

Enrique Roca

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

2,136
citations

218677

26
h-index

233421

45
g-index

54
all docs

54
docs citations

54
times ranked

2645
citing authors

#	ARTICLE	IF	CITATIONS
1	Source identification of heavy metals in pastureland by multivariate analysis in NW Spain. <i>Journal of Hazardous Materials</i> , 2009, 165, 1008-1015.	12.4	375
2	Review of combined approaches and multi-criteria analysis for corporate environmental evaluation. <i>Journal of Cleaner Production</i> , 2013, 39, 355-371.	9.3	155
3	Review of corporate environmental indicators. <i>Journal of Cleaner Production</i> , 2011, 19, 1687-1699.	9.3	147
4	Ranking municipal solid waste treatment alternatives based on ecological footprint and multi-criteria analysis. <i>Ecological Indicators</i> , 2013, 25, 77-84.	6.3	112
5	Hazardous organic chemicals in rubber recycled tire playgrounds and pavers. <i>Chemosphere</i> , 2013, 90, 423-431.	8.2	110
6	Inventory of heavy metal content in organic waste applied as fertilizer in agriculture: evaluating the risk of transfer into the food chain. <i>Environmental Science and Pollution Research</i> , 2011, 18, 918-939.	5.3	90
7	Granulation in high-load denitrifying upflow sludge bed (USB) pulsed reactors. <i>Water Research</i> , 2006, 40, 871-880.	11.3	88
8	An approach for the application of the Ecological Footprint as environmental indicator in the textile sector. <i>Journal of Hazardous Materials</i> , 2008, 156, 478-487.	12.4	72
9	Environmental assessment of the integrated municipal solid waste management system in Porto (Portugal). <i>Journal of Cleaner Production</i> , 2014, 70, 183-193.	9.3	63
10	Rule-based diagnosis and supervision of a pilot-scale wastewater treatment plant using fuzzy logic techniques. <i>Expert Systems With Applications</i> , 2002, 22, 11-20.	7.6	55
11	Xylitol production by immobilized recombinant <i>Saccharomyces cerevisiae</i> in a continuous packed-bed bioreactor. , 1996, 51, 317-326.		50
12	Diagnosis of acidification states in an anaerobic wastewater treatment plant using a fuzzy-based expert system. <i>Control Engineering Practice</i> , 2004, 12, 59-64.	5.5	46
13	An expert system for monitoring and diagnosis of anaerobic wastewater treatment plants. <i>Water Research</i> , 2002, 36, 2656-2666.	11.3	43
14	Assessing environmental sustainability of particleboard production process by ecological footprint. <i>Journal of Cleaner Production</i> , 2013, 52, 301-308.	9.3	40
15	Application of fuzzy logic for the integration of environmental criteria in ecodesign. <i>Expert Systems With Applications</i> , 2012, 39, 4427-4431.	7.6	39
16	Integrated pollution prevention and control for heavy ceramic industry in Galicia (NW Spain). <i>Journal of Hazardous Materials</i> , 2007, 141, 680-692.	12.4	36
17	Multi-objective cascade controller for an anaerobic digester. <i>Process Biochemistry</i> , 2011, 46, 900-909.	3.7	35
18	Fuzzy-Based Control of an Anaerobic Reactor Treating Wastewaters Containing Ethanol and Carbohydrates. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 6707-6715.	3.7	34

