Enrique Roca

List of Publications by Year
in descending order

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	A decision support system based on fuzzy reasoning and AHP–FPP for the ecodesign of products: Application to footwear as case study. Applied Soft Computing Journal, 2015, 26, 224-234.	7.2	13
2	Environmental assessment of the integrated municipal solid waste management system in Porto (Portugal). Journal of Cleaner Production, 2014, 70, 183-193.	9.3	63
3	Hazardous organic chemicals in rubber recycled tire playgrounds and pavers. Chemosphere, 2013, 90, 423-431.	8.2	110
4	Reducing the Anaerobic Digestion Model No. 1 for its application to an industrial wastewater treatment plant treating winery effluent wastewater. Bioresource Technology, 2013, 132, 244-253.	9.6	31
5	Assessing environmental sustainability of particleboard production process by ecological footprint. Journal of Cleaner Production, 2013, 52, 301-308.	9.3	40
6	Ranking municipal solid waste treatment alternatives based on ecological footprint and multi-criteria analysis. Ecological Indicators, 2013, 25, 77-84.	6.3	112
7	Review of combined approaches and multi-criteria analysis for corporate environmental evaluation. Journal of Cleaner Production, 2013, 39, 355-371.	9.3	155
8	New insights on ecological footprinting as environmental indicator for production processes. Ecological Indicators, 2012, 16, 84-90.	6.3	22
9	Combined application of energy and material flow analysis and ecological footprint for the environmental evaluation of a tailoring factory. Journal of Hazardous Materials, 2012, 237-238, 231-239.	12.4	18
10	Multicorrelation models and uptake factors to estimate extractable metal concentrations from soil and metal in plants in pasturelands fertilized with manure. Environmental Pollution, 2012, 166, 17-22.	7.5	30
11	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 Âal. (2012). Environmental Pollution, 2012, 169, 144-145.	7.5	0
12	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 Âal. (2012). Environmental Pollution, 2012, 169, 147.	7.5	0
13	Application of fuzzy logic for the integration of environmental criteria in ecodesign. Expert Systems With Applications, 2012, 39, 4427-4431.	7.6	39
14	Sustainable and safe design of footwear integrating ecological footprint and risk criteria. Journal of Hazardous Materials, 2011, 192, 1876-1881.	12.4	34
15	Review of corporate environmental indicators. Journal of Cleaner Production, 2011, 19, 1687-1699.	9.3	147
16	Kinetic modelling of the sequential production of lactic acid and xylitol from vine trimming wastes. Bioprocess and Biosystems Engineering, 2011, 34, 869-878.	3.4	10
17	Multi-objective cascade controller for an anaerobic digester. Process Biochemistry, 2011, 46, 900-909.	3.7	35
18	Inventory of heavy metal content in organic waste applied as fertilizer in agriculture: evaluating the risk of transfer into the food chain. Environmental Science and Pollution Research, 2011, 18, 918-939.	5.3	90

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19	A risk-based decision tool for the management of organic waste in agriculture and farming activities (FARMERS). Journal of Hazardous Materials, 2011, 185, 792-800.	12.4	16
20	Development of a methodology to assess the footprint of wastes. Journal of Hazardous Materials, 2010, 180, 264-273.	12.4	23
21	Control of Re-startup of Anaerobic USBF Reactors after Short Stops. Industrial & Engineering Chemistry Research, 2010, 49, 4748-4755.	3.7	4
22	Reduction of the Anaerobic Digestion Model No1 for an industrial wastewater treatment plant by principal component analysis. , 2009, , .		0
23	Identification of NOx and Ozone Episodes and Estimation of Ozone by Statistical Analysis. Water, Air, and Soil Pollution, 2009, 198, 95-110.	2.4	17
24	Source identification of heavy metals in pastureland by multivariate analysis in NW Spain. Journal of Hazardous Materials, 2009, 165, 1008-1015.	12.4	375
25	Pilot-Scale Validation of a New Sensor for On-Line Analysis of Volatile Fatty Acids and Alkalinity in Anaerobic Wastewater Treatment Plants. Environmental Engineering Science, 2009, 26, 641-649.	1.6	30
26	Selection of variables for on-line monitoring, diagnosis, and control of anaerobic digestion processes. Water Science and Technology, 2009, 60, 615-622.	2.5	31
27	Integrated pollution prevention and control in the surface treatment industries in Galicia (NW) Tj ETQq1 1 0.784314 rgBT /Overlock 1	4.1	21
28	Determination of the adequate minimum model complexity required in anaerobic bioprocesses using experimental data. Journal of Chemical Technology and Biotechnology, 2008, 83, 1694-1702.	3.2	13
29	Explaining the enhanced performance of pulsed bioreactors by mechanistic modeling. AICHE Journal, 2008, 54, 1377-1387.	3.6	1
30	An approach for the application of the Ecological Footprint as environmental indicator in the textile sector. Journal of Hazardous Materials, 2008, 156, 478-487.	12.4	72
31	Characterization of anaerobic granular sludge developed in UASB reactors that treat ethanol, carbohydrates and hydrolyzed protein based wastewaters. Water Science and Technology, 2008, 57, 837-842.	2.5	20
32	Integration of equalisation tanks within control strategies for anaerobic reactors. Validation based on ADM1 simulations.. Water Science and Technology, 2008, 57, 747-752.	2.5	7
33	Estimating Risk During Showering Exposure to VOCs of Workers in a Metal-Degreasing Facility. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2007, 70, 627-637.	2.3	12
34	Enhanced Start-Up of Upflow Anaerobic Filters by Pulsation. Journal of Environmental Engineering, ASCE, 2007, 133, 186-190.	1.4	5
35	Characterization, management and treatment of wastewater from white wine production. Water Science and Technology, 2007, 56, 121-128.	2.5	19
36	Selection of variables using factorial discriminant analysis for the state identification of an anaerobic UASBâ€"UAF hybrid pilot plant, fed with winery effluents. Water Science and Technology, 2007, 56, 139-145.	2.5	26

