M A MartÃ-n-Lara

List of Publications by Year
in descending order

101 papers	3,855 citations	109264 35 h-index	138417 58 g-index
101 all docs	101 docs citations	101 times ranked	3923 citing authors

#	Article	IF	Citations
1	The potential of microplastics as carriers of metals. Environmental Pollution, 2019, 255, 113363.	3.7	367
2	Study of Cr (III) biosorption in a fixed-bed column. Journal of Hazardous Materials, 2009, 171, 886-893.	6.5	211
3	Removal of nickel (II) ions from aqueous solutions by biosorption on sugarcane bagasse. Journal of the Taiwan Institute of Chemical Engineers, 2012, 43, 275-281.	2.7	164
4	The effect of pH on the biosorption of Cr (III) and Cr (VI) with olive stone. Chemical Engineering Journal, 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. Chemical Engineering Journal, 2011, 168, 170-177.	6.6	136
6	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
7	Modification of the sorptive characteristics of sugarcane bagasse for removing lead from aqueous solutions. Desalination, 2010, 256, 58-63.	4.0	97
8	Biosorption of hexavalent chromium from aqueous solution by Sargassum muticum brown alga. Application of statistical design for process optimization. Chemical Engineering Journal, 2012, 183, 68-76.	6.6	96
9	Torrefaction of olive tree pruning: Effect of operating conditions on solid product properties. Fuel, 2017, 202, 109-117.	3.4	94
10	Equilibrium biosorption of lead(II) from aqueous solutions by solid waste from olive-oil production. Chemical Engineering Journal, 2010, 160, 615-622.	6.6	89
11	Characterization of chemically modified biosorbents from olive tree pruning for the biosorption of lead. Ecological Engineering, 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. Biochemical Engineering Journal, 2009, 44, 151-159.	1.8	80
13	Physical-chemical characterization of microplastics present in some exfoliating products from Spain. Marine Pollution Bulletin, 2019, 139, 91-99.	2.3	75
14	Chemical treatment of olive pomace: Effect on acid-basic properties and metal biosorption capacity. Journal of Hazardous Materials, 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. International Journal of Mineral Processing, 2016, 148, 72-82.	2.6	66
16	Multiple biosorptionâ€“desorption cycles in a fixed-bed column for Pb(II) removal by acid-treated olive stone. Journal of Industrial and Engineering Chemistry, 2012, 18, 1006-1012.	2.9	65
17	Effect of lead in biosorption of copper by almond shell. Journal of the Taiwan Institute of Chemical Engineers, 2013, 44, 466-473.	2.7	63
18	Copper biosorption by pine cone shell and thermal decomposition study of the exhausted biosorbent. Journal of Industrial and Engineering Chemistry, 2012, 18, 1741-1750.	2.9	62

