

# Gabriel Blázquez

## List of Publications by Year in descending order

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96  
papers

3,942  
citations

117571

34  
h-index

133188

59  
g-index

96  
all docs

96  
docs citations

96  
times ranked

4188  
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	Density and Viscosity of Concentrated Aqueous Solutions of Polyethylene Glycol. <i>Journal of Chemical &amp; Engineering Data</i> , 1994, 39, 611-614.	1.0	192
4	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
5	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
6	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
7	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
8	Removal of cadmium ions with olive stones: the effect of some parameters. <i>Process Biochemistry</i> , 2005, 40, 2649-2654.	1.8	112
9	Liquid-Liquid Equilibrium in the System Poly(ethylene glycol) + MgSO <sub>4</sub> + H <sub>2</sub> O at 298 K. <i>Journal of Chemical &amp; Engineering Data</i> , 1996, 41, 1333-1336.	1.0	108
10	Modification of the sorptive characteristics of sugarcane bagasse for removing lead from aqueous solutions. <i>Desalination</i> , 2010, 256, 58-63.	4.0	97
11	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
12	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
13	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
14	Physical-chemical characterization of microplastics present in some exfoliating products from Spain. <i>Marine Pollution Bulletin</i> , 2019, 139, 91-99.	2.3	75
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	Characterization of fuel produced by pyrolysis of plastic film obtained of municipal solid waste. <i>Energy</i> , 2019, 186, 115874.	4.5	59
21	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
22	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
23	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
24	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
25	Production of an Alternative Fuel by Pyrolysis of Plastic Wastes Mixtures. <i>Energy &amp; Fuels</i> , 2020, 34, 1781-1790.	2.5	53
26	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
27	Development and Characterization of Biosorbents To Remove Heavy Metals from Aqueous Solutions by Chemical Treatment of Olive Stone. <i>Industrial &amp; 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	A real case study of mechanical recycling as an alternative for managing of polyethylene plastic film presented in mixed municipal solid waste. <i>Journal of Cleaner Production</i> , 2018, 203, 777-787.	4.6	46
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	Effective removal of zinc from industrial plating wastewater using hydrolyzed olive cake: Scale-up and preparation of zinc-Based biochar. <i>Journal of Cleaner Production</i> , 2019, 227, 634-644.	4.6	44
32	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
33	Effect of the Acid Treatment of Olive Stone on the Biosorption of Lead in a Packed-Bed Column. <i>Industrial &amp; Engineering Chemistry Research</i> , 2010, 49, 12587-12595.	1.8	38
34	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
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	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
41	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
42	Comparison of two models for the biosorption of Pb(II) using untreated and chemically treated olive stone: Experimental design methodology and adaptive neural fuzzy inference system (ANFIS). <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2015, 54, 45-56.	2.7	28
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	Characterization and Use of Char Produced from Pyrolysis of Post-Consumer Mixed Plastic Waste. <i>Water (Switzerland)</i> , 2021, 13, 1188.	1.2	28
45	Biosorption of Cr <sup>6+</sup> from aqueous solution by sugarcane bagasse. <i>Desalination and Water Treatment</i> , 2014, 52, 5912-5922.	1.0	27
46	Scale-up of a packed bed column for wastewater treatment. <i>Water Science and Technology</i> , 2018, 77, 1386-1396.	1.2	27
47	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
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 &amp; 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	Experimental investigation on the air gasification of olive cake at low temperatures. <i>Fuel Processing Technology</i> , 2021, 213, 106703.	3.7	18
57	Oxygen absorption in alkaline sodium dithionite solutions. <i>Chemical Engineering Science</i> , 1992, 47, 4309-4314.	1.9	17
58	Equilibrium modeling of removal of cadmium ions by olive stones. <i>Environmental Progress</i> , 2006, 25, 261-266.	0.8	17
59	Water washing for upgrading fuel properties of greenhouse crop residue from pepper. <i>Renewable Energy</i> , 2020, 145, 2121-2129.	4.3	17
60	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
61	Partition coefficients of $\alpha$ -amylase in aqueous two-phase systems PEG+MgSO <sub>4</sub> ·7H <sub>2</sub> O+H <sub>2</sub> O at 298K. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1998, 1379, 191-197.	1.1	16
62	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
63	Performance of Different Catalysts for the In Situ Cracking of the Oil-Waxes Obtained by the Pyrolysis of Polyethylene Film Waste. <i>Sustainability</i> , 2020, 12, 5482.	1.6	15
64	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
65	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
66	Kinetic considerations in the flotation of phosphate ore. <i>Advanced Powder Technology</i> , 2005, 16, 347-361.	2.0	12
67	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
68	Integral exploitation from olive cake for energy production in a biorefinery scheme. <i>Chemical Engineering Research and Design</i> , 2019, 131, 135-143.	2.7	12
69	Biosorption of Cu <sup>2+</sup> 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
70	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
71	Recovering Metals from Aqueous Solutions by Biosorption onto Hydrolyzed Olive Cake. <i>Water (Switzerland)</i> , 2019, 11, 2519.	1.2	11
72	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

