

MÃ³nica Calero

List of Publications by Year in descending order

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94
papers

3,738
citations

117571

34
h-index

138417

58
g-index

94
all docs

94
docs citations

94
times ranked

3680
citing authors

#	ARTICLE	IF	CITATIONS
1	Recovery, separation and production of fuel, plastic and aluminum from the Tetra PAK waste to hydrothermal and pyrolysis processes. Waste Management, 2022, 137, 179-189.	3.7	17
2	Characterization of liquid fraction obtained from pyrolysis of post-consumer mixed plastic waste: A comparing between measured and calculated parameters. Chemical Engineering Research and Design, 2022, 159, 1053-1063.	2.7	9
3	Characterization of the Different Oils Obtained through the Catalytic In Situ Pyrolysis of Polyethylene Film from Municipal Solid Waste. Applied Sciences (Switzerland), 2022, 12, 4043.	1.3	2
4	Effect of different pre-treatments and addition of plastic on the properties of bio-oil obtained by pyrolysis of greenhouse crop residue. Journal of Analytical and Applied Pyrolysis, 2021, 153, 104977.	2.6	7
5	Microplastics and fibers from three areas under different anthropogenic pressures in Douro river. Science of the Total Environment, 2021, 776, 145999.	3.9	37
6	Olive-Oil Waste for the Removal of Heavy Metals from Wastewater. Environmental Chemistry for A Sustainable World, 2021, , 51-79.	0.3	0
7	Effects of distance to the sea and geomorphological characteristics on the quantity and distribution of microplastics in beach sediments of Granada (Spain). Science of the Total Environment, 2020, 746, 142023.	3.9	33
8	Liquid Hot Water Pretreatment and Enzymatic Hydrolysis as a Valorization Route of Italian Green Pepper Waste to Delivery Free Sugars. Foods, 2020, 9, 1640.	1.9	13
9	Comparison Between Performance of Fluorite Flotation Under Different Depressants Reagents in Two Pieces of Laboratory Equipment. Applied Sciences (Switzerland), 2020, 10, 5667.	1.3	4
10	Testing of New Collectors for Concentration of Fluorite by Flotation in Pneumatic (Modified) Tj ETQq0 0 0 rgBT /Overlock 10 Jf 50 382 T	0.8	4
11	Playing a Board Game to Learn Bioenergy and Biofuels Topics in an Interactive, Engaging Context. Journal of Chemical Education, 2020, 97, 1375-1380.	1.1	15
12	Microplastics as Vectors of Chromium and Lead during Dynamic Simulation of the Human Gastrointestinal Tract. Sustainability, 2020, 12, 4792.	1.6	28
13	The relevance of interaction of chemicals/pollutants and microplastic samples as route for transporting contaminants. Chemical Engineering Research and Design, 2020, 138, 312-323.	2.7	35
14	Hydrolyzed olive cake as novel adsorbent for copper removal from fertilizer industry wastewater. Journal of Cleaner Production, 2020, 268, 121935.	4.6	22
15	Production of an Alternative Fuel by Pyrolysis of Plastic Wastes Mixtures. Energy & Fuels, 2020, 34, 1781-1790.	2.5	53
16	Thermal analysis of olive tree pruning and the by-products obtained by its gasification and pyrolysis: The effect of some heavy metals on their devolatilization behavior. Journal of Energy Chemistry, 2019, 32, 105-117.	7.1	9
17	The potential of microplastics as carriers of metals. Environmental Pollution, 2019, 255, 113363.	3.7	367
18	Column Leaching Tests to Valorize a Solid Waste from the Decommissioning of Coal-Fired Power Plants. Energies, 2019, 12, 1684.	1.6	0

