

Maria Elena Russo

List of Publications by Year in descending order

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52
papers

1,453
citations

279701

23
h-index

330025

37
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61
all docs

61
docs citations

61
times ranked

1778
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep Eutectic Solvents pretreatment of agro-industrial food waste. <i>Biotechnology for Biofuels</i> , 2018, 11, 37.	6.2	94
2	Development of simple protocols to solve the problems of enzyme coimmobilization. Application to coimmobilize a lipase and a Î²-galactosidase. <i>RSC Advances</i> , 2016, 6, 61707-61715.	1.7	93
3	Low-energy biomass pretreatment with deep eutectic solvents for bio-butanol production. <i>Bioresource Technology</i> , 2017, 243, 464-473.	4.8	78
4	Post-combustion carbon capture mediated by carbonic anhydrase. <i>Separation and Purification Technology</i> , 2013, 107, 331-339.	3.9	75
5	Butanol production by bioconversion of cheese whey in a continuous packed bed reactor. <i>Bioresource Technology</i> , 2013, 138, 259-265.	4.8	67
6	Pre-treatment and enzymatic hydrolysis of lettuce residues as feedstock for bio-butanol production. <i>Biomass and Bioenergy</i> , 2017, 96, 172-179.	2.9	67
7	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.	1.4	64
8	Adsorption of acid dyes on fungal biomass: Equilibrium and kinetics characterization. <i>Chemical Engineering Journal</i> , 2010, 162, 537-545.	6.6	50
9	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.	1.8	50
10	Assessment of anthraquinone-dye conversion by free and immobilized crude laccase mixtures. <i>Enzyme and Microbial Technology</i> , 2008, 42, 521-530.	1.6	47
11	Stabilization of <i>Candida antarctica</i> Lipase B (CALB) Immobilized on Octyl Agarose by Treatment with Polyethyleneimine (PEI). <i>Molecules</i> , 2016, 21, 751.	1.7	47
12	Renewable feedstocks for biobutanol production by fermentation. <i>New Biotechnology</i> , 2017, 39, 135-140.	2.4	44
13	Immobilization of a <i>Pleurotus ostreatus</i> Laccase Mixture on Perlite and Its Application to Dye Decolourisation. <i>BioMed Research International</i> , 2014, 2014, 1-11.	0.9	40
14	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.	3.9	39
15	Effects of viscosity and relaxation time on the hydrodynamics of gas-liquid systems. <i>Chemical Engineering Science</i> , 2011, 66, 3392-3399.	1.9	35
16	Kinetic study of a novel thermo-stable Î±-carbonic anhydrase for biomimetic CO ₂ capture. <i>Enzyme and Microbial Technology</i> , 2013, 53, 271-277.	1.6	35
17	Continuous lactose fermentation by <i>Clostridium acetobutylicum</i> - Assessment of acidogenesis kinetics. <i>Bioresource Technology</i> , 2011, 102, 1608-1614.	4.8	32
18	Kinetic characterization of carbonic anhydrase immobilized on magnetic nanoparticles as biocatalyst for CO ₂ capture. <i>Biochemical Engineering Journal</i> , 2018, 138, 1-11.	1.8	29

