Alejandro

List of Publications by Year in descending order

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87	3,473	117453	149479
papers	citations	34 h-index	56 g-index

88	88	88	3325
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Cellulose Nanofiber-Based Aerogels from Wheat Straw: Influence of Surface Load and Lignin Content on Their Properties and Dye Removal Capacity. Biomolecules, 2022, 12, 232.	1.8	28
2	Quercus ilex leaf as a functional ingredient: Polyphenolic profile and antioxidant activity throughout simulated gastrointestinal digestion and antimicrobial activity. Journal of Functional Foods, 2022, 91, 105025.	1.6	5
3	Cellulose nanofibers/PVA blend polymeric beads containing in-situ prepared magnetic nanorods as dye pollutants adsorbents. International Journal of Biological Macromolecules, 2022, 209, 1211-1221.	3.6	10
4	Special Issue â€œLignocellulosic Biomassâ€• Molecules, 2021, 26, 1483.	1.7	3
5	Valorisation of Olea europaea L. Olive Leaves through the Evaluation of Their Extracts: Antioxidant and Antimicrobial Activity. Foods, 2021, 10, 966.	1.9	29
6	Cellulose Nanofibers from Olive Tree Pruning as Food Packaging Additive of a Biodegradable Film. Foods, 2021, 10, 1584.	1.9	26
7	Operational Variables on the Processing of Porous Titanium Bodies by Gelation of Slurries with an Expansive Porogen. Materials, 2021, 14, 4744.	1.3	0
8	Effect of enzymatic treatment (endo-glucanases) of fiber and mechanical lignocellulose nanofibers addition on physical and mechanical properties of binderless high-density fiberboards made from wheat straw. Journal of Building Engineering, 2021, 44, 103392.	1.6	4
9	Lignocellulose Nanofibre Obtained from Agricultural Wastes of Tomato, Pepper and Eggplants Improves the Performance of Films of Polyvinyl Alcohol (PVA) for Food Packaging. Foods, 2021, 10, 3043.	1.9	9
10	Development of high-performance binderless fiberboards from wheat straw residue. Construction and Building Materials, 2020, 232, 117247.	3.2	24
11	Coagulationâ€“Flocculation as an Alternative Way to Reduce the Toxicity of the Black Liquor from the Paper Industry: Thermal Valorization of the Solid Biomass Recovered. Waste and Biomass Valorization, 2020, 11, 4731-4742.	1.8	12
12	Cellulose Nanofibers and Other Biopolymers for Biomedical Applications. A Review. Applied Sciences (Switzerland), 2020, 10, 65.	1.3	108
13	Study on the Macro and Micromechanics Tensile Strength Properties of Orange Tree Pruning Fiber as Sustainable Reinforcement on Bio-Polyethylene Compared to Oil-Derived Polymers and Its Composites. Polymers, 2020, 12, 2206.	2.0	12
14	Industrial application of orange tree nanocellulose as papermaking reinforcement agent. Cellulose, 2020, 27, 10781-10797.	2.4	19
15	Biorefinery Approach for Aerogels. Polymers, 2020, 12, 2779.	2.0	31
16	Horticultural Plant Residues as New Source for Lignocellulose Nanofibers Isolation: Application on the Recycling Paperboard Process. Molecules, 2020, 25, 3275.	1.7	13
17	Feasibility of Barley Straw Fibers as Reinforcement in Fully Biobased Polyethylene Composites: Macro and Micro Mechanics of the Flexural Strength. Molecules, 2020, 25, 2242.	1.7	15
18	Production of Cellulose Nanofibers from Olive Tree Harvestâ€”A Residue with Wide Applications. Agronomy, 2020, 10, 696.	1.3	49

