

Bernardo Ruggeri

List of Publications by Year in descending order

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75
papers

1,452
citations

331670

21
h-index

361022

35
g-index

77
all docs

77
docs citations

77
times ranked

1899
citing authors

#	ARTICLE	IF	CITATIONS
1	Citrus waste as feedstock for bio-based products recovery: Review on limonene case study and energy valorization. <i>Bioresource Technology</i> , 2016, 214, 806-815.	9.6	161
2	Life cycle assessment of orange peel waste management. <i>Resources, Conservation and Recycling</i> , 2017, 127, 148-158.	10.8	85
3	Selection of the best pretreatment for hydrogen and bioethanol production from olive oil waste products. <i>Renewable Energy</i> , 2016, 88, 401-407.	8.9	77
4	Surface modification of commercial carbon felt used as anode for Microbial Fuel Cells. <i>Energy</i> , 2016, 99, 193-201.	8.8	76
5	Fungal biodegradation of naphthalene: microcosms studies. <i>Chemosphere</i> , 2005, 60, 636-643.	8.2	59
6	The selection of pretreatment options for anaerobic digestion (AD): A case study in olive oil waste production. <i>Chemical Engineering Journal</i> , 2015, 259, 630-639.	12.7	59
7	Energy balance of dark anaerobic fermentation as a tool for sustainability analysis. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 10202-10211.	7.1	54
8	Denitrification of water in a microbial fuel cell (MFC) using seawater bacteria. <i>Journal of Cleaner Production</i> , 2018, 178, 449-456.	9.3	44
9	BioH ₂ & BioCH ₄ Through Anaerobic Digestion. <i>Green Energy and Technology</i> , 2015, , .	0.6	36
10	Scaled-up experimental biogas production from two agro-food waste mixtures having high inhibitory compound concentrations. <i>Renewable Energy</i> , 2015, 81, 71-77.	8.9	36
11	Efficiency and efficacy of pre-treatment and bioreaction for bio-H ₂ energy production from organic waste. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 6491-6502.	7.1	33
12	Streamlining of commercial Berl saddles: A new material to improve the performance of microbial fuel cells. <i>Energy</i> , 2014, 71, 615-623.	8.8	33
13	Development of a Photosynthetic Microbial Electrochemical Cell (PMEC) Reactor Coupled with Dark Fermentation of Organic Wastes: Medium Term Perspectives. <i>Energies</i> , 2015, 8, 399-429.	3.1	33
14	Mixing in digesters used to treat high viscosity substrates: The case of olive oil production wastes. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 915-923.	6.7	28
15	Continuous two-step anaerobic digestion (TSAD) of organic market waste: rationalising process parameters. <i>International Journal of Energy and Environmental Engineering</i> , 2019, 10, 413-427.	2.5	25
16	Experimental identification of a scalable reactor configuration for lignin peroxidase production by <i>Phanerochaete chrysosporium</i> . <i>Journal of Biotechnology</i> , 1996, 52, 21-29.	3.8	23
17	Is the Anaerobic Digestion (AD) sustainable from the energy point of view?. <i>Energy Conversion and Management</i> , 2021, 231, 113857.	9.2	23
18	Energy valorisation of residues of dark anaerobic production of Hydrogen. <i>Journal of Cleaner Production</i> , 2012, 34, 91-97.	9.3	22