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37	Fuzzy-Based Control of an Anaerobic Reactor Treating Wastewaters Containing Ethanol and Carbohydrates. Industrial & Engineering Chemistry Research, 2007, 46, 6707-6715.	3.7	34
38	Integrated pollution prevention and control for heavy ceramic industry in Galicia (NW Spain). Journal of Hazardous Materials, 2007, 141, 680-692.	12.4	36
39	Application of cattle manure as fertilizer in pastureland: Estimating the incremental risk due to metal accumulation employing a multicompartment model. Environment International, 2006, 32, 724-732.	10.0	30
40	Granulation in high-load denitrifying upflow sludge bed (USB) pulsed reactors. Water Research, 2006, 40, 871-880.	11.3	88
41	Anaerobic digestion process parameter identification and marginal confidence intervals by multivariate steady state analysis and bootstrap. Computer Aided Chemical Engineering, 2005, 20, 1327-1332.	0.5	3
42	Diagnosis of acidification states in an anaerobic wastewater treatment plant using a fuzzy-based expert system. Control Engineering Practice, 2004, 12, 59-64.	5.5	46
43	An expert system for monitoring and diagnosis of anaerobic wastewater treatment plants. Water Research, 2002, 36, 2656-2666.	11.3	43
44	Effect of Heavy Metals on the Degradative Activity by Wood-Rotting Fungi. Bulletin of Environmental Contamination and Toxicology, 2002, 68, 752-759.	2.7	6
45	Rule-based diagnosis and supervision of a pilot-scale wastewater treatment plant using fuzzy logic techniques. Expert Systems With Applications, 2002, 22, 11-20.	7.6	55
46	Population Dynamics of a Continuous Fermentation of Recombinant Saccharomyces cerevisiae Using Flow Cytometry. Biotechnology Progress, 2001, 17, 951-957.	2.6	17
47	Use of cheese whey as a substrate to produce manganese peroxidase by Bjerkandera sp BOS55. Journal of Industrial Microbiology and Biotechnology, 1999, 23, 86-90.	3.0	28
48	Xylitol Production from Wood Hydrolyzates by Entrapped Debaryomyces hansenii and Candida guilliermondii Cells. Applied Biochemistry and Biotechnology, 1999, 81, 119-130.	2.9	28
49	Plasmid stability in recombinant Saccharomyces cerevisiae expressing the EXG1 gene in free and immobilized cultures. Progress in Biotechnology, 1998, 15, 611-618.	0.2	1
50	Xylitol production by immobilized recombinantSaccharomyces cerevisiae in a continuous packed-bed bioreactor. , 1996, 51, 317-326.		50
51	Ethanolic fermentation by immobilized Saccharomyces cerevisiae in a semipilot pulsing packed-bed bioreactor. Enzyme and Microbial Technology, 1996, 19, 132-139.	3.2	22
52	Continuous ethanolic fermentation by Saccharomyces cerevisiae immobilised in Ca-alginate beads hardened with Al3+. Biotechnology Letters, 1995, 9, 815-820.	0.5	6
53	A simple flow meter for bioreactors applicable to oscillating feed systems. Biotechnology Letters, 1994, 8, 793-796.	0.5	2
54	PULSING BIOREACTORS. , 0, , .		0