

Antonio Marzocchella

List of Publications by Year in descending order

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118
papers

4,328
citations

87886

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121
all docs

121
docs citations

121
times ranked

4680
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of enzymes adsorption on enzymatic hydrolysis of coffee silverskin: Kinetic characterization and validation. <i>Biochemical Engineering Journal</i> , 2022, 180, 108364.	3.6	5
2	A novel integrated fermentation/recovery system for butanol production by <i>Clostridium acetobutylicum</i> . <i>Chemical Engineering and Processing: Process Intensification</i> , 2022, 173, 108852.	3.6	2
3	Sustainability assessment of biotechnological processes: LCA and LCC of second-generation biobutanol production. , 2022, , 365-382.		2
4	Bioreactor modelling for syngas fermentation: Kinetic characterization. <i>Food and Bioproducts Processing</i> , 2022, 134, 1-18.	3.6	4
5	Immobilization of carbonic anhydrase for CO ₂ capture and utilization. <i>Applied Microbiology and Biotechnology</i> , 2022, 106, 3419-3430.	3.6	13
6	Bioreactor and Bioprocess Design Issues in Enzymatic Hydrolysis of Lignocellulosic Biomass. <i>Catalysts</i> , 2021, 11, 680.	3.5	26
7	Continuous succinic acid production by immobilized cells of <i>Actinobacillus succinogenes</i> in a fluidized bed reactor: Entrapment in alginate beads. <i>Biochemical Engineering Journal</i> , 2021, 169, 107968.	3.6	18
8	In vivo immobilized carbonic anhydrase and its effect on the enhancement of CO ₂ absorption rate. <i>Journal of Biotechnology</i> , 2021, 336, 41-49.	3.8	7
9	Bio-butanol recovery by adsorption/desorption processes. <i>Separation and Purification Technology</i> , 2020, 235, 116145.	7.9	26
10	Combined pretreatments of coffee silverskin to enhance fermentable sugar yield. <i>Biomass Conversion and Biorefinery</i> , 2020, 10, 1237-1249.	4.6	13
11	Batch Syngas Fermentation by <i>Clostridium carboxidivorans</i> for Production of Acids and Alcohols. <i>Processes</i> , 2020, 8, 1075.	2.8	20
12	Industrial Production of Poly- γ -hydroxybutyrate from CO ₂ : Can Cyanobacteria Meet this Challenge?. <i>Processes</i> , 2020, 8, 323.	2.8	48
13	Kinetic Characterization of Enzymatic Hydrolysis of Apple Pomace as Feedstock for a Sugar-Based Biorefinery. <i>Energies</i> , 2020, 13, 1051.	3.1	9
14	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
15	Integrated enzymatic pretreatment and hydrolysis of apple pomace in a bubble column bioreactor. <i>Biochemical Engineering Journal</i> , 2019, 150, 107306.	3.6	20
16	Efficient succinic acid production from high-sugar content beverages by <i>Actinobacillus succinogenes</i> . <i>Biotechnology Progress</i> , 2019, 35, e2863.	2.6	14
17	Investigation of Enzymatic Hydrolysis of Coffee Silverskin Aimed at the Production of Butanol and Succinic Acid by Fermentative Processes. <i>Bioenergy Research</i> , 2019, 12, 312-324.	3.9	23
18	Clostridial conversion of corn syrup to Acetone-Butanol-Ethanol (ABE) via batch and fed-batch fermentation. <i>Heliyon</i> , 2019, 5, e01401.	3.2	27