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19	Valorization of Hemp Core Residues: Impact of NaOH Treatment on the Flexural Strength of PP Composites and Intrinsic Flexural Strength of Hemp Core Fibers. Biomolecules, 2020, 10, 823.	1.8	10
20	Use of multi-factorial analysis to determine the quality of cellulose nanofibers: effect of nanofibrillation treatment and residual lignin content. Cellulose, 2020, 27, 10689-10705.	2.4	33
21	Production of lignocellulose nanofibers from wheat straw by different fibrillation methods. Comparison of its viability in cardboard recycling process. Journal of Cleaner Production, 2019, 239, 118083.	4.6	63
22	Nanocellulose-Based Inksâ€"Effect of Alginate Content on the Water Absorption of 3D Printed Constructs. Bioengineering, 2019, 6, 65.	1.6	37
23	PVA/(ligno)nanocellulose biocomposite films. Effect of residual lignin content on structural, mechanical, barrier and antioxidant properties. International Journal of Biological Macromolecules, 2019, 141, 197-206.	3.6	89
24	Lignin: A Biopolymer from Forestry Biomass for Biocomposites and 3D Printing. Materials, 2019, 12, 3006.	1.3	126
25	Alternative Raw Materials for Pulp and Paper Production in the Concept of a Lignocellulosic Biorefinery. , 2019, , .		13
26	Lignin-based hydrogels with â€œsuper-swellingâ€•capacities for dye removal. International Journal of Biological Macromolecules, 2018, 115, 1249-1259.	3.6	99
27	Recycled fibers for fluting production: The role of lignocellulosic micro/nanofibers of banana leaves. Journal of Cleaner Production, 2018, 172, 233-238.	4.6	17
28	Aqueous acetone fractionation of kraft, organosolv and soda lignins. International Journal of Biological Macromolecules, 2018, 106, 979-987.	3.6	150
29	Approaching a new generation of fiberboards taking advantage of self lignin as green adhesive. International Journal of Biological Macromolecules, 2018, 108, 927-935.	3.6	56
30	Different Solvents for Organosolv Pulping. , 2018, , .		15
31	Synthesis and Characterization of Lignin Hydrogels for Potential Applications as Drug Eluting Antimicrobial Coatings for Medical Materials. ACS Sustainable Chemistry and Engineering, 2018, 6, 9037-9046.	3.2	161
32	The suitability of banana leaf residue as raw material for the production of high lignin content micro/nano fibers: From residue to value-added products. Industrial Crops and Products, 2017, 99, 27-33.	2.5	48
33	The effect of pre-treatment on the production of lignocellulosic nanofibers and their application as a reinforcing agent in paper. Cellulose, 2017, 24, 2605-2618.	2.4	39
34	A comparative study of the suitability of different cereal straws for lignocellulose nanofibers isolation. International Journal of Biological Macromolecules, 2017, 103, 990-999.	3.6	76
35	Rapidly growing vegetables as new sources for lignocellulose nanofibre isolation: Physicochemical, thermal and rheological characterisation. Carbohydrate Polymers, 2017, 175, 27-37.	5.1	36
36	Evaluation of lignins from side-streams generated in an olive tree pruning-based biorefinery: Bioethanol production and alkaline pulping. International Journal of Biological Macromolecules, 2017, 105, 238-251.	3.6	46