#	ARTICLE	IF	CITATIONS
19	Optimization of the pyrolysis process of a plastic waste to obtain a liquid fuel using different mathematical models. <i>Energy Conversion and Management</i> , 2019, 188, 19-26.	4.4	59
20	Study of the kinetic parameters of thermal and oxidative degradation of various residual materials. <i>Biomass and Bioenergy</i> , 2019, 124, 13-24.	2.9	6
21	Recovering Metals from Aqueous Solutions by Biosorption onto Hydrolyzed Olive Cake. <i>Water (Switzerland)</i> , 2019, 11, 2519.	1.2	11
22	Physical-chemical characterization of microplastics present in some exfoliating products from Spain. <i>Marine Pollution Bulletin</i> , 2019, 139, 91-99.	2.3	75
23	The role of temperature on slow pyrolysis of olive cake for the production of solid fuels and adsorbents. <i>Chemical Engineering Research and Design</i> , 2019, 121, 209-220.	2.7	29
24	Influence of nickel during the thermal degradation of pine cone shell. Study of the environmental implications. <i>Journal of Cleaner Production</i> , 2018, 183, 403-414.	4.6	6
25	Kinetic study of thermal degradation of olive cake based on a scheme of fractionation and its behavior impregnated of metals. <i>Bioresource Technology</i> , 2018, 261, 104-116.	4.8	15
26	Neural fuzzy modelization of copper removal from water by biosorption in fixed-bed columns using olive stone and pinion shell. <i>Bioresource Technology</i> , 2018, 252, 100-109.	4.8	38
27	Pyrolysis kinetics of the lead-impregnated olive stone by non-isothermal thermogravimetry. <i>Chemical Engineering Research and Design</i> , 2018, 113, 448-458.	2.7	22
28	Kinetic analysis of pyrolysis and combustion of the olive tree pruning by chemical fractionation. <i>Bioresource Technology</i> , 2018, 249, 557-566.	4.8	26
29	Optimization of the sugar hydrothermal extraction process from olive cake using neuro-fuzzy models. <i>Bioresource Technology</i> , 2018, 268, 81-90.	4.8	10
30	Removal of heavy metals from acid mining effluents by hydrolyzed olive cake. <i>Bioresource Technology</i> , 2018, 268, 169-175.	4.8	30
31	Reaction schemes for estimating kinetic parameters of thermal decomposition of native and metal-loaded almond shell. <i>Chemical Engineering Research and Design</i> , 2018, 118, 234-244.	2.7	12
32	BINARY BIOSORPTION OF Cu(II)-Pb(II) MIXTURES ONTO PINE NUTS SHELL IN BATCH AND PACKED BED SYSTEMS. <i>Environmental Engineering and Management Journal</i> , 2018, 17, 1349-1361.	0.2	1
33	CHARACTERIZATION OF PLASTIC MATERIALS PRESENT IN MUNICIPAL SOLID WASTE: PRELIMINARY STUDY FOR THEIR MECHANICAL RECYCLING. <i>Detritus</i> , 2018, In Press, 1.	0.4	7
34	A novel methodology to characterize and to valorize a waste by a fractionation technology. <i>Chemical Engineering Research and Design</i> , 2017, 109, 140-150.	2.7	10
35	Kinetics of thermal decomposition of some biomasses in an inert environment. An investigation of the effect of lead loaded by biosorption. <i>Waste Management</i> , 2017, 70, 101-113.	3.7	19
36	Effect of torrefaction conditions on greenhouse crop residue: Optimization of conditions to upgrade solid characteristics. <i>Bioresource Technology</i> , 2017, 244, 741-749.	4.8	29

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37	Kinetic modelling of torrefaction of olive tree pruning. Applied Thermal Engineering, 2017, 113, 1410-1418.	3.0	61
38	Study of the catalytic effect of nickel in the thermal decomposition of olive tree pruning via thermogravimetric analysis. Renewable Energy, 2017, 103, 825-835.	4.3	8
39	The scale-up of Cr ³⁺ biosorption onto olive stone in a fixed bed column. Desalination and Water Treatment, 2016, 57, 25140-25152.	1.0	12
40	Kinetic study of the pyrolysis of pine cone shell through non-isothermal thermogravimetry: Effect of heavy metals incorporated by biosorption. Renewable Energy, 2016, 96, 613-624.	4.3	58
41	Combustion of a Pb(II)-loaded olive tree pruning used as biosorbent. Journal of Hazardous Materials, 2016, 308, 285-293.	6.5	27
42	Binary biosorption of copper and lead onto pine cone shell in batch reactors and in fixed bed columns. International Journal of Mineral Processing, 2016, 148, 72-82.	2.6	66
43	Simultaneous biosorption of methylene blue and trivalent chromium onto olive stone. Desalination and Water Treatment, 2016, 57, 17400-17410.	1.0	10
44	Physic-Chemical Characterization of a Waste from Olive Industry. Key Engineering Materials, 2015, 663, 140-147.	0.4	0
45	Optimization of the use of a biosorbent to remove heavy metals: Regeneration and reuse of exhausted biosorbent. Journal of the Taiwan Institute of Chemical Engineers, 2015, 51, 109-118.	2.7	30
46	Complete use of an agricultural waste: Application of untreated and chemically treated olive stone as biosorbent of lead ions and reuse as fuel. Chemical Engineering Research and Design, 2015, 104, 740-751.	2.7	10
47	Physico-chemical characterization of pine cone shell and its use as biosorbent and fuel. Bioresource Technology, 2015, 196, 406-412.	4.8	47
48	Comparative study of isotherm parameters of lead biosorption by two wastes of olive-oil production. Water Science and Technology, 2015, 72, 711-720.	1.2	11
49	Copper biosorption in the presence of lead onto olive stone and pine bark in batch and continuous systems. Environmental Progress and Sustainable Energy, 2014, 33, 192-204.	1.3	21
50	Biosorption of Cr ⁶⁺ from aqueous solution by sugarcane bagasse. Desalination and Water Treatment, 2014, 52, 5912-5922.	1.0	27
51	New treatment of real electroplating wastewater containing heavy metal ions by adsorption onto olive stone. Journal of Cleaner Production, 2014, 81, 120-129.	4.6	123
52	Study of kinetics in the biosorption of lead onto native and chemically treated olive stone. Journal of Industrial and Engineering Chemistry, 2014, 20, 2754-2760.	2.9	40
53	Characterization and modeling of pyrolysis of the two-phase olive mill solid waste. Fuel Processing Technology, 2014, 126, 104-111.	3.7	45
54	Development and Characterization of Biosorbents To Remove Heavy Metals from Aqueous Solutions by Chemical Treatment of Olive Stone. Industrial & Engineering Chemistry Research, 2013, 52, 10809-10819.	1.8	47