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19	Butanol production from laccase-pretreated brewer's spent grain. <i>Biotechnology for Biofuels</i> , 2019, 12, 47.	6.2	36
20	Bioreactors for succinic acid production processes. <i>Critical Reviews in Biotechnology</i> , 2019, 39, 571-586.	9.0	52
21	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
22	Combined antioxidant-biofuel production from coffee silverskin. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 1021-1029.	3.6	16
23	Current Bottlenecks and Challenges of the Microalgal Biorefinery. <i>Trends in Biotechnology</i> , 2019, 37, 242-252.	9.3	174
24	Poly- γ -hydroxybutyrate (PHB) production by <i>Synechocystis</i> PCC6803 from CO ₂ : Model development. <i>Algal Research</i> , 2018, 29, 49-60.	4.6	37
25	Deep Eutectic Solvents pretreatment of agro-industrial food waste. <i>Biotechnology for Biofuels</i> , 2018, 11, 37.	6.2	94
26	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
27	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
28	Characterization of technical grade carbonic anhydrase as biocatalyst for CO ₂ capture in potassium carbonate solutions. , 2018, 8, 279-291.		14
29	Kinetic characterization of carbonic anhydrase immobilized on magnetic nanoparticles as biocatalyst for CO ₂ capture. <i>Biochemical Engineering Journal</i> , 2018, 138, 1-11.	3.6	29
30	Simultaneous production of antioxidants and starch from the microalga <i>Chlorella sorokiniana</i> . <i>Algal Research</i> , 2018, 34, 164-174.	4.6	23
31	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
32	New ultra-flat photobioreactor for intensive microalgal production: The effect of light irradiance. <i>Algal Research</i> , 2018, 34, 134-142.	4.6	24
33	Genetic engineering of <i>Synechocystis</i> sp. PCC6803 for poly- γ -hydroxybutyrate overproduction. <i>Algal Research</i> , 2017, 25, 117-127.	4.6	68
34	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
35	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
36	Fluidised bed drying of powdered materials: Effects of operating conditions. <i>Powder Technology</i> , 2017, 308, 158-164.	4.2	13

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37	Structure and activity of magnetic cross-linked enzyme aggregates of bovine carbonic anhydrase as promoters of enzymatic CO ₂ capture. <i>Biochemical Engineering Journal</i> , 2017, 127, 188-195.	3.6	26
38	Valorization of Apple Pomace by Extraction of Valuable Compounds. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2017, 16, 776-796.	11.7	172
39	Low-energy biomass pretreatment with deep eutectic solvents for bio-butanol production. <i>Bioresource Technology</i> , 2017, 243, 464-473.	9.6	78
40	Renewable feedstocks for biobutanol production by fermentation. <i>New Biotechnology</i> , 2017, 39, 135-140.	4.4	44
41	Autotrophic starch production by <i>Chlamydomonas</i> species. <i>Journal of Applied Phycology</i> , 2017, 29, 105-114.	2.8	18
42	Exploitation of <i>Trametes versicolor</i> for bioremediation of endocrine disrupting chemicals in bioreactors. <i>PLoS ONE</i> , 2017, 12, e0178758.	2.5	29
43	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
44	Stabilization of <i>Candida antarctica</i> Lipase B (CALB) Immobilized on Octyl Agarose by Treatment with Polyethyleneimine (PEI). <i>Molecules</i> , 2016, 21, 751.	3.8	47
45	Ion exchange of β -galactosidase: The effect of the immobilization pH on enzyme stability. <i>Process Biochemistry</i> , 2016, 51, 875-880.	3.7	52
46	Reuse of anion exchangers as supports for enzyme immobilization: Reinforcement of the enzyme-support multiinteraction after enzyme inactivation. <i>Process Biochemistry</i> , 2016, 51, 1391-1396.	3.7	50
47	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
48	Butanol production by <i>Clostridium acetobutylicum</i> in a series of packed bed biofilm reactors. <i>Chemical Engineering Science</i> , 2016, 152, 678-688.	3.8	25
49	Development of simple protocols to solve the problems of enzyme coimmobilization. Application to coimmobilize a lipase and a β -galactosidase. <i>RSC Advances</i> , 2016, 6, 61707-61715.	3.6	93
50	Modeling of slurry staged bubble column for biomimetic CO ₂ capture. <i>International Journal of Greenhouse Gas Control</i> , 2016, 47, 200-209.	4.6	17
51	Photobioreactors for microalgal cultures: A Lagrangian model coupling hydrodynamics and kinetics. <i>Biotechnology Progress</i> , 2015, 31, 1259-1272.	2.6	27
52	Bubble coalescence: Effect of bubble approach velocity and liquid viscosity. <i>Chemical Engineering Science</i> , 2015, 134, 205-216.	3.8	70
53	Butanol production from hexoses and pentoses by fermentation of <i>Clostridium acetobutylicum</i> . <i>Anaerobe</i> , 2015, 34, 146-155.	2.1	43
54	Deep eutectic solvent pretreatment and subsequent saccharification of corncob. <i>Bioresource Technology</i> , 2015, 192, 31-36.	9.6	273

