31, 1259-1272.	2.6	27
42	Modeling of an aerobic biofilm reactor with double-limiting substrate kinetics: Bifurcational and dynamical analysis. <i>Biotechnology Progress</i> , 2011, 27, 1599-1613.	2.6	26
43	Bio-butanol recovery by adsorption/desorption processes. <i>Separation and Purification Technology</i> , 2020, 235, 116145.	7.9	26
44	Bioreactor and Bioprocess Design Issues in Enzymatic Hydrolysis of Lignocellulosic Biomass. <i>Catalysts</i> , 2021, 11, 680.	3.5	26
45	Bioremediation: An Overview on Current Practices, Advances, and New Perspectives in Environmental Pollution Treatment. <i>BioMed Research International</i> , 2017, 2017, 1-2.	1.9	25
46	Strategies for dephenolization of raw olive mill wastewater by means of <i>Pleurotus ostreatus</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , 2012, 39, 719-729.	3.0	24
47	New ultra-flat photobioreactor for intensive microalgal production: The effect of light irradiance. <i>Algal Research</i> , 2018, 34, 134-142.	4.6	24
48	Simultaneous production of antioxidants and starch from the microalga <i>Chlorella sorokiniana</i> . <i>Algal Research</i> , 2018, 34, 164-174.	4.6	23
49	Agro Food Wastes and Innovative Pretreatments to Meet Biofuel Demand in Europe. <i>Chemical Engineering and Technology</i> , 2019, 42, 954-961.	1.5	21
50	A thermophilic C-phycoyanin with unprecedented biophysical and biochemical properties. <i>International Journal of Biological Macromolecules</i> , 2020, 150, 38-51.	7.5	21
51	Fungal solid state fermentation on agro-industrial wastes for acid wastewater decolorization in a continuous flow packed-bed bioreactor. <i>Bioresource Technology</i> , 2011, 102, 7603-7607.	9.6	20
52	Towards green extraction methods from microalgae learning from the classics. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 9067-9077.	3.6	20
53	Green Compressed Fluid Technologies To Extract Antioxidants and Lipids from <i>Galdieria phlegrea</i> in a Biorefinery Approach. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 2939-2947.	6.7	20
54	Autotrophic starch production by <i>Chlamydomonas</i> species. <i>Journal of Applied Phycology</i> , 2017, 29, 105-114.	2.8	18

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55	A cascade extraction of active phycocyanin and fatty acids from <i>Galdieria phlegrea</i> . <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 9455-9464.	3.6	18
56	A fluid-bed continuous classifier of polydisperse granular solids. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2009, 40, 638-644.	5.3	17
57	Continuous xylose fermentation by <i>Clostridium acetobutylicum</i> – Kinetics and energetics issues under acidogenesis conditions. <i>Bioresource Technology</i> , 2014, 164, 155-161.	9.6	17
58	Modeling of slurry staged bubble column for biomimetic CO <sub>2</sub> capture. <i>International Journal of Greenhouse Gas Control</i> , 2016, 47, 200-209.	4.6	17
59	Continuous lactose fermentation by <i>Clostridium acetobutylicum</i> – Assessment of energetics and product yields of the acidogenesis. <i>Enzyme and Microbial Technology</i> , 2012, 50, 165-172.	3.2	16
60	Continuous lactose fermentation by <i>Clostridium acetobutylicum</i> – Assessment of solventogenic kinetics. <i>Bioresource Technology</i> , 2015, 180, 330-337.	9.6	16
61	Continuous xylose fermentation by <i>Clostridium acetobutylicum</i> – Assessment of solventogenic kinetics. <i>Bioresource Technology</i> , 2015, 192, 142-148.	9.6	16
62	Growth and biomass productivity of <i>Scenedesmus vacuolatus</i> on a twin layer system and a comparison with other types of cultivations. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 8321-8329.	3.6	16
63	Combined antioxidant-biofuel production from coffee silverskin. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 1021-1029.	3.6	16
64	Biomass and phycobiliprotein production of <i>Galdieria sulphuraria</i> , immobilized on a twin-layer porous substrate photobioreactor. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 3109-3119.	3.6	16