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19	Modeling of an aerobic biofilm reactor with double limiting substrate kinetics: Bifurcational and dynamical analysis. <i>Biotechnology Progress</i> , 2011, 27, 1599-1613.	1.3	26
20	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.	1.8	26
21	Bio-butanol recovery by adsorption/desorption processes. <i>Separation and Purification Technology</i> , 2020, 235, 116145.	3.9	26
22	Bioreactor and Bioprocess Design Issues in Enzymatic Hydrolysis of Lignocellulosic Biomass. <i>Catalysts</i> , 2021, 11, 680.	1.6	26
23	Butanol production by <i>Clostridium acetobutylicum</i> in a series of packed bed biofilm reactors. <i>Chemical Engineering Science</i> , 2016, 152, 678-688.	1.9	25
24	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.	1.4	24
25	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.	2.2	23
26	Bifurcational and dynamical analysis of a continuous biofilm reactor. <i>Journal of Biotechnology</i> , 2008, 135, 295-303.	1.9	21
27	Agro Food Wastes and Innovative Pretreatments to Meet Biofuel Demand in Europe. <i>Chemical Engineering and Technology</i> , 2019, 42, 954-961.	0.9	21
28	Integrated enzymatic pretreatment and hydrolysis of apple pomace in a bubble column bioreactor. <i>Biochemical Engineering Journal</i> , 2019, 150, 107306.	1.8	20
29	Batch Syngas Fermentation by <i>Clostridium carboxidivorans</i> for Production of Acids and Alcohols. <i>Processes</i> , 2020, 8, 1075.	1.3	20
30	Continuous xylose fermentation by <i>Clostridium acetobutylicum</i> – Kinetics and energetics issues under acidogenesis conditions. <i>Bioresource Technology</i> , 2014, 164, 155-161.	4.8	17
31	Modeling of slurry staged bubble column for biomimetic CO ₂ capture. <i>International Journal of Greenhouse Gas Control</i> , 2016, 47, 200-209.	2.3	17
32	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.	1.6	16
33	Continuous lactose fermentation by <i>Clostridium acetobutylicum</i> – Assessment of solventogenic kinetics. <i>Bioresource Technology</i> , 2015, 180, 330-337.	4.8	16
34	Continuous xylose fermentation by <i>Clostridium acetobutylicum</i> – Assessment of solventogenic kinetics. <i>Bioresource Technology</i> , 2015, 192, 142-148.	4.8	16
35	Combined antioxidant-biofuel production from coffee silverskin. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 1021-1029.	1.7	16
36	Characterization of technical grade carbonic anhydrase as biocatalyst for CO ₂ capture in potassium carbonate solutions. , 2018, 8, 279-291.		14

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37	Combined pretreatments of coffee silverskin to enhance fermentable sugar yield. <i>Biomass Conversion and Biorefinery</i> , 2020, 10, 1237-1249.	2.9	13
38	Immobilization of carbonic anhydrase for CO ₂ capture and utilization. <i>Applied Microbiology and Biotechnology</i> , 2022, 106, 3419-3430.	1.7	13
39	Kinetic Characterization of Enzymatic Hydrolysis of Apple Pomace as Feedstock for a Sugar-Based Biorefinery. <i>Energies</i> , 2020, 13, 1051.	1.6	9
40	OPTIMIZATION OF SOLVENT RECOVERY IN THE PRODUCTION OF BUTANOL BY FERMENTATION. <i>Environmental Engineering and Management Journal</i> , 2012, 11, 1499-1504.	0.2	9
41	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.	1.9	7
42	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.	0.2	7
43	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, .	0.6	5
44	Unstable steady state operations of substrate inhibited cultures by dissolved oxygen control. <i>Journal of Biotechnology</i> , 2011, 156, 302-308.	1.9	5
45	Nonlinear Analysis of Substrate-Inhibited Continuous Cultures Operated with Feedback Control on Dissolved Oxygen. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 13422-13431.	1.8	5
46	Effect of enzymes adsorption on enzymatic hydrolysis of coffee silverskin: Kinetic characterization and validation. <i>Biochemical Engineering Journal</i> , 2022, 180, 108364.	1.8	5
47	Bioreactor modelling for syngas fermentation: Kinetic characterization. <i>Food and Bioprocess Processing</i> , 2022, 134, 1-18.	1.8	4
48	Immobilization of carbonic anhydrase for biomimetic CO ₂ capture in slurry absorber. <i>New Biotechnology</i> , 2014, 31, S20-S21.	2.4	2
49	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.	1.8	2
50	Immobilization of carbonic anhydrase for enhancement of CO ₂ reactive absorption. <i>New Biotechnology</i> , 2018, 44, S44.	2.4	1
51	Characterization of the growth kinetics of <i>Pseudomonas</i> sp. OX1 on phenol: continuous culture under controlled unstable steady state conditions. <i>Journal of Biotechnology</i> , 2010, 150, 394-394.	1.9	0
52	Continuous butanol production by <i>Clostridium acetobutylicum</i> in a series of packed bed reactors. <i>New Biotechnology</i> , 2016, 33, S60.	2.4	0