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55	Effect of lead in biosorption of copper by almond shell. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2013, 44, 466-473.	2.7	63
56	Characterization of chemically modified biosorbents from olive tree pruning for the biosorption of lead. <i>Ecological Engineering</i> , 2013, 58, 344-354.	1.6	84
57	Biosorption of Cu ²⁺ in a packed bed column by almond shell: optimization of process variables. <i>Desalination and Water Treatment</i> , 2013, 51, 1954-1965.	1.0	11
58	Chemical activation of olive tree pruning to remove lead(II) in batch system: Factorial design for process optimization. <i>Biomass and Bioenergy</i> , 2013, 58, 322-332.	2.9	23
59	Analysis of the kinetics of lead biosorption using native and chemically treated olive tree pruning. <i>Ecological Engineering</i> , 2013, 58, 278-285.	1.6	54
60	Evaluation of biosorption of copper ions onto pinion shell. <i>Desalination and Water Treatment</i> , 2013, 51, 2411-2422.	1.0	7
61	Removal of nickel (II) ions from aqueous solutions by biosorption on sugarcane bagasse. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2012, 43, 275-281.	2.7	164
62	Copper biosorption by pine cone shell and thermal decomposition study of the exhausted biosorbent. <i>Journal of Industrial and Engineering Chemistry</i> , 2012, 18, 1741-1750.	2.9	62
63	Biosorption of hexavalent chromium from aqueous solution by <i>Sargassum muticum</i> brown alga. Application of statistical design for process optimization. <i>Chemical Engineering Journal</i> , 2012, 183, 68-76.	6.6	96
64	Multiple biosorption-desorption cycles in a fixed-bed column for Pb(II) removal by acid-treated olive stone. <i>Journal of Industrial and Engineering Chemistry</i> , 2012, 18, 1006-1012.	2.9	65
65	Kinetic Modeling of the Biosorption of Lead(II) from Aqueous Solutions by Solid Waste Resulting from the Olive Oil Production. <i>Journal of Chemical & Engineering Data</i> , 2011, 56, 3053-3060.	1.0	19
66	Life cycle assessment on producing a heavy metals biosorbent from sugarcane bagasse. <i>Desalination and Water Treatment</i> , 2011, 30, 272-277.	1.0	10
67	Evaluation and comparison of the biosorption process of copper ions onto olive stone and pine bark. <i>Journal of Industrial and Engineering Chemistry</i> , 2011, 17, 824-833.	2.9	58
68	Factorial experimental design for optimizing the removal conditions of lead ions from aqueous solutions by three wastes of the olive-oil production. <i>Desalination</i> , 2011, 278, 132-140.	4.0	32
69	Batch and continuous packed column studies of chromium (III) biosorption by olive stone. <i>Environmental Progress and Sustainable Energy</i> , 2011, 30, 576-585.	1.3	26
70	Batch biosorption of lead(II) from aqueous solutions by olive tree pruning waste: Equilibrium, kinetics and thermodynamic study. <i>Chemical Engineering Journal</i> , 2011, 168, 170-177.	6.6	136
71	Potentiometric titrations for the characterization of functional groups on solid wastes of the olive oil production. <i>Environmental Progress and Sustainable Energy</i> , 2010, 29, 249-258.	1.3	2
72	Equilibrium biosorption of lead(II) from aqueous solutions by solid waste from olive-oil production. <i>Chemical Engineering Journal</i> , 2010, 160, 615-622.	6.6	89

