Manuel Garcia-Perez

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

141 papers	6,435 citations	49 h-index	77 g-index
146 ext. papers	7,596 ext. citations	5.9 avg, IF	6.24 L-index

#	Paper	IF	Citations
141	Fast Pyrolysis of Oil Mallee Woody Biomass: Effect of Temperature on the Yield and Quality of Pyrolysis Products. *Industrial & Engineering Chemistry Research*, **2008**, 47, 1846-1854	3.9	278
140	Influence of feedstock source and pyrolysis temperature on biochar bulk and surface properties. *Biomass and Bioenergy*, **2016**, 84, 37-48	5.3	258
139	Effects of particle size on the fast pyrolysis of oil mallee woody biomass. *Fuel*, **2009**, 88, 1810-1817	7.1	254
138	Mallee wood fast pyrolysis: Effects of alkali and alkaline earth metallic species on the yield and composition of bio-oil. *Fuel*, **2011**, 90, 2915-2922	7.1	242
137	Effects of Temperature on the Formation of Lignin-Derived Oligomers during the Fast Pyrolysis of Mallee Woody Biomass. *Energy & Fuels*, **2008**, 22, 2022-2032	4.1	190
136	Structural analysis of char by Raman spectroscopy: Improving band assignments through computational calculations from first principles. *Carbon*, **2016**, 100, 678-692	10.4	182
135	Separation, hydrolysis and fermentation of pyrolytic sugars to produce ethanol and lipids. *Bioresource Technology*, **2010**, 101, 9688-99	11	169
134	Improving the deconvolution and interpretation of XPS spectra from chars by ab initio calculations. *Carbon*, **2016**, 110, 155-171	10.4	168
133	Effect of cellulose crystallinity on the formation of a liquid intermediate and on product distribution during pyrolysis. *Journal of Analytical and Applied Pyrolysis*, **2013**, 100, 56-66	6	150
132	Historical Developments of Pyrolysis Reactors: A Review. *Energy & Fuels*, **2017**, 31, 5751-5775	4.1	146
131	Fractional Condensation of Biomass Pyrolysis Vapors. *Energy & Fuels*, **2011**, 25, 1817-1829	4.1	135
130	Challenges and Opportunities for Bio-oil Refining: A Review. *Energy & Fuels*, **2019**, 33, 4683-4720	4.1	132
129	The role of biochar porosity and surface functionality in augmenting hydrologic properties of a sandy soil. *Science of the Total Environment*, **2017**, 574, 139-147	10.2	127
128	Deconvoluting the XPS spectra for nitrogen-doped chars: An analysis from first principles. *Carbon*, **2020**, 162, 528-544	10.4	95
127	DSC studies to evaluate the impact of bio-oil on cold flow properties and oxidation stability of bio-diesel. *Bioresource Technology*, **2010**, 101, 6219-24	11	95
126	Hydrotreatment of pyrolysis bio-oil: A review. *Fuel Processing Technology*, **2019**, 195, 106140	7.2	93
125	Recent developments in fast pyrolysis of ligno-cellulosic materials. *Current Opinion in Biotechnology* , **2013**, 24, 414-20	11.4	93