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19	Continuous extraction loop reactor (CELR): Alcoholic fermentation by fluidized entrapped biomass. <i>Chemical Engineering Science</i> , 1988, 43, 1891-1896.	3.8	21
20	Theoretical and practical aspects of circulating fluidized bed reactors (CFBRs) for complex chemical systems. <i>Chemical Engineering Science</i> , 1990, 45, 2219-2225.	3.8	21
21	Diffusion phenomena in the spherical matrices used for cell immobilization. <i>The Chemical Engineering Journal</i> , 1991, 46, B21-B29.	0.3	21
22	Energy Sustainability Analysis (ESA) of Energy-Producing Processes: A Case Study on Distributed H ₂ Production. <i>Sustainability</i> , 2019, 11, 4911.	3.2	21
23	Acid pre-treatment of sewage anaerobic sludge to increase hydrogen producing bacteria HPB: effectiveness and reproducibility. <i>Water Science and Technology</i> , 2008, 58, 1623-1628.	2.5	20
24	Energy efficacy used to score organic refuse pretreatment processes for hydrogen anaerobic production. <i>Waste Management</i> , 2013, 33, 2225-2233.	7.4	20
25	Multistep anaerobic digestion (MAD) as a tool to increase energy production via H ₂ +CH ₄ . <i>International Journal of Hydrogen Energy</i> , 2015, 40, 5050-5061.	7.1	20
26	Quantitative estimation of uncertainty in human risk analysis. <i>Journal of Hazardous Materials</i> , 2007, 145, 296-304.	12.4	19
27	Toward the scale-up of agro-food feed mixture for biogas production. <i>Journal of Environmental Chemical Engineering</i> , 2013, 1, 1223-1230.	6.7	19
28	Decolorization of Congo Red by <i>Phanerochaete chrysosporium</i> : the role of biosorption and biodegradation. <i>Environmental Technology (United Kingdom)</i> , 2017, 38, 2581-2588.	2.2	19
29	Macro approach analysis of dark biohydrogen production in the presence of zero valent powered Fe ⁰ . <i>Energy</i> , 2018, 159, 525-533.	8.8	19
30	Long term testing of Microbial Fuel Cells: Comparison of different anode materials. <i>Bioresource Technology</i> , 2016, 219, 37-44.	9.6	18
31	ON THE MODELLING APPROACHES OF BIOMASS BEHAVIOUR IN BIOREACTOR. <i>Chemical Engineering Communications</i> , 1993, 122, 1-56.	2.6	17
32	Experimental sensitivity analysis of a trickle bed bioreactor for lignin peroxidases production by <i>P. chrysosporium</i> . <i>Process Biochemistry</i> , 2003, 38, 1669-1676.	3.7	17
33	Recovery of D-limonene through moderate temperature extraction and pyrolytic products from orange peels. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 1186-1191.	3.2	17
34	Effect of Temperature, pH, Ionic Strength, and Sodium Nitrate on Activity of LiPs: Implications for Bioremediation. <i>Bioremediation Journal</i> , 2002, 6, 65-76.	2.0	15
35	Experimental kinetics and dynamics of hydrogen production on glucose by hydrogen forming bacteria (HFB) culture. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 753-763.	7.1	15
36	Recovery of Energy from Orange Peels Through Anaerobic Digestion and Pyrolysis Processes after d-Limonene Extraction. <i>Waste and Biomass Valorization</i> , 2018, 9, 1331-1337.	3.4	15

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37	Determination of optimal biofilm activity in a biological fluidized bed (BFB) reactor. <i>Water Science and Technology</i> , 1994, 29, 347-351.	2.5	15
38	MECHANISMS OF ACTIVATED CARBON BIOREMOVAL. <i>Chemical Engineering Communications</i> , 1988, 68, 99-117.	2.6	14
39	Alginate beads coated with polyacrylamide resin: potential as a biocatalyst. <i>Process Biochemistry</i> , 1991, 26, 331-335.	3.7	13
40	On the pre-treatment of municipal organic waste towards fuel production: a review. <i>International Journal of Environment and Pollution</i> , 2012, 49, 226.	0.2	12
41	Valorisation of by-Products/Waste of Agro-Food Industry by the Pyrolysis Process. <i>Journal of Advanced Catalysis Science and Technology</i> , 2016, 3, 1-11.	1.0	11
42	Citric acid production by <i>A. niger</i> with banana extract. <i>Bioresource Technology</i> , 1991, 37, 259-269.	9.6	10
43	Dietary vs. transport: an analysis of environmental burdens pertaining to a typical workday. <i>International Journal of Consumer Studies</i> , 2012, 36, 133-140.	11.6	10
44	Ethanol production from lactose by <i>Kluyveromyces fragilis</i> : Kinetic study on an immobilized yeast reactor. <i>The Chemical Engineering Journal</i> , 1988, 37, B23-B30.	0.3	9
45	An analytical model to study the performance of an anaerobic digester. <i>Agricultural Wastes</i> , 1983, 5, 37-50.	0.4	8
46	Numerical estimation of biokinetic parameters. <i>The Chemical Engineering Journal</i> , 1988, 39, B17-B24.	0.3	8
47	Supported liquid phase reactor (SLPR) for PCBs in oil decontamination. <i>Chemical Engineering Science</i> , 1990, 45, 2687-2693.	3.8	8
48	Performances of a trickle-bed reactor (TBR) for exoenzymes production by <i>Phanerochaete chrysosporium</i> : influence of superficial liquid velocity. <i>Chemical Engineering Science</i> , 1999, 54, 3163-3169.	3.8	8
49	Development of Fuzzylogic model to predict the effects of ZnO nanoparticles on methane production from simulated landfill. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 5944-5953.	6.7	8
50	Relaxation time analysis of a rotating biological contactor. <i>Chemical Engineering Science</i> , 1996, 51, 2853-2858.	3.8	7
51	Evaluation of sustainable useful index (SUI) by fuzzy approach for energy producing processes. <i>Chemical Engineering Research and Design</i> , 2016, 107, 153-166.	5.6	7
52	Co-digestion of orange peels and marine seaweed with cattle manure to suppress inhibition from toxicants. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 3209-3218.	4.6	7
53	Uncertainty Evaluation of Human Risk Analysis (HRA) of Chemicals by Multiple Exposure Routes. <i>Risk Analysis</i> , 2008, 28, 1343-1356.	2.7	6
54	A holistic view of (bio)kinetics. <i>Chemical Engineering Science</i> , 1994, 49, 4121-4132.	3.8	5