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73	Modification of the sorptive characteristics of sugarcane bagasse for removing lead from aqueous solutions. <i>Desalination</i> , 2010, 256, 58-63.	4.0	97
74	Sorption of Cr (VI) onto Olive Stone in a Packed Bed Column: Prediction of Kinetic Parameters and Breakthrough Curves. <i>Journal of Environmental Engineering, ASCE</i> , 2010, 136, 1389-1397.	0.7	22
75	Effect of the Acid Treatment of Olive Stone on the Biosorption of Lead in a Packed-Bed Column. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 12587-12595.	1.8	38
76	Biosorption kinetics of Cd (II), Cr (III) and Pb (II) in aqueous solutions by olive stone. <i>Brazilian Journal of Chemical Engineering</i> , 2009, 26, 265-273.	0.7	49
77	Effect of the Presence of Chromium (III) on the Removal of Lead (II) from Aqueous Solutions by Agricultural Wastes. <i>Journal of Environmental Engineering, ASCE</i> , 2009, 135, 1348-1356.	0.7	13
78	Study of Cr (III) biosorption in a fixed-bed column. <i>Journal of Hazardous Materials</i> , 2009, 171, 886-893.	6.5	211
79	The effect of pH on the biosorption of Cr (III) and Cr (VI) with olive stone. <i>Chemical Engineering Journal</i> , 2009, 148, 473-479.	6.6	142
80	Surface chemistry evaluation of some solid wastes from olive-oil industry used for lead removal from aqueous solutions. <i>Biochemical Engineering Journal</i> , 2009, 44, 151-159.	1.8	80
81	Contact Angle and Surface Tension in the Celestite + Alkylic Collector Aqueous Solutions + Air System. <i>Journal of Chemical & Engineering Data</i> , 2009, 54, 314-317.	1.0	1
82	Comparative study of the biosorption of cadmium(II), chromium(III), and lead(II) by olive stone. <i>Environmental Progress</i> , 2008, 27, 469-478.	0.8	35
83	Chemical treatment of olive pomace: Effect on acid-basic properties and metal biosorption capacity. <i>Journal of Hazardous Materials</i> , 2008, 156, 448-457.	6.5	69
84	Equilibrium modelling of Cr (VI) biosorption by olive stone. , 2008, , .		3
85	Surface Tension for Aqueous Solutions of Sodium 1-Dodecanesulfonate. <i>Journal of Chemical & Engineering Data</i> , 2006, 51, 1216-1219.	1.0	9
86	Removal of cadmium ions with olive stones: the effect of some parameters. <i>Process Biochemistry</i> , 2005, 40, 2649-2654.	1.8	112
87	Kinetic considerations in the flotation of phosphate ore. <i>Advanced Powder Technology</i> , 2005, 16, 347-361.	2.0	12
88	Flotation of low-grade phosphate ore. <i>Advanced Powder Technology</i> , 2004, 15, 421-433.	2.0	24
89	Separation of the Soluble Salts KNO ₃ and NH ₄ Cl by Flotation with Oleic Acid. <i>Chemical Engineering Research and Design</i> , 2003, 81, 963-970.	2.7	3
90	Froth flotation: kinetic models based on chemical analogy. <i>Chemical Engineering and Processing: Process Intensification</i> , 2001, 40, 269-275.	1.8	48

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91	Interaction probabilities in a four components aqueous two-phase system: polymer+salt+water+protein. <i>Chemical Engineering Science</i> , 2001, 56, 4451-4456.	1.9	2
92	The effect of the degree of grinding on the flotation of celestite ore. <i>Advanced Powder Technology</i> , 2001, 12, 481-491.	2.0	8
93	The effect of pH modifier on the flotation of celestite with sodium oleate and quebracho. <i>Chemical Engineering Science</i> , 1996, 51, 4289-4294.	1.9	11
94	Influence of quebracho and sodium silicate on flotation of celestite and calcite with sodium oleate. <i>International Journal of Mineral Processing</i> , 1993, 37, 283-298.	2.6	45