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19	Sustainable and safe design of footwear integrating ecological footprint and risk criteria. <i>Journal of Hazardous Materials</i> , 2011, 192, 1876-1881.	12.4	34
20	Selection of variables for on-line monitoring, diagnosis, and control of anaerobic digestion processes. <i>Water Science and Technology</i> , 2009, 60, 615-622.	2.5	31
21	Reducing the Anaerobic Digestion Model No. 1 for its application to an industrial wastewater treatment plant treating winery effluent wastewater. <i>Bioresource Technology</i> , 2013, 132, 244-253.	9.6	31
22	Application of cattle manure as fertilizer in pastureland: Estimating the incremental risk due to metal accumulation employing a multicompartment model. <i>Environment International</i> , 2006, 32, 724-732.	10.0	30
23	Pilot-Scale Validation of a New Sensor for On-Line Analysis of Volatile Fatty Acids and Alkalinity in Anaerobic Wastewater Treatment Plants. <i>Environmental Engineering Science</i> , 2009, 26, 641-649.	1.6	30
24	Multicorrelation models and uptake factors to estimate extractable metal concentrations from soil and metal in plants in pasturelands fertilized with manure. <i>Environmental Pollution</i> , 2012, 166, 17-22.	7.5	30
25	Use of cheese whey as a substrate to produce manganese peroxidase by <i>Bjerkandera sp BOS55</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , 1999, 23, 86-90.	3.0	28
26	Xylitol Production from Wood Hydrolyzates by Entrapped <i>Debaryomyces hansenii</i> and <i>Candida guilliermondii</i> Cells. <i>Applied Biochemistry and Biotechnology</i> , 1999, 81, 119-130.	2.9	28
27	Selection of variables using factorial discriminant analysis for the state identification of an anaerobic UASB-UAF hybrid pilot plant, fed with winery effluents. <i>Water Science and Technology</i> , 2007, 56, 139-145.	2.5	26
28	Development of a methodology to assess the footprint of wastes. <i>Journal of Hazardous Materials</i> , 2010, 180, 264-273.	12.4	23
29	Ethanol fermentation by immobilized <i>Saccharomyces cerevisiae</i> in a semipilot pulsing packed-bed bioreactor. <i>Enzyme and Microbial Technology</i> , 1996, 19, 132-139.	3.2	22
30	New insights on ecological footprinting as environmental indicator for production processes. <i>Ecological Indicators</i> , 2012, 16, 84-90.	6.3	22
31	Integrated pollution prevention and control in the surface treatment industries in Galicia (NW) Tj ETQq1 1 0.784314 rgBT /Overlock 1	4.1	21
32	Characterization of anaerobic granular sludge developed in UASB reactors that treat ethanol, carbohydrates and hydrolyzed protein based wastewaters. <i>Water Science and Technology</i> , 2008, 57, 837-842.	2.5	20
33	Characterization, management and treatment of wastewater from white wine production. <i>Water Science and Technology</i> , 2007, 56, 121-128.	2.5	19
34	Combined application of energy and material flow analysis and ecological footprint for the environmental evaluation of a tailoring factory. <i>Journal of Hazardous Materials</i> , 2012, 237-238, 231-239.	12.4	18
35	Population Dynamics of a Continuous Fermentation of Recombinant <i>Saccharomyces cerevisiae</i> Using Flow Cytometry. <i>Biotechnology Progress</i> , 2001, 17, 951-957.	2.6	17
36	Identification of NO _x and Ozone Episodes and Estimation of Ozone by Statistical Analysis. <i>Water, Air, and Soil Pollution</i> , 2009, 198, 95-110.	2.4	17

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37	A risk-based decision tool for the management of organic waste in agriculture and farming activities (FARMERS). <i>Journal of Hazardous Materials</i> , 2011, 185, 792-800.	12.4	16
38	Determination of the adequate minimum model complexity required in anaerobic bioprocesses using experimental data. <i>Journal of Chemical Technology and Biotechnology</i> , 2008, 83, 1694-1702.	3.2	13
39	A decision support system based on fuzzy reasoning and AHP for the ecodesign of products: Application to footwear as case study. <i>Applied Soft Computing Journal</i> , 2015, 26, 224-234.	7.2	13
40	Estimating Risk During Showering Exposure to VOCs of Workers in a Metal-Degreasing Facility. <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2007, 70, 627-637.	2.3	12
41	Kinetic modelling of the sequential production of lactic acid and xylitol from vine trimming wastes. <i>Bioprocess and Biosystems Engineering</i> , 2011, 34, 869-878.	3.4	10
42	Integration of equalisation tanks within control strategies for anaerobic reactors. Validation based on ADM1 simulations. <i>Water Science and Technology</i> , 2008, 57, 747-752.	2.5	7
43	Continuous ethanolic fermentation by <i>Saccharomyces cerevisiae</i> immobilised in Ca-alginate beads hardened with Al ³⁺ . <i>Biotechnology Letters</i> , 1995, 9, 815-820.	0.5	6
44	Effect of Heavy Metals on the Degradative Activity by Wood-Rotting Fungi. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2002, 68, 752-759.	2.7	6
45	Enhanced Start-Up of Upflow Anaerobic Filters by Pulsation. <i>Journal of Environmental Engineering, ASCE</i> , 2007, 133, 186-190.	1.4	5
46	Control of Re-startup of Anaerobic USBF Reactors after Short Stops. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 4748-4755.	3.7	4
47	Anaerobic digestion process parameter identification and marginal confidence intervals by multivariate steady state analysis and bootstrap. <i>Computer Aided Chemical Engineering</i> , 2005, 20, 1327-1332.	0.5	3
48	A simple flow meter for bioreactors applicable to oscillating feed systems. <i>Biotechnology Letters</i> , 1994, 8, 793-796.	0.5	2
49	Plasmid stability in recombinant <i>Saccharomyces cerevisiae</i> expressing the EXG1 gene in free and immobilized cultures. <i>Progress in Biotechnology</i> , 1998, 15, 611-618.	0.2	1
50	Explaining the enhanced performance of pulsed bioreactors by mechanistic modeling. <i>AIChE Journal</i> , 2008, 54, 1377-1387.	3.6	1
51	Reduction of the Anaerobic Digestion Model No1 for an industrial wastewater treatment plant by principal component analysis. , 2009, , .		0
52	Reply to comment on "Multicorrelation models and uptake factors to estimate extractable metal concentrations from soil and metal in plants in pasturelands fertilized with manure" by Lopes et al. (2012). <i>Environmental Pollution</i> , 2012, 169, 144-145.	7.5	0
53	Reply to response regarding "Multicorrelation models and uptake factors" to estimate extractable metal concentrations from soil and metal in plants in pasturelands fertilized with manure" by Lopes et al. (2012). <i>Environmental Pollution</i> , 2012, 169, 147.	7.5	0
54	PULSING BIOREACTORS. , 0, , .		0