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37	Isolation and characterization of lignins from wheat straw: Application as binder in lithium batteries. International Journal of Biological Macromolecules, 2017, 104, 909-918.	3.6	59
38	Isolation and Characterization of Gramineae and Fabaceae Soda Lignins. International Journal of Molecular Sciences, 2017, 18, 327.	1.8	48
39	Biorefinery Process Combining SpecelÂ® Process and Selective Lignin Precipitation using Mineral Acids. BioResources, 2016, 11, .	0.5	40
40	Biorefinery Scheme for Residual Biomass Using Autohydrolysis and Organosolv Stages for Oligomers and Bioethanol Production. Energy & Fuels, 2016, 30, 8236-8245.	2.5	23
41	Isolation and characterization of lignocellulose nanofibers from different wheat straw pulps. International Journal of Biological Macromolecules, 2016, 92, 1025-1033.	3.6	86
42	Suitability of wheat straw semichemical pulp for the fabrication of lignocellulosic nanofibres and their application to papermaking slurries. Cellulose, 2016, 23, 837-852.	2.4	103
43	Barley Straw (Hordeum vulgare) as a Supplementary Raw Material for Eucalyptus camaldulensis and Pinus sylvestris Kraft Pulp in the Paper Industry. BioResources, 2015, 10, .	0.5	9
44	Agricultural residue valorization using a hydrothermal process for second generation bioethanol and oligosaccharides production. Bioresource Technology, 2015, 191, 263-270.	4.8	46
45	Influence of temperature, time, liquid/solid ratio and sulfuric acid concentration on the hydrolysis of palm empty fruit bunches. Bioresource Technology, 2013, 129, 506-511.	4.8	11
46	Influence of the operational variables on the pulping and beating of the orange tree pruning. Industrial Crops and Products, 2013, 49, 785-789.	2.5	8
47	Acetosolv pulping for the fractionation of empty fruit bunches from palm oil industry. Bioresource Technology, 2013, 132, 115-120.	4.8	37
48	Refining of Soda-AQ, Kraft-AQ, and Ethanol Pulps from Orange Tree Wood. BioResources, 2013, 8, .	0.5	3
49	Valorization of residual Empty Palm Fruit Bunch Fibers (EPFBF) by microfluidization: Production of nanofibrillated cellulose and EPFBF nanopaper. Bioresource Technology, 2012, 125, 249-255.	4.8	190
50	Effect of residual lignin and heteropolysaccharides in nanofibrillar cellulose and nanopaper from wood fibers. Cellulose, 2012, 19, 2179-2193.	2.4	196
51	IMPROVEMENT OF TCF BLEACHING OF OLIVE TREE PRUNING RESIDUE PULP BY ADDITION OF A LACCASE AND/OR XYLANASE PRE-TREATMENT. BioResources, 2012, 7, .	0.5	10
52	Biobleaching of pulp from oil palm empty fruit bunches with laccase and xylanase. Bioresource Technology, 2012, 110, 371-378.	4.8	42
53	Biorefinery of olive pruning using various processes. Bioresource Technology, 2012, 111, 301-307.	4.8	27
54	TCF bleaching sequence in kraft pulping of olive tree pruning residues. Bioresource Technology, 2012, 117, 117-123.	4.8	19

