EncarnaciÃ³n Ruiz

List of Publications by Year
in descending order

126 papers	5,995 citations	53794 45 h-index	85541 71 g-index
127 all docs	127 docs citations	127 times ranked	5584 citing authors

#	Article	IF	Citations
1	Process optimisation for production and recovery of succinic acid using xylose-rich hydrolysates by Actinobacillus succinogenes. Bioresource Technology, 2022, 344, 126224.	9.6	26
2	Valorization of renewable resources to functional oligosaccharides: Recent trends and future prospective. Bioresource Technology, 2022, 346, 126590.	9.6	13
3	Exploitation of olive tree pruning biomass through hydrothermal pretreatments. Industrial Crops and Products, 2022, 176, 114425.	5.2	12
4	Bioethanol Production from Steam-Exploded Barley Straw by Co-Fermentation with Escherichia coli SL100. Agronomy, 2022, 12, 874.	3.0	16
5	Biorefinery Based on Waste Biomass. Energies, 2022, 15, 54.	3.1	2
6	Biotechnological use of the ubiquitous fungus Penicillium sp. 8L2: Biosorption of Ag(I) and synthesis of silver nanoparticles. Journal of Environmental Management, 2022, 316, 115281.	7.8	5
7	The potential role of olive groves to deliver carbon dioxide removal in a carbon-neutral Europe: Opportunities and challenges. Renewable and Sustainable Energy Reviews, 2022, 165, 112609.	16.4	13
8	Olive Pomace-Derived Biomasses Fractionation through a Two-Step Extraction Based on the Use of Ultrasounds: Chemical Characteristics. Foods, 2021, 10, 111.	4.3	30
9	Production of renewable products from brewery spent grains. , 2021, , 305-347.		1
10	A biorefinery approach to obtain antioxidants, lignin and sugars from exhausted olive pomace. Journal of Industrial and Engineering Chemistry, 2021, 96, 356-363.	5.8	29
11	Location of Biorefineries Based on Olive-Derived Biomass in Andalusia, Spain. Energies, 2021, 14, 3052.	3.1	6
12	Recovery of Bioactive Compounds from Industrial Exhausted Olive Pomace through Ultrasound-Assisted Extraction. Biology, 2021, 10, 514.	2.8	17
13	Microwave-assisted production of furfural from the hemicellulosic fraction of olive stones. Chemical Engineering Research and Design, 2021, 152, 630-640.	5.6	11
14	Biorefining for olive wastes management and efficient bioenergy production. Energy Conversion and Management, 2021, 244, 114467.	9.2	32
15	Biosorption mechanisms of Ag(I) and the synthesis of nanoparticles by the biomass from Botryosphaeria rhodina MAMB-05. Journal of Hazardous Materials, 2021, 420, 126598.	12.4	11
16	High level xylitol production by Pichia fermentans using non-detoxified xylose-rich sugarcane bagasse and olive pits hydrolysates. Bioresource Technology, 2021, 342, 126005.	9.6	36
17	Sequential Extraction of Hydroxytyrosol, Mannitol and Triterpenic Acids Using a Green Optimized Procedure Based on Ultrasound. Antioxidants, 2021, 10, 1781.	5.1	10
18	Recovery of Antioxidant Compounds from Exhausted Olive Pomace through Microwave-Assisted Extraction. , 2021, 6, .		1