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55	Continuous lactose fermentation by <i>Clostridium acetobutylicum</i> – Assessment of solventogenic kinetics. <i>Bioresource Technology</i> , 2015, 180, 330-337.	9.6	16
56	Butanol Production from Leftover Beverages and Sport Drinks. <i>Bioenergy Research</i> , 2015, 8, 369-379.	3.9	28
57	Continuous xylose fermentation by <i>Clostridium acetobutylicum</i> – Assessment of solventogenic kinetics. <i>Bioresource Technology</i> , 2015, 192, 142-148.	9.6	16
58	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
59	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
60	Immobilization of <i>Pleurotus ostreatus</i> Laccase Mixture on Perlite and Its Application to Dye Decolourisation. <i>BioMed Research International</i> , 2014, 2014, 1-11.	1.9	40
61	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
62	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
63	Cellulosic butanol production from alkali-pretreated switchgrass (<i>Panicum virgatum</i>) and phragmites (<i>Phragmites australis</i>). <i>Bioresource Technology</i> , 2014, 174, 176-181.	9.6	75
64	Post-combustion carbon capture mediated by carbonic anhydrase. <i>Separation and Purification Technology</i> , 2013, 107, 331-339.	7.9	75
65	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
66	Butanol production by bioconversion of cheese whey in a continuous packed bed reactor. <i>Bioresource Technology</i> , 2013, 138, 259-265.	9.6	67
67	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
68	Kinetic study of a novel thermo-stable α -carbonic anhydrase for biomimetic CO ₂ capture. <i>Enzyme and Microbial Technology</i> , 2013, 53, 271-277.	3.2	35
69	Nonlinear Analysis of Substrate-Inhibited Continuous Cultures Operated with Feedback Control on Dissolved Oxygen. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 13422-13431.	3.7	5
70	A TECHNO-ECONOMIC ANALYSIS OF BIODIESEL PRODUCTION FROM MICROALGAE. <i>Environmental Engineering and Management Journal</i> , 2013, 12, 1563-1573.	0.6	9
71	CO ₂ CAPTURE BY BIOMIMETIC ADSORPTION: ENZYME MEDIATED CO ₂ ABSORPTION FOR POST-COMBUSTION CARBON SEQUESTRATION AND STORAGE PROCESS. <i>Environmental Engineering and Management Journal</i> , 2013, 12, 1595-1603.	0.6	7
72	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

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73	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
74	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
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	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
77	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
78	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
79	Continuous lactose fermentation by <i>Clostridium acetobutylicum</i> – Assessment of acidogenesis kinetics. <i>Bioresource Technology</i> , 2011, 102, 1608-1614.	9.6	32
80	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
81	A novel three-phase airlift reactor without circulation of solids. <i>Canadian Journal of Chemical Engineering</i> , 2010, 88, 574-578.	1.7	6
82	Adsorption of acid dyes on fungal biomass: Equilibrium and kinetics characterization. <i>Chemical Engineering Journal</i> , 2010, 162, 537-545.	12.7	50
83	Bioreactors for Azo-Dye Conversion. <i>Handbook of Environmental Chemistry</i> , 2010, , 101-131.	0.4	4
84	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
85	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
86	Self-fluidization of subaerial rapid granular flows. <i>Powder Technology</i> , 2008, 182, 323-333.	4.2	18
87	Assessment of anthraquinone-dye conversion by free and immobilized crude laccase mixtures. <i>Enzyme and Microbial Technology</i> , 2008, 42, 521-530.	3.2	47
88	Bifurcational and dynamical analysis of a continuous biofilm reactor. <i>Journal of Biotechnology</i> , 2008, 135, 295-303.	3.8	21
89	Azo-dye conversion by means of <i>Pseudomonas</i> sp. OX1. <i>Enzyme and Microbial Technology</i> , 2007, 41, 646-652.	3.2	28
90	Laser diagnostics of hydrodynamics and gas-mixing induced by bubble bursting at the surface of gas-fluidized beds. <i>Chemical Engineering Science</i> , 2007, 62, 94-108.	3.8	18

