

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	The potential of microplastics as carriers of metals. <i>Environmental Pollution</i> , 2019, 255, 113363.	3.7	367
2	Study of Cr (III) biosorption in a fixed-bed column. <i>Journal of Hazardous Materials</i> , 2009, 171, 886-893.	6.5	211
3	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
4	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
5	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
6	New treatment of real electroplating wastewater containing heavy metal ions by adsorption onto olive stone. <i>Journal of Cleaner Production</i> , 2014, 81, 120-129.	4.6	123
7	Removal of cadmium ions with olive stones: the effect of some parameters. <i>Process Biochemistry</i> , 2005, 40, 2649-2654.	1.8	112
8	Modification of the sorptive characteristics of sugarcane bagasse for removing lead from aqueous solutions. <i>Desalination</i> , 2010, 256, 58-63.	4.0	97
9	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
10	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
11	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
12	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
13	Physical-chemical characterization of microplastics present in some exfoliating products from Spain. <i>Marine Pollution Bulletin</i> , 2019, 139, 91-99.	2.3	75
14	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
15	Binary biosorption of copper and lead onto pine cone shell in batch reactors and in fixed bed columns. <i>International Journal of Mineral Processing</i> , 2016, 148, 72-82.	2.6	66
16	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
17	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
18	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

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19	Kinetic modelling of torrefaction of olive tree pruning. <i>Applied Thermal Engineering</i> , 2017, 113, 1410-1418.	3.0	61
20	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
21	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
22	Kinetic study of the pyrolysis of pine cone shell through non-isothermal thermogravimetry: Effect of heavy metals incorporated by biosorption. <i>Renewable Energy</i> , 2016, 96, 613-624.	4.3	58
23	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
24	Production of an Alternative Fuel by Pyrolysis of Plastic Wastes Mixtures. <i>Energy & Fuels</i> , 2020, 34, 1781-1790.	2.5	53
25	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
26	Froth flotation: kinetic models based on chemical analogy. <i>Chemical Engineering and Processing: Process Intensification</i> , 2001, 40, 269-275.	1.8	48
27	Development and Characterization of Biosorbents To Remove Heavy Metals from Aqueous Solutions by Chemical Treatment of Olive Stone. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 10809-10819.	1.8	47
28	Physico-chemical characterization of pine cone shell and its use as biosorbent and fuel. <i>Bioresource Technology</i> , 2015, 196, 406-412.	4.8	47
29	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
30	Characterization and modeling of pyrolysis of the two-phase olive mill solid waste. <i>Fuel Processing Technology</i> , 2014, 126, 104-111.	3.7	45
31	Study of kinetics in the biosorption of lead onto native and chemically treated olive stone. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 2754-2760.	2.9	40
32	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
33	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
34	Microplastics and fibers from three areas under different anthropogenic pressures in Douro river. <i>Science of the Total Environment</i> , 2021, 776, 145999.	3.9	37
35	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
36	The relevance of interaction of chemicals/pollutants and microplastic samples as route for transporting contaminants. <i>Chemical Engineering Research and Design</i> , 2020, 138, 312-323.	2.7	35

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37	Effects of distance to the sea and geomorphological characteristics on the quantity and distribution of microplastics in beach sediments of Granada (Spain). <i>Science of the Total Environment</i> , 2020, 746, 142023.	3.9	33
38	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
39	Optimization of the use of a biosorbent to remove heavy metals: Regeneration and reuse of exhausted biosorbent. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2015, 51, 109-118.	2.7	30
40	Removal of heavy metals from acid mining effluents by hydrolyzed olive cake. <i>Bioresource Technology</i> , 2018, 268, 169-175.	4.8	30
41	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
42	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
43	Microplastics as Vectors of Chromium and Lead during Dynamic Simulation of the Human Gastrointestinal Tract. <i>Sustainability</i> , 2020, 12, 4792.	1.6	28
44	Biosorption of Cr ⁶⁺ from aqueous solution by sugarcane bagasse. <i>Desalination and Water Treatment</i> , 2014, 52, 5912-5922.	1.0	27
45	Combustion of a Pb(II)-loaded olive tree pruning used as biosorbent. <i>Journal of Hazardous Materials</i> , 2016, 308, 285-293.	6.5	27
46	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
47	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
48	Flotation of low-grade phosphate ore. <i>Advanced Powder Technology</i> , 2004, 15, 421-433.	2.0	24
49	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
50	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
51	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
52	Hydrolyzed olive cake as novel adsorbent for copper removal from fertilizer industry wastewater. <i>Journal of Cleaner Production</i> , 2020, 268, 121935.	4.6	22
53	Copper biosorption in the presence of lead onto olive stone and pine bark in batch and continuous systems. <i>Environmental Progress and Sustainable Energy</i> , 2014, 33, 192-204.	1.3	21
54	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