#	Article	IF	Citations
19	Evaluation of Technologies for the Co-Extraction of Phenolic Compounds and Proteinaceous Material from Olive-Derived Biomasses. , 2021, 6, .		0
20	Effective Production of Bioactive Phenolic Compounds from Olive Stones. , 2021, 6, .		0
21	Supercritical fluid extraction for enhancing polyphenolic compounds production from olive waste extracts. Journal of Chemical Technology and Biotechnology, 2020, 95, 356-362.	3.2	44
22	Engineering aspects of hydrothermal pretreatment: From batch to continuous operation, scale-up and pilot reactor under biorefinery concept. Bioresource Technology, 2020, 299, 122685.	9.6	236
23	Brewerâ€™s spent grain as a source of renewable fuel through optimized dilute acid pretreatment. Renewable Energy, 2020, 148, 81-90.	8.9	43
24	Avocado-Derived Biomass as a Source of Bioenergy and Bioproducts. Applied Sciences (Switzerland), 2020, 10, 8195.	2.5	38
25	Valorisation of Exhausted Olive Pomace by an Eco-Friendly Solvent Extraction Process of Natural Antioxidants. Antioxidants, 2020, 9, 1010.	5.1	36
26	Optimization with Response Surface Methodology of Microwave-Assisted Conversion of Xylose to Furfural. Molecules, 2020, 25, 3574.	3.8	14
27	Xylitol Production from Exhausted Olive Pomace by Candida boidinii. Applied Sciences (Switzerland), 2020, 10, 6966.	2.5	19
28	Olive-derived biomass as a renewable source of value-added products. Process Biochemistry, 2020, 97, 43-56.	3.7	61
29	Characterization of the lignocellulosic and sugars composition of different olive leaves cultivars. Food Chemistry, 2020, 329, 127153.	8.2	13
30	Production of Ethanol from Hemicellulosic Sugars of Exhausted Olive Pomace by Escherichia coli. Processes, 2020, 8, 533.	2.8	19
31	Content of phenolic compounds and mannitol in olive leaves extracts from six Spanish cultivars: Extraction with the Soxhlet method and pressurized liquids. Food Chemistry, 2020, 320, 126626.	8.2	87
32	How Cultivar and Extraction Conditions Affect Antioxidants Type and Extractability for Olive Leaves Valorization. ACS Sustainable Chemistry and Engineering, 2020, 8, 5107-5118.	6.7	31
33	Effect of Olive-Pine Bottom Ash on Properties of Geopolymers Based on Metakaolin. Materials, 2020, 13, 901.	2.9	14
34	Wood Bottom Ash and GeoSilex: A By-Product of the Acetylene Industry as Alternative Raw Materials in Calcium Silicate Units. Materials, 2020, 13, 489.	2.9	5
35	Biorefineries: a step forward to a circular bioeconomy. Biofuels, Bioproducts and Biorefining, 2020, 14, 5-6.	3.7	1
36	Valorization of olive mill leaves through ultrasound-assisted extraction. Food Chemistry, 2020, 314, 126218.	8.2	48

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37	Extraction Strategies to Recover Bioactive Compounds, Incorporation into Food and Health Benefits: Current Works and Future Challenges. Foods, 2020, 9, 393.	4.3	0
38	Valorisation of olive stone by-product for sugar production using a sequential acid/steam explosion pretreatment. Industrial Crops and Products, 2020, 148, 112279.	5.2	55
39	Avocado-Derived Biomass: Chemical Composition and Antioxidant Potential. Proceedings (mdpi), 2020, 70, .	0.2	11
40	Therapeutic Bio-Compounds from Avocado Residual Biomass. Proceedings (mdpi), 2020, 79, .	0.2	0
41	Comparison of Untapped Agroindustrial Olive Resources with Olive Leaves. Proceedings (mdpi), 2020, 79, .	0.2	1
42	Optimization of ultrasound-assisted extraction of biomass from olive trees using response surface methodology. Ultrasonics Sonochemistry, 2019, 51, 487-495.	8.2	108
43	Optimization of Oleuropein and Luteolin-7-O-Glucoside Extraction from Olive Leaves by Ultrasound-Assisted Technology. Energies, 2019, 12, 2486.	3.1	41
44	Ultrasound-Assisted Extraction as a First Step in a Biorefinery Strategy for Valorisation of Extracted Olive Pomace. Energies, 2019, 12, 2679.	3.1	20
45	Determination of the Lignocellulosic Components of Olive Tree Pruning Biomass by Near Infrared Spectroscopy. Energies, 2019, 12, 2497.	3.1	16
46	Integrated Process for Sequential Extraction of Bioactive Phenolic Compounds and Proteins from Mill and Field Olive Leaves and Effects on the Lignocellulosic Profile. Foods, 2019, 8, 531.	4.3	21
47	Assessment of By-Product from Botryosphaeria rhodina MAMB-05 as an Effective Biosorbent of Pb(II). Molecules, 2019, 24, 3306.	3.8	3
48	Extraction of oleuropein and luteolin-7-O-glucoside from olive leaves: Optimization of technique and operating conditions. Food Chemistry, 2019, 293, 161-168.	8.2	62
49	Sustainable Production of Carbon Nanoparticles from Olive Pit Biomass: Understanding Proton Transfer in the Excited State on Carbon Dots. ACS Sustainable Chemistry and Engineering, 2019, 7, 10493-10500.	6.7	26
50	Protein extraction from agri-food residues for integration in biorefinery: Potential techniques and current status. Bioresource Technology, 2019, 280, 459-477.	9.6	137
51	Ethanol Production from Brewersâ€™ Spent Grain Pretreated by Dilute Phosphoric Acid. Energy & Fuels, 2018, 32, 5226-5233.	5.1	51
52	Optimization of dilute acid pretreatment of Agave lechuguilla and ethanol production by co-fermentation with Escherichia coli MM160. Industrial Crops and Products, 2018, 114, 154-163.	5.2	38
53	Application of a combined fungal and diluted acid pretreatment on olive tree biomass. Industrial Crops and Products, 2018, 121, 10-17.	5.2	54
54	Xylitol production by Debaryomyces hansenii and Candida guilliermondii from rapeseed straw hemicellulosic hydrolysate. Bioresource Technology, 2018, 247, 736-743.	9.6	83