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19	Kinetic modelling of torrefaction of olive tree pruning. Applied Thermal Engineering, 2017, 113, 1410-1418.	3.0	61
20	Characterization of fuel produced by pyrolysis of plastic film obtained of municipal solid waste. Energy, 2019, 186, 115874.	4.5	59
21	Evaluation and comparison of the biosorption process of copper ions onto olive stone and pine bark. Journal of Industrial and Engineering Chemistry, 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. Renewable Energy, 2016, 96, 613-624.	4.3	58
23	Analysis of the kinetics of lead biosorption using native and chemically treated olive tree pruning. Ecological Engineering, 2013, 58, 278-285.	1.6	54
24	Production of an Alternative Fuel by Pyrolysis of Plastic Wastes Mixtures. Energy & Fuels, 2020, 34, 1781-1790.	2.5	53
25	Biosorption kinetics of Cd (II), Cr (III) and Pb (II) in aqueous solutions by olive stone. Brazilian Journal of Chemical Engineering, 2009, 26, 265-273.	0.7	49
26	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
27	Physico-chemical characterization of pine cone shell and its use as biosorbent and fuel. Bioresource Technology, 2015, 196, 406-412.	4.8	47
28	A real case study of mechanical recycling as an alternative for managing of polyethylene plastic film presented in mixed municipal solid waste. Journal of Cleaner Production, 2018, 203, 777-787.	4.6	46
29	Characterization and modeling of pyrolysis of the two-phase olive mill solid waste. Fuel Processing Technology, 2014, 126, 104-111.	3.7	45
30	Effective removal of zinc from industrial plating wastewater using hydrolyzed olive cake: Scale-up and preparation of zinc-Based biochar. Journal of Cleaner Production, 2019, 227, 634-644.	4.6	44
31	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
32	Effect of the Acid Treatment of Olive Stone on the Biosorption of Lead in a Packed-Bed Column. Industrial & Engineering Chemistry Research, 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. Bioresource Technology, 2018, 252, 100-109.	4.8	38
34	Adsorptive Behavior of an Activated Carbon for Bisphenol A Removal in Single and Binary (Bisphenol) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.2	38
35	Microplastics and fibers from three areas under different anthropogenic pressures in Douro river. Science of the Total Environment, 2021, 776, 145999.	3.9	37
36	Comparative study of the biosorption of cadmium(II), chromium(III), and lead(II) by olive stone. Environmental Progress, 2008, 27, 469-478.	0.8	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). Science of the Total Environment, 2020, 746, 142023.	3.9	33
38	Factorial experimental design for optimizating the removal conditions of lead ions from aqueous solutions by three wastes of the olive-oil production. Desalination, 2011, 278, 132-140.	4.0	32
39	Removal of heavy metals from acid mining effluents by hydrolyzed olive cake. Bioresource Technology, 2018, 268, 169-175.	4.8	30
40	Effect of torrefaction conditions on greenhouse crop residue: Optimization of conditions to upgrade solid characteristics. Bioresource Technology, 2017, 244, 741-749.	4.8	29
41	The role of temperature on slow pyrolysis of olive cake for the production of solid fuels and adsorbents. Chemical Engineering Research and Design, 2019, 121, 209-220.	2.7	29
42	Microplastics as Vectors of Chromium and Lead during Dynamic Simulation of the Human Gastrointestinal Tract. Sustainability, 2020, 12, 4792.	1.6	28
43	Characterization and Use of Char Produced from Pyrolysis of Post-Consumer Mixed Plastic Waste. Water (Switzerland), 2021, 13, 1188.	1.2	28
44	Combustion of a Pb(II)-loaded olive tree pruning used as biosorbent. Journal of Hazardous Materials, 2016, 308, 285-293.	6.5	27
45	Scale-up of a packed bed column for wastewater treatment. Water Science and Technology, 2018, 77, 1386-1396.	1.2	27
46	Batch and continuous packed column studies of chromium (III) biosorption by olive stone. Environmental Progress and Sustainable Energy, 2011, 30, 576-585.	1.3	26
47	Kinetic analysis of pyrolysis and combustion of the olive tree pruning by chemical fractionation. Bioresource Technology, 2018, 249, 557-566.	4.8	26
48	Energy consumption reduction proposals for thermal systems in residential buildings. Energy and Buildings, 2018, 175, 121-130.	3.1	26
49	Chemical activation of olive tree pruning to remove lead(II) in batch system: Factorial design for process optimization. Biomass and Bioenergy, 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. Journal of Environmental Engineering, ASCE, 2010, 136, 1389-1397.	0.7	22
51	Pyrolysis kinetics of the lead-impregnated olive stone by non-isothermal thermogravimetry. Chemical Engineering Research and Design, 2018, 113, 448-458.	2.7	22
52	Hydrolyzed olive cake as novel adsorbent for copper removal from fertilizer industry wastewater. Journal of Cleaner Production, 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. Environmental Progress and Sustainable Energy, 2014, 33, 192-204.	1.3	21
54	Experimental investigation on the smouldering of pine bark. Fuel, 2017, 193, 81-94.	3.4	21

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55	Green strategies for microplastics reduction. Current Opinion in Green and Sustainable Chemistry, 2021, 28, 100442.	3.2	21
56	Environmental status of marine plastic pollution in Spain. Marine Pollution Bulletin, 2021, 170, 112677.	2.3	21
57	Volatile and semivolatile emissions from the pyrolysis of almond shell loaded with heavy metals. Science of the Total Environment, 2018, 613-614, 418-427.	3.9	20
58	Kinetic Modeling of the Biosorption of Lead(II) from Aqueous Solutions by Solid Waste Resulting from the Olive Oil Production. Journal of Chemical & Engineering Data, 2011, 56, 3053-3060.	1.0	19
59	Kinetics of thermal decomposition of some biomasses in an inert environment. An investigation of the effect of lead loaded by biosorption. Waste Management, 2017, 70, 101-113.	3.7	19
60	Experimental investigation on the air gasification of olive cake at low temperatures. Fuel Processing Technology, 2021, 213, 106703.	3.7	18
61	Life cycle assessment of mechanical recycling of post-consumer polyethylene flexible films based on a real case in Spain. Journal of Cleaner Production, 2022, 365, 132625.	4.6	18
62	Water washing for upgrading fuel properties of greenhouse crop residue from pepper. Renewable Energy, 2020, 145, 2121-2129.	4.3	17
63	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
64	Kinetic study of thermal degradation of olive cake based on a scheme of fractionation and its behavior impregnated of metals. Bioresource Technology, 2018, 261, 104-116.	4.8	15
65	Performance of Different Catalysts for the In Situ Cracking of the Oil-Waxes Obtained by the Pyrolysis of Polyethylene Film Waste. Sustainability, 2020, 12, 5482.	1.6	15
66	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
67	Effect of the Presence of Chromium (III) on the Removal of Lead (II) from Aqueous Solutions by Agricultural Wastes. Journal of Environmental Engineering, ASCE, 2009, 135, 1348-1356.	0.7	13
68	Assessment of the removal mechanism of hexavalent chromium from aqueous solutions by olive stone. Water Science and Technology, 2016, 73, 2680-2688.	1.2	13
69	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
70	The scale-up of Cr³⁺ biosorption onto olive stone in a fixed bed column. Desalination and Water Treatment, 2016, 57, 25140-25152.	1.0	12
71	Reaction schemes for estimating kinetic parameters of thermal decomposition of native and metal-loaded almond shell. Chemical Engineering Research and Design, 2018, 118, 234-244.	2.7	12
72	Integral exploitation from olive cake for energy production in a biorefinery scheme. Chemical Engineering Research and Design, 2019, 131, 135-143.	2.7	12