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55	Chemicals exposure: Scoring procedure and uncertainty propagation in scenario selection for risk analysis. <i>Chemosphere</i> , 2009, 77, 330-338.	8.2	5
56	Macro Approach and Fuzzy Modeling of Entrapped Biocatalyst. <i>Biotechnology Progress</i> , 2000, 16, 44-51.	2.6	4
57	The stability conditions of the fed-batch reactor. Part I: Monod type growth kinetics. <i>Journal of Chemical Technology and Biotechnology</i> , 1988, 42, 261-275.	3.2	4
58	Experimental tests on commercial Sweet Product Residue (SPR) as a suitable feed for anaerobic bioenergy (H ₂ + CH ₄) production. <i>Waste Management</i> , 2018, 71, 626-635.	7.4	4
59	LIQUID INJECTION TO ENHANCE BIOGAS PRODUCTION IN LANDFILLS FOR PRETREATED MUNICIPAL SOLID WASTES - BIO.LEA.R. PROJECT (LIFE+ PROGRAM). <i>Environmental Engineering and Management Journal</i> , 2015, 14, 1623-1636.	0.6	4
60	REACTION ENGINEERING OF CHEMICAL PCBs DECHLORINATION: AN EXPERIMENTAL APPROACH. <i>Chemical Engineering Communications</i> , 1996, 145, 89-102.	2.6	3
61	Landfill Bioreactor Technology for Waste Management. <i>Environmental Footprints and Eco-design of Products and Processes</i> , 2016, , 211-235.	1.1	3
62	Experimental simulation and fuzzy modelling of landfill biogas production from low-biodegradable MBT waste under leachate recirculation. <i>Environmental Technology (United Kingdom)</i> , 2018, 39, 2568-2582.	2.2	3
63	Kinetic and thermal aspects of biogas production. <i>Agricultural Wastes</i> , 1986, 16, 183-200.	0.4	2
64	Mass transfer and observed activity for entrapped biomass. <i>Chemical Engineering Science</i> , 1992, 47, 2363-2368.	3.8	2
65	The stability conditions of the fed-batch reactor. Part II: Luedeking-piret type growth kinetics. <i>Journal of Chemical Technology and Biotechnology</i> , 2007, 43, 13-22.	3.2	2
66	Hydrogen Production from Biowaste. <i>Green Energy and Technology</i> , 2015, , 107-135.	0.6	2
67	Impact of Gas Hydrate Inhibitors on Halite Scale Precipitation: An Experimental and Morphological Investigation. , 2018, , .		2
68	Monitoring the Physiological State in the Dark Fermentation of Maize/Grass Silage Using Flow Cytometry and Electrooptic Polarizability Measurements. <i>Bioenergy Research</i> , 2021, 14, 910-923.	3.9	2
69	Sustainability of (H ₂ +CH ₄) by Anaerobic Digestion via EROI Approach and LCA Evaluations. <i>Green Energy and Technology</i> , 2013, , 169-194.	0.6	2
70	Development of a photo-electrochemical (PEC) reactor to convert carbon dioxide into methanol for biorefining. , 2014, , 186-215.		1
71	Energy Sustainability Evaluation of Anaerobic Digestion. <i>Green Energy and Technology</i> , 2015, , 193-212.	0.6	0
72	Net Energy Production of H ₂ in Anaerobic Digestion. <i>Green Energy and Technology</i> , 2015, , 85-105.	0.6	0

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73	Valorization of Liquid End-Residues of H2 Production by Microbial Fuel Cell. Green Energy and Technology, 2015, , 137-159.	0.6	0
74	Electrical energy network efficiencies evaluation as milestones for smart grids development: Italy's case study. , 2017, , .		0
75	CONTINUOUS EXTRACTION LOOP REACTOR (CELR): ALCOHOLIC FERMENTATION BY FLUIDIZED ENTRAPPED BIOMASS. , 1988, , 1891-1896.		0