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55	Assessing cellulose nanofiber production from olive tree pruning residue. Carbohydrate Polymers, 2018, 179, 252-261.	10.2	80
56	Removal of heavy metals by Klebsiella sp. 3S1. Kinetics, equilibrium and interaction mechanisms of Zn(II) biosorption. Journal of Chemical Technology and Biotechnology, 2018, 93, 1370-1380.	3.2	10
57	Manufacture of Sustainable Clay Bricks Using Waste from Secondary Aluminum Recycling as Raw Material. Materials, 2018, 11, 2439.	2.9	24
58	Structural characteristics of lignin in pruning residues of olive tree (Olea europaea L.). Holzforschung, 2018, 73, 25-34.	1.9	18
59	Techno-economic feasibility of bioethanol production via biorefinery of olive tree prunings (OTP): optimization of the pretreatment stage. Holzforschung, 2018, 73, 3-13.	1.9	24
60	Comparison of fermentation strategies for ethanol production from olive tree pruning biomass. Industrial Crops and Products, 2018, 122, 98-106.	5.2	27
61	Advanced bioethanol production from olive tree biomass using different bioconversion schemes. Biochemical Engineering Journal, 2018, 137, 172-181.	3.6	21
62	Optimization of sugar recovery from rapeseed straw pretreated with FeCl3. Bioresource Technology, 2018, 268, 204-211.	9.6	32
63	Valorisation of olive agro-industrial by-products as a source of bioactive compounds. Science of the Total Environment, 2018, 645, 533-542.	8.0	77
64	Water hyacinth a potential source for value addition: An overview. Bioresource Technology, 2017, 230, 152-162.	9.6	141
65	Biosorption of Ag(I) from aqueous solutions by Klebsiella sp. 3S1. Journal of Hazardous Materials, 2017, 329, 166-177.	12.4	32
66	Comparative analysis of data mining and response surface methodology predictive models for enzymatic hydrolysis of pretreated olive tree biomass. Computers and Chemical Engineering, 2017, 101, 23-30.	3.8	15
67	Recent advances in the production of value added chemicals and lipids utilizing biodiesel industry generated crude glycerol as a substrate â€“ Metabolic aspects, challenges and possibilities: An overview. Bioresource Technology, 2017, 239, 507-517.	9.6	121
68	Combined acid/alkaline-peroxide pretreatment of olive tree biomass for bioethanol production. Bioresource Technology, 2017, 239, 326-335.	9.6	67
69	Learning and researching based on local experience and simulation software for graduate and undergraduate courses in chemical and environmental engineering. Education for Chemical Engineers, 2017, 21, 50-61.	4.8	9
70	Bifidobacterial growth stimulation by oligosaccharides generated from olive tree pruning biomass. Carbohydrate Polymers, 2017, 169, 149-156.	10.2	32
71	Potential for ethanol production from different sorghum cultivars. Industrial Crops and Products, 2017, 109, 367-373.	5.2	46
72	Oliveâ€derived biomass as a source of energy and chemicals. Biofuels, Bioproducts and Biorefining, 2017, 11, 1077-1094.	3.7	67