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73	Biosorption of Cu²⁺in a packed bed column by almond shell: optimization of process variables. Desalination and Water Treatment, 2013, 51, 1954-1965.	1.0	11
74	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
75	Recovering Metals from Aqueous Solutions by Biosorption onto Hydrolyzed Olive Cake. Water (Switzerland), 2019, 11, 2519.	1.2	11
76	Life cycle assessment on producing a heavy metals biosorbent from sugarcane bagasse. Desalination and Water Treatment, 2011, 30, 272-277.	1.0	10
77	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
78	Simultaneous biosorption of methylene blue and trivalent chromium onto olive stone. Desalination and Water Treatment, 2016, 57, 17400-17410.	1.0	10
79	Improving the internship experience in the master of chemical engineering at the University of Granada. Education for Chemical Engineers, 2019, 26, 97-106.	2.8	10
80	Greenhouse Crop Residue and Its Derived Biochar: Potential as Adsorbent of Cobalt from Aqueous Solutions. Water (Switzerland), 2020, 12, 1282.	1.2	10
81	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
82	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
83	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
84	Evaluation of biosorption of copper ions onto pinion shell. Desalination and Water Treatment, 2013, 51, 2411-2422.	1.0	7
85	CHARACTERIZATION OF PLASTIC MATERIALS PRESENT IN MUNICIPAL SOLID WASTE: PRELIMINARY STUDY FOR THEIR MECHANICAL RECYCLING. Detritus, 2018, In Press, 1.	0.4	7
86	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
87	Optimal Depressants and Collector Dosage in Fluorite Flotation Process Based on DoE Methodology. Applied Sciences (Switzerland), 2019, 9, 366.	1.3	5
88	Valorization of olive stone as adsorbent of chromium(VI): comparison between laboratory- and pilot-scale fixed-bed columns. International Journal of Environmental Science and Technology, 2017, 14, 2661-2674.	1.8	4
89	Implementation of Modeling Tools for Teaching Biorefinery (Focused on Bioethanol Production) in Biochemical Engineering Courses: Dynamic Modeling of Batch, Semi-Batch, and Continuous Well-Stirred Bioreactors. Energies, 2020, 13, 5772.	1.6	4
90	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

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91	Testing of New Collectors for Concentration of Fluorite by Flotation in Pneumatic (Modified) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	0.8	4
92	Education for Sustainable Energy: Comparison of Different Types of E-Learning Activities. Energies, 2020, 13, 4022.	1.6	3
93	Equilibrium modelling of Cr (VI) biosorption by olive stone. , 2008, , .		3
94	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
95	Study of Ni(II) removal by olive tree pruning and pine cone shell by experimental design methodology. Desalination and Water Treatment, 2016, 57, 15057-15072.	1.0	2
96	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
97	Integrating entrepreneurial activities in chemical engineering education: a case study on solid waste management. European Journal of Engineering Education, 2020, 45, 758-779.	1.5	1
98	Physic-Chemical Characterization of a Waste from Olive Industry. Key Engineering Materials, 2015, 663, 140-147.	0.4	0
99	Column Leaching Tests to Valorize a Solid Waste from the Decommissioning of Coal-Fired Power Plants. Energies, 2019, 12, 1684.	1.6	0
100	Microplastic Pollution in Water. Environmental Chemistry for A Sustainable World, 2021, , 1-44.	0.3	0
101	Olive-Oil Waste for the Removal of Heavy Metals from Wastewater. Environmental Chemistry for A Sustainable World, 2021, , 51-79.	0.3	0