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55	Valorization of residual woody biomass (Olea europaea trimmings) based on aqueous fractionation. Journal of Chemical Technology and Biotechnology, 2012, 87, 87-94.	1.6	19
56	Second-Generation Bioethanol from Residual Woody Biomass. Energy & Fuels, 2011, 25, 4803-4810.	2.5	23
57	Integrated utilization of the main components of Hesperaloe funifera. Biochemical Engineering Journal, 2011, 56, 130-136.	1.8	7
58	Milox fractionation of empty fruit bunches from Elaeis guineensis. Bioresource Technology, 2011, 102, 9755-9762.	4.8	15
59	Production of pulp and energy using orange tree prunings. Bioresource Technology, 2011, 102, 9330-9334.	4.8	26
60	Simulation of Hesperaloe funifera diethanolamine pulping by polynomial and neural fuzzy models. Chemical Engineering Research and Design, 2011, 89, 648-656.	2.7	8
61	Exploitation of hemicellulose, cellulose and lignin from Hesperaloe funifera. Bioresource Technology, 2011, 102, 1308-1315.	4.8	12
62	Feasibility of rice straw as a raw material for the production of soda cellulose pulp. Journal of Cleaner Production, 2010, 18, 1084-1091.	4.6	75
63	Use of Hesperaloe funifera for the production of paper and extraction of lignin for synthesis and fuel gases. Biomass and Bioenergy, 2010, 34, 1471-1480.	2.9	12
64	Soda pulp and fuel gases synthesis from Hesperaloe funifera. Bioresource Technology, 2010, 101, 7032-7040.	4.8	11
65	Integral valorization of tagasaste (Chamaecytisus proliferus) under hydrothermal and pulp processing. Bioresource Technology, 2010, 101, 7635-7640.	4.8	25
66	Valorization of Agricultural Residues by Fractionation of their Components. Open Agriculture Journal, 2010, 4, 125-134.	0.3	10
67	Pulp and paper from vine shoots: Neural fuzzy modeling of ethylene glycol pulping. Bioresource Technology, 2009, 100, 756-762.	4.8	19
68	TCF bleaching of soda-anthraquinone and diethanolamine pulp from oil palm empty fruit bunches. Bioresource Technology, 2009, 100, 1478-1481.	4.8	14
69	Soda-anthraquinone pulping of palm oil empty fruit bunches and beating of the resulting pulp. Bioresource Technology, 2009, 100, 1262-1267.	4.8	54
70	Influence of variables in the hydrothermal treatment of rice straw on the composition of the resulting fractions. Bioresource Technology, 2009, 100, 4863-4866.	4.8	35
71	Pulping of rice straw with high-boiling point organosolv solvents. Biochemical Engineering Journal, 2008, 42, 243-247.	1.8	46
72	Pulping of holm oak wood. Influence of the operating conditions. Bioresource Technology, 2008, 99, 819-823.	4.8	2

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73	Neural fuzzy model applied to ethylene-glycol pulping of non-wood raw materials. Bioresource Technology, 2008, 99, 965-974.	4.8	14
74	Use of high-boiling point organic solvents for pulping oil palm empty fruit bunches. Bioresource Technology, 2008, 99, 1743-1749.	4.8	67
75	Influence of the holm oak soda pulping conditions on the properties of the resulting paper sheets. Bioresource Technology, 2008, 99, 6320-6324.	4.8	3
76	Effect of organosolv and soda pulping processes on the metals content of non-woody pulps. Bioresource Technology, 2008, 99, 6621-6625.	4.8	34
77	Organosolv ethanolamine pulping of olive wood. Biochemical Engineering Journal, 2008, 39, 230-235.	1.8	20
78	Ethyleneglycol pulp from tagasaste. Bioresource Technology, 2008, 99, 2170-2176.	4.8	23
79	Rice straw pulp obtained by using various methods. Bioresource Technology, 2008, 99, 2881-2886.	4.8	151
80	Alternative raw materials and pulping process using clean technologies. Industrial Crops and Products, 2008, 28, 11-16.	2.5	70
81	Optimization of pulping conditions of abaca. An alternative raw material for producing cellulose pulp. Bioresource Technology, 2005, 96, 977-983.	4.8	37
82	Organosolv pulping of olive tree trimmings by use of ethylene glycol/soda/water mixtures. Holzforschung, 2004, 58, 122-128.	0.9	21
83	Use of Ethanolamineâ€“Sodaâ€“Water Mixtures for Pulping Olive Wood Trimmings. Chemical Engineering Research and Design, 2004, 82, 1037-1042.	2.7	13
84	Optimization of hydrogen peroxide in totally chlorine free bleaching of cellulose pulp from olive tree residues. Bioresource Technology, 2003, 87, 255-261.	4.8	37
85	Ethanolâ€“acetone pulping of wheat straw. Influence of the cooking and the beating of the pulps on the properties of the resulting paper sheets. Bioresource Technology, 2002, 83, 139-143.	4.8	43
86	Influence of ethanol pulping of wheat straw on the resulting paper sheets. Process Biochemistry, 2002, 37, 665-672.	1.8	23
87	Influence of process variables in the ethanol pulping of olive tree trimmings. Bioresource Technology, 2001, 78, 63-69.	4.8	36