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73	The biorefinery concept for the industrial valorization of residues from olive oil industry. , 2017, , 57-78.		17
74	Endophytic Fungi as Pretreatment to Enhance Enzymatic Hydrolysis of Olive Tree Pruning. BioMed Research International, 2017, 2017, 1-10.	1.9	12
75	Residual biomass potential in olive tree cultivation and olive oil industry in Spain: valorization proposal in a biorefinery context. Spanish Journal of Agricultural Research, 2017, 15, e0206.	0.6	65
76	Design and Optimization of Sulfuric Acid Pretreatment of Extracted Olive Tree Biomass Using Response Surface Methodology. BioResources, 2016, 12, .	1.0	31
77	Composition of secoiridoid derivatives from Picual virgin olive oil using response surface methodology with regard to malaxation conditions, fruit ripening, and irrigation management. European Food Research and Technology, 2016, 242, 1709-1718.	3.3	9
78	Obtaining sugars and natural antioxidants from olive leaves by steam-explosion. Food Chemistry, 2016, 210, 457-465.	8.2	63
79	Bioconversion of Rapeseed Straw: Enzymatic Hydrolysis of Whole Slurry and Cofermentation by an Ethanologenic Escherichia coli. Energy & Fuels, 2016, 30, 9532-9539.	5.1	15
80	Removal of Pb(II) in a packed-bed column by a Klebsiella sp. 3S1 biofilm supported on porous ceramic Raschig rings. Journal of Industrial and Engineering Chemistry, 2016, 40, 118-127.	5.8	24
81	Techno-economic evaluation of strategies based on two steps organosolv pretreatment and enzymatic hydrolysis of sugarcane bagasse for ethanol production. Renewable Energy, 2016, 86, 270-279.	8.9	51
82	An approach to cellulase recovery from enzymatic hydrolysis of pretreated sugarcane bagasse with high lignin content. Biocatalysis and Biotransformation, 2015, 33, 287-297.	2.0	9
83	Biosorption of Pb(II) Ions byKlebsiellasp. 3S1 Isolated from a Wastewater Treatment Plant: Kinetics and Mechanisms Studies. BioMed Research International, 2015, 2015, 1-12.	1.9	39
84	High Solids Loading Pretreatment of Olive Tree Pruning with Dilute Phosphoric Acid for Bioethanol Production by Escherichia coli. Energy & Fuels, 2015, 29, 1735-1742.	5.1	46
85	Ethanol production from rape straw by a two-stage pretreatment under mild conditions. Bioprocess and Biosystems Engineering, 2015, 38, 1469-1478.	3.4	14
86	Optimization of uncatalyzed steam explosion pretreatment of rapeseed straw for biofuel production. Bioresource Technology, 2015, 190, 97-105.	9.6	77
87	Comparative study of coadjuvants for extraction of olive oil. European Food Research and Technology, 2015, 241, 759-768.	3.3	11
88	Experimental study on ethanol production from hydrothermal pretreated rapeseed straw by simultaneous saccharification and fermentation. Journal of Chemical Technology and Biotechnology, 2014, 89, 104-110.	3.2	33
89	Bioethanol production from rapeseed straw at high solids loading with different process configurations. Fuel, 2014, 122, 112-118.	6.4	76
90	Optimization of dilute-phosphoric-acid steam pretreatment of Eucalyptus benthamii for biofuel production. Applied Energy, 2014, 125, 76-83.	10.1	76

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91	Recycling of washed olive pomace ash for fired clay brick manufacturing. Construction and Building Materials, 2014, 61, 320-326.	7.2	56
92	Low energy-demanding recovery of antioxidants and sugars from olive stones as preliminary steps in the biorefinery context. Industrial Crops and Products, 2014, 60, 30-38.	5.2	33
93	Techno-economic and environmental assessment of an olive stone based biorefinery. Resources, Conservation and Recycling, 2014, 92, 145-150.	10.8	84
94	Restructuring the processes for furfural and xylose production from sugarcane bagasse in a biorefinery concept for ethanol production. Chemical Engineering and Processing: Process Intensification, 2014, 85, 196-202.	3.6	35
95	Fermentable sugar production from rapeseed straw by dilute phosphoric acid pretreatment. Industrial Crops and Products, 2013, 50, 525-531.	5.2	37
96	Dilute sulfuric acid pretreatment of sunflower stalks for sugar production. Bioresource Technology, 2013, 140, 292-298.	9.6	47
97	Pretreatment of olive tree biomass with FeCl3 prior enzymatic hydrolysis. Bioresource Technology, 2013, 128, 180-187.	9.6	67
98	Heavy metal tolerance of microorganisms isolated from wastewaters: Identification and evaluation of its potential for biosorption. Chemical Engineering Journal, 2012, 210, 325-332.	12.7	98
99	Fired clay masonry units production incorporating two-phase olive mill waste (alperujo). Ceramics International, 2012, 38, 5027-5037.	4.8	44
100	Production, purification and characterisation of oligosaccharides from olive tree pruning autohydrolysis. Industrial Crops and Products, 2012, 40, 225-231.	5.2	70
101	Olive tree pruning as an agricultural residue for ethanol production. Fermentation of hydrolysates from dilute acid pretreatment. Spanish Journal of Agricultural Research, 2012, 10, 643.	0.6	22
102	Hydrothermal pre-treatment and enzymatic hydrolysis of sunflower stalks. Fuel, 2011, 90, 3225-3229.	6.4	62
103	Comparison of process configurations for ethanol production from two-step pretreated sugarcane bagasse. Chemical Engineering Journal, 2011, 175, 185-191.	12.7	61
104	Different process configurations for bioethanol production from pretreated olive pruning biomass. Journal of Chemical Technology and Biotechnology, 2011, 86, 881-887.	3.2	74
105	Dilute acid pretreatment of rapeseed straw for fermentable sugar generation. Bioresource Technology, 2011, 102, 1270-1276.	9.6	55
106	Organosolv pretreatment of olive tree biomass for fermentable sugars. Holzforschung, 2011, 65, .	1.9	41
107	An approach to optimization of enzymatic hydrolysis from sugarcane bagasse based on organosolv pretreatment. Journal of Chemical Technology and Biotechnology, 2010, 85, 1092-1098.	3.2	58
108	Preliminary evaluation of organosolv pre-treatment of sugar cane bagasse for glucose production: Application of 23 experimental design. Applied Energy, 2010, 87, 109-114.	10.1	59