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55	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
56	Recovery, separation and production of fuel, plastic and aluminum from the Tetra PAK waste to hydrothermal and pyrolysis processes. <i>Waste Management</i> , 2022, 137, 179-189.	3.7	17
57	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
58	Playing a Board Game to Learn Bioenergy and Biofuels Topics in an Interactive, Engaging Context. <i>Journal of Chemical Education</i> , 2020, 97, 1375-1380.	1.1	15
59	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
60	Liquid Hot Water Pretreatment and Enzymatic Hydrolysis as a Valorization Route of Italian Green Pepper Waste to Delivery Free Sugars. <i>Foods</i> , 2020, 9, 1640.	1.9	13
61	Kinetic considerations in the flotation of phosphate ore. <i>Advanced Powder Technology</i> , 2005, 16, 347-361.	2.0	12
62	The scale-up of Cr ³⁺ biosorption onto olive stone in a fixed bed column. <i>Desalination and Water Treatment</i> , 2016, 57, 25140-25152.	1.0	12
63	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
64	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
65	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
66	Comparative study of isotherm parameters of lead biosorption by two wastes of olive-oil production. <i>Water Science and Technology</i> , 2015, 72, 711-720.	1.2	11
67	Recovering Metals from Aqueous Solutions by Biosorption onto Hydrolyzed Olive Cake. <i>Water (Switzerland)</i> , 2019, 11, 2519.	1.2	11
68	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
69	Complete use of an agricultural waste: Application of untreated and chemically treated olive stone as biosorbent of lead ions and reuse as fuel. <i>Chemical Engineering Research and Design</i> , 2015, 104, 740-751.	2.7	10
70	Simultaneous biosorption of methylene blue and trivalent chromium onto olive stone. <i>Desalination and Water Treatment</i> , 2016, 57, 17400-17410.	1.0	10
71	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
72	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

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73	Surface Tension for Aqueous Solutions of Sodium 1-Dodecanesulfonate. Journal of Chemical & Engineering Data, 2006, 51, 1216-1219.	1.0	9
74	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
75	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
76	The effect of the degree of grinding on the flotation of celestite ore. Advanced Powder Technology, 2001, 12, 481-491.	2.0	8
77	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
78	Evaluation of biosorption of copper ions onto pinion shell. Desalination and Water Treatment, 2013, 51, 2411-2422.	1.0	7
79	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
80	CHARACTERIZATION OF PLASTIC MATERIALS PRESENT IN MUNICIPAL SOLID WASTE: PRELIMINARY STUDY FOR THEIR MECHANICAL RECYCLING. Detritus, 2018, In Press, 1.	0.4	7
81	Influence of nickel during the thermal degradation of pine cone shell. Study of the environmental implications. Journal of Cleaner Production, 2018, 183, 403-414.	4.6	6
82	Study of the kinetic parameters of thermal and oxidative degradation of various residual materials. Biomass and Bioenergy, 2019, 124, 13-24.	2.9	6
83	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
84	Testing of New Collectors for Concentration of Fluorite by Flotation in Pneumatic (Modified) Tj ETQq0 0 0 rgBT /Overlock 10 Jf 50 302 1	0.8	4
85	Separation of the Soluble Salts KNO ₃ and NH ₄ Cl by Flotation with Oleic Acid. Chemical Engineering Research and Design, 2003, 81, 963-970.	2.7	3
86	Equilibrium modelling of Cr (VI) biosorption by olive stone. , 2008, , .		3
87	Interaction probabilities in a four components aqueous two-phase system: polymer+salt+water+protein. Chemical Engineering Science, 2001, 56, 4451-4456.	1.9	2
88	Potentiometric titrations for the characterization of functional groups on solid wastes of the olive oil production. Environmental Progress and Sustainable Energy, 2010, 29, 249-258.	1.3	2
89	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
90	Contact Angle and Surface Tension in the Celestite + Alkylic Collector Aqueous Solutions + Air System. Journal of Chemical & Engineering Data, 2009, 54, 314-317.	1.0	1

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91	BINARY BIOSORPTION OF Cu(II)-Pb(II) MIXTURES ONTO PINE NUTS SHELL IN BATCH AND PACKED BED SYSTEMS. Environmental Engineering and Management Journal, 2018, 17, 1349-1361.	0.2	1
92	Physic-Chemical Characterization of a Waste from Olive Industry. Key Engineering Materials, 2015, 663, 140-147.	0.4	0
93	Column Leaching Tests to Valorize a Solid Waste from the Decommissioning of Coal-Fired Power Plants. Energies, 2019, 12, 1684.	1.6	0
94	Olive-Oil Waste for the Removal of Heavy Metals from Wastewater. Environmental Chemistry for A Sustainable World, 2021, , 51-79.	0.3	0