65	Efficient succinic acid production from high-sugar content beverages by <i>Actinobacillus succinogenes</i> . <i>Biotechnology Progress</i> , 2019, 35, e2863.	2.6	14
66	Alkaline direct transesterification of different species of <i>Stichococcus</i> for bio-oil production. <i>New Biotechnology</i> , 2016, 33, 797-806.	4.4	10
67	OPTIMIZATION OF SOLVENT RECOVERY IN THE PRODUCTION OF BUTANOL BY FERMENTATION. <i>Environmental Engineering and Management Journal</i> , 2012, 11, 1499-1504.	0.6	9
68	A TECHNO-ECONOMIC ANALYSIS OF BIODIESEL PRODUCTION FROM MICROALGAE. <i>Environmental Engineering and Management Journal</i> , 2013, 12, 1563-1573.	0.6	9
69	Kinetic characterization of the photosynthetic reaction centres in microalgae by means of fluorescence methodology. <i>Journal of Biotechnology</i> , 2015, 212, 1-10.	3.8	8
70	Comparison of <i>Galdieria</i> growth and photosynthetic activity in different culture systems. <i>AMB Express</i> , 2020, 10, 170.	3.0	8
71	<i>Scenedesmus vacuolatus</i> cultures for possible combined laccase-like phenoloxidase activity and biodiesel production. <i>Annals of Microbiology</i> , 2018, 68, 9-15.	2.6	7
72	A novel three-phase airlift reactor without circulation of solids. <i>Canadian Journal of Chemical Engineering</i> , 2010, 88, 574-578.	1.7	6

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73	Laccase-based synthesis of SIC-RED: A new dyeing product for protein gel staining. <i>Biocatalysis and Agricultural Biotechnology</i> , 2018, 15, 270-276.	3.1	6
74	Bioenergy II: An Assessment of the Kinetics of Butanol Production by <i>Clostridium acetobutylicum</i> . <i>International Journal of Chemical Reactor Engineering</i> , 2009, 7, .	1.1	5
75	Unstable steady state operations of substrate inhibited cultures by dissolved oxygen control. <i>Journal of Biotechnology</i> , 2011, 156, 302-308.	3.8	5
76	Nonlinear Analysis of Substrate-Inhibited Continuous Cultures Operated with Feedback Control on Dissolved Oxygen. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 13422-13431.	3.7	5
77	Switchable Solvent Selective Extraction of Hydrophobic Antioxidants from <i>Synechococcus bigranulatus</i> . <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 13798-13806.	6.7	4
78	Neochloris oleoabundans from nature to industry: a comprehensive review. <i>Reviews in Environmental Science and Biotechnology</i> , 2021, 20, 943-958.	8.1	3
79	TECHNO-ECONOMIC ANALYSIS OF A BUTANOL RECOVERY PROCESS BASED ON GAS STRIPPING TECHNIQUE. <i>Environmental Engineering and Management Journal</i> , 2017, 16, 1005-1016.	0.6	3
80	PHOTOAUTOTROPHIC PRODUCTION OF POLY- $\gamma$ -HYDROXYBUTYRATE (PHB) FROM CYANOBACTERIA: NITRATE EFFECTS AND SCREENING OF STRAINS. <i>Environmental Engineering and Management Journal</i> , 2019, 18, 1337-1346.	0.6	3
81	Immobilization of carbonic anhydrase for biomimetic CO <sub>2</sub> capture in slurry absorber. <i>New Biotechnology</i> , 2014, 31, S20-S21.	4.4	2
82	Model-Based Prediction of Perceived Light Flashing in Recirculated Inclined Wavy-Bottomed Photobioreactors. <i>Processes</i> , 2021, 9, 1158.	2.8	1
83	Thermo resistant antioxidants from photoautotrophic microorganisms: screening and characterization. <i>World Journal of Microbiology and Biotechnology</i> , 2021, 37, 215.	3.6	1
84	Polysaccharides production by autotrophic cultures of microalgae. <i>New Biotechnology</i> , 2014, 31, S17.	4.4	0
85	Factors influencing starch accumulation in microalga <i>Chlorella sorokiniana</i> . <i>New Biotechnology</i> , 2016, 33, S118.	4.4	0
86	Continuous butanol production by <i>Clostridium acetobutylicum</i> in a series of packed bed reactors. <i>New Biotechnology</i> , 2016, 33, S60.	4.4	0
87	Integrated Biorefineries for Algal Biomolecules. <i>Grand Challenges in Biology and Biotechnology</i> , 2019, , 293-317.	2.4	0