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109	Acid hydrolysis of olive tree biomass. Chemical Engineering Research and Design, 2010, 88, 633-640.	5.6	70
110	Hydrothermal pre-treatment of rapeseed straw. Bioresource Technology, 2010, 101, 2428-2435.	9.6	110
111	Inhibition of Pichia stipitis fermentation of hydrolysates from olive tree cuttings. World Journal of Microbiology and Biotechnology, 2009, 25, 891-899.	3.6	63
112	Antioxidant activity of the phenolic compounds released by hydrothermal treatments of olive tree pruning. Food Chemistry, 2009, 114, 806-812.	8.2	112
113	Antioxidant activity of liquors from steam explosion of Olea europea wood. Wood Science and Technology, 2008, 42, 579-592.	3.2	35
114	Conversion of olive tree biomass into fermentable sugars by dilute acid pretreatment and enzymatic saccharification. Bioresource Technology, 2008, 99, 1869-1876.	9.6	274
115	Evaluation of steam explosion pre-treatment for enzymatic hydrolysis of sunflower stalks. Enzyme and Microbial Technology, 2008, 42, 160-166.	3.2	181
116	Production of fuel ethanol from steam-explosion pretreated olive tree pruning. Fuel, 2008, 87, 692-700.	6.4	203
117	Liquid Hot Water Pretreatment of Olive Tree Pruning Residues. , 2007, , 379-394.		7
118	Fermentation of olive tree pruning acid-hydrolysates by Pachysolen tannophilus. Biochemical Engineering Journal, 2007, 36, 108-115.	3.6	39
119	Influence of solid loading on enzymatic hydrolysis of steam exploded or liquid hot water pretreated olive tree biomass. Process Biochemistry, 2007, 42, 1003-1009.	3.7	179
120	Ethanolic fermentation of phosphoric acid hydrolysates from olive tree pruning. Industrial Crops and Products, 2007, 25, 160-168.	5.2	59
121	Sugar fermentation by Fusarium oxysporum to produce ethanol. World Journal of Microbiology and Biotechnology, 2007, 23, 259-267.	3.6	18
122	Liquid hot water pretreatment of olive tree pruning residues. Applied Biochemistry and Biotechnology, 2007, 137-140, 379-394.	2.9	41
123	Enhanced enzymatic hydrolysis of olive tree wood by steam explosion and alkaline peroxide delignification. Process Biochemistry, 2006, 41, 423-429.	3.7	243
124	Ethanol Production From Pretreated Olive Tree Wood and Sunflower Stalks by an SSF Process. Applied Biochemistry and Biotechnology, 2006, 130, 631-643.	2.9	59
125	The fermentation of mixtures ofD-glucose andD-xylose byCandida shehatae, Pichia stipitisorPachysolen tannophilusto produce ethanol. Journal of Chemical Technology and Biotechnology, 2002, 77, 641-648.	3.2	72
126	Combined Extraction and Ethanol Organosolv Fractionation of Exhausted Olive Pomace for Bioactive Compounds. Advanced Sustainable Systems, 0, , 2100361.	5.3	8