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73	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
74	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
75	Greenhouse Crop Residue and Its Derived Biochar: Potential as Adsorbent of Cobalt from Aqueous Solutions. <i>Water (Switzerland)</i> , 2020, 12, 1282.	1.2	10
76	Surface Tension for Aqueous Solutions of Sodium 1-Dodecanesulfonate. <i>Journal of Chemical &amp; Engineering Data</i> , 2006, 51, 1216-1219.	1.0	9
77	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. <i>Journal of Energy Chemistry</i> , 2019, 32, 105-117.	7.1	9
78	Characterization of liquid fraction obtained from pyrolysis of post-consumer mixed plastic waste: A comparing between measured and calculated parameters. <i>Chemical Engineering Research and Design</i> , 2022, 159, 1053-1063.	2.7	9
79	Study of the catalytic effect of nickel in the thermal decomposition of olive tree pruning via thermogravimetric analysis. <i>Renewable Energy</i> , 2017, 103, 825-835.	4.3	8
80	Evaluation of biosorption of copper ions onto pinion shell. <i>Desalination and Water Treatment</i> , 2013, 51, 2411-2422.	1.0	7
81	Effect of different pre-treatments and addition of plastic on the properties of bio-oil obtained by pyrolysis of greenhouse crop residue. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 153, 104977.	2.6	7
82	Influence of pH on the oxygen absorption kinetics in alkaline sodium dithionite solutions. <i>Chemical Engineering Science</i> , 1995, 50, 1181-1186.	1.9	6
83	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
84	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
85	Separation of the Soluble Salts KNO <sub>3</sub> and NH <sub>4</sub> Cl by Flotation with Oleic Acid. <i>Chemical Engineering Research and Design</i> , 2003, 81, 963-970.	2.7	3
86	Mixed solid waste from the decommissioning of coal-fired power plants as a resource of high value metals. <i>Chemical Engineering Research and Design</i> , 2019, 125, 9-15.	2.7	3
87	Equilibrium modelling of Cr (VI) biosorption by olive stone. , 2008, , .		3
88	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
89	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
90	Characterization of the Different Oils Obtained through the Catalytic In Situ Pyrolysis of Polyethylene Film from Municipal Solid Waste. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 4043.	1.3	2

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91	Contact Angle and Surface Tension in the Celestite + Alkylic Collector Aqueous Solutions + Air System. <i>Journal of Chemical &amp; Engineering Data</i> , 2009, 54, 314-317.	1.0	1
92	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
93	Physic-Chemical Characterization of a Waste from Olive Industry. <i>Key Engineering Materials</i> , 2015, 663, 140-147.	0.4	0
94	Column Leaching Tests to Valorize a Solid Waste from the Decommissioning of Coal-Fired Power Plants. <i>Energies</i> , 2019, 12, 1684.	1.6	0
95	Olive-Oil Waste for the Removal of Heavy Metals from Wastewater. <i>Environmental Chemistry for A Sustainable World</i> , 2021, , 51-79.	0.3	0
96	Innovative and environmental-friendly process to extract polyphenols, polyalcohols and furfural from olive cake by a biorefinery scheme. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2022, 134, 104302.	2.7	0