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91	Fluidization and de-aeration of pyroclastic mixtures: The influence of fines content, polydispersity and shear flow. <i>Journal of Volcanology and Geothermal Research</i> , 2007, 164, 284-292.	2.1	15
92	Local and global hydrodynamics in a two-phase internal loop airlift. <i>Chemical Engineering Science</i> , 2007, 62, 7068-7077.	3.8	20
93	An airlift biofilm reactor for the biodegradation of phenol by <i>Pseudomonas stutzeri</i> OX1. <i>Journal of Biotechnology</i> , 2006, 123, 464-477.	3.8	51
94	Olive mill wastewater remediation by means of <i>Pleurotus ostreatus</i> . <i>Biochemical Engineering Journal</i> , 2006, 31, 180-187.	3.6	48
95	Assessment of gas-fluidized beds mixing and hydrodynamics by zirconia sensors. <i>AIChE Journal</i> , 2006, 52, 185-198.	3.6	13
96	Fluidization and attrition of pyroclastic granular solids. <i>Journal of Volcanology and Geothermal Research</i> , 2004, 138, 27-42.	2.1	18
97	Segregation of fluidized binary mixtures of granular solids. <i>AIChE Journal</i> , 2004, 50, 3095-3106.	3.6	106
98	Flow Structures and Gas-Mixing Induced by Bubble Bursting at the Surface of an Incipiently Gas-Fluidized Bed. <i>Industrial & Engineering Chemistry Research</i> , 2004, 43, 5738-5753.	3.7	17
99	Hydrodynamic interaction between a coarse gas-emitting particle and a gas fluidized bed of finer solids. <i>Powder Technology</i> , 2003, 133, 79-90.	4.2	41
100	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
101	Modelling Fuel and Sorbent Attrition During Circulating Fluidized Bed Combustion of Coal. , 2003, , .		2
102	Gas-Mixing in Bubbling Fluidized Bed Combustors: Hydrodynamics and Macromixing Associated With Bubble Bursting at the Bed Surface. , 2003, , .		0
103	Self-segregation of high-volatile fuel particles during devolatilization in a fluidized bed reactor. <i>Powder Technology</i> , 2002, 128, 11-21.	4.2	88
104	Modelling the SO ₂ –limestone reaction under periodically changing oxidizing/reducing conditions: the influence of cycle time on reaction rate. <i>Chemical Engineering Science</i> , 2002, 57, 631-641.	3.8	12
105	Fluidization of solids with CO ₂ at pressures from ambient to supercritical. <i>AIChE Journal</i> , 2000, 46, 901-910.	3.6	54
106	Transient fluidization and segregation of binary mixtures of particles. <i>AIChE Journal</i> , 2000, 46, 2175-2182.	3.6	108
107	Fluidization regimes and transitions from fixed bed to dilute transport flow. <i>Powder Technology</i> , 1998, 95, 185-204.	4.2	86
108	Chaotic behavior of gas-solids flow in the riser of a laboratory-scale circulating fluidized bed. <i>AIChE Journal</i> , 1997, 43, 1458-1468.	3.6	64

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109	Segregation of fuel particles and volatile matter during devolatilization in a fluidized bed reactorâ€”I. Model development. Chemical Engineering Science, 1997, 52, 1893-1908.	3.8	43
110	Segregation of fuel particles and volatile matter during devolatilization in a fluidized bed reactorâ€”II. Experimental. Chemical Engineering Science, 1997, 52, 1909-1922.	3.8	70
111	Mixing of a lateral gas stream in a two-dimensional riser of a circulating fluidized bed. Canadian Journal of Chemical Engineering, 1996, 74, 195-202.	1.7	2
112	Hydrodynamics of a circulating fluidized bed operated with different secondary air injection devices. Powder Technology, 1996, 87, 185-191.	4.2	35
113	Hydrodynamics of circulating fluidized beds with risers of different shape and size. Powder Technology, 1992, 70, 237-247.	4.2	16
114	Hydrodynamics of circulating fluidized beds with risers of different shape and size. Powder Technology, 1992, 71, 116.	4.2	2
115	Break-up of cylindrical clusters of solid particles under gravity flow in a two-dimensional column. Powder Technology, 1991, 65, 453-460.	4.2	9
116	Optoelectronic technique for the characterization of high concentration gasâ€”solid suspension. Applied Optics, 1990, 29, 1317.	2.1	11
117	JSFR combustion processes of n-heptane and isooctane. Proceedings of the Combustion Institute, 1989, 22, 1625-1633.	0.3	25
118	Solids flow structures in a two-dimensional riser of a circulating fluidized bed.. Journal of Chemical Engineering of Japan, 1989, 22, 236-241.	0.6	21