124	Yeast fermentation of carboxylic acids obtained from pyrolytic aqueous phases for lipid production. *Bioresource Technology*, **2012**, 118, 177-86	11	93
123	Production and fuel properties of fast pyrolysis oil/bio-diesel blends. *Fuel Processing Technology*, **2010**, 91, 296-305	7.2	92
122	Production and Fuel Properties of Pine Chip Bio-oil/Biodiesel Blends. *Energy & Fuels*, **2007**, 21, 2363-2372	4.1	91
121	Fermentation of levoglucosan with oleaginous yeasts for lipid production. *Bioresource Technology*, **2013**, 133, 183-9	11	88
120	Pyrolysis Oil Multiphase Behavior and Phase Stability: A Review. *Energy & Fuels*, **2016**, 30, 6179-6200	4.1	86
119	Effect of pyrolysis temperature on the yield and properties of bio-oils obtained from the auger pyrolysis of Douglas Fir wood. *Journal of Analytical and Applied Pyrolysis*, **2012**, 93, 52-62	6	86
118	Economic tradeoff between biochar and bio-oil production via pyrolysis. *Biomass and Bioenergy*, **2011**, 35, 1851-1862	5.3	86
117	Colloidal Properties of Bio-oils Obtained by Vacuum Pyrolysis of Softwood Bark. Characterization of Water-Soluble and Water-Insoluble Fractions. *Energy & Fuels*, **2004**, 18, 704-712	4.1	84
116	Simultaneous catalytic esterification of carboxylic acids and acetalisation of aldehydes in a fast pyrolysis bio-oil from mallee biomass. *Fuel*, **2011**, 90, 2530-2537	7.1	83
115	Colloidal Properties of Bio-Oils Obtained by Vacuum Pyrolysis of Softwood Bark. Storage Stability. *Energy & Fuels*, **2004**, 18, 188-201	4.1	79
114	Evolution of palm oil mills into bio-refineries: Literature review on current and potential uses of residual biomass and effluents. *Resources, Conservation and Recycling*, **2016**, 110, 99-114	11.9	79
113	Two-step microalgal biodiesel production using acidic catalyst generated from pyrolysis-derived bio-char. *Energy Conversion and Management*, **2015**, 105, 1389-1396	10.6	74
112	Modification of biochar surface by air oxidation: Role of pyrolysis temperature. *Biomass and Bioenergy*, **2016**, 85, 1-11	5.3	74
111	Hydrothermal catalytic deoxygenation of palmitic acid over nickel catalyst. *Fuel*, **2016**, 166, 302-308	7.1	73
110	Cellulose-Lignin interactions during slow and fast pyrolysis. *Journal of Analytical and Applied Pyrolysis*, **2015**, 114, 197-207	6	71
109	Controlling the Phase Stability of Biomass Fast Pyrolysis Bio-oils. *Energy & Fuels*, **2015**, 29, 4373-4381	4.1	71
108	Effect of pretreatment temperature on the yield and properties of bio-oils obtained from the auger pyrolysis of Douglas fir wood. *Fuel*, **2013**, 103, 672-682	7.1	70
107	Quantification of Bio-Oil Functional Groups and Evidences of the Presence of Pyrolytic Humins. *Energy & Fuels*, **2016**, 30, 6505-6524	4.1	70

106	Stepwise Fast Pyrolysis of Pine Wood. *Energy & Fuels*, **2012**, 26, 7263-7273	4.1	66
105	Effect of the Fast Pyrolysis Temperature on the Primary and Secondary Products of Lignin. *Energy & Fuels*, **2013**, 27, 5867-5877	4.1	65
104	Effect of sulfuric acid concentration on the yield and properties of the bio-oils obtained from the auger and fast pyrolysis of Douglas Fir. *Fuel*, **2013**, 104, 536-546	7.1	65
103	Effect of temperature during wood torrefaction on the formation of lignin liquid intermediates. *Journal of Analytical and Applied Pyrolysis*, **2014**, 109, 222-233	6	62
102	Impact of combined acid washing and acid impregnation on the pyrolysis of Douglas fir wood. *Journal of Analytical and Applied Pyrolysis*, **2015**, 114, 127-137	6	60
101	Slow and fast pyrolysis of Douglas-fir lignin: Importance of liquid-intermediate formation on the distribution of products. *Biomass and Bioenergy*, **2014**, 66, 398-409	5.3	60
100	Colloidal Properties of Bio-oils Obtained by Vacuum Pyrolysis of Softwood Bark: Aging and Thermal Stability. *Energy & Fuels*, **2004**, 18, 1535-1542	4.1	60
99	Characterization of the Water-Soluble Fraction of Woody Biomass Pyrolysis Oils. *Energy & Fuels*, **2017**, 31, 1650-1664	4.1	56
98	Secondary Vapor Phase Reactions of Lignin-Derived Oligomers Obtained by Fast Pyrolysis of Pine Wood. *Energy & Fuels*, **2013**, 27, 1428-1438	4.1	54
97	Progress in understanding the four dominant intra-particle phenomena of lignocellulose pyrolysis: chemical reactions, heat transfer, mass transfer, and phase change. *Green Chemistry*, **2019**, 21, 2868-2898	10	51
96	Production and characterization of bio-oil and biochar from the pyrolysis of residual bacterial biomass from a polyhydroxyalkanoate production process. *Journal of Analytical and Applied Pyrolysis*, **2015**, 115, 268-278	6	50
95	Chemical and morphological evaluation of chars produced from primary biomass constituents: Cellulose, xylan, and lignin. *Biomass and Bioenergy*, **2017**, 104, 17-35	5.3	49
94	Effect of Cellulose Crystallinity on Solid/Liquid Phase Reactions Responsible for the Formation of Carbonaceous Residues during Pyrolysis. *Industrial & Engineering Chemistry Research*, **2014**, 53, 2940-2955	3.9	49
93	Corrosion of Metals by Bio-Oil Obtained by Vacuum Pyrolysis of Softwood Bark Residues. An X-ray Photoelectron Spectroscopy and Auger Electron Spectroscopy Study. *Energy & Fuels*, **2004**, 18, 1291-1301	4.1	49
92	Evaluation of alternatives for the evolution of palm oil mills into biorefineries. *Biomass and Bioenergy*, **2016**, 95, 310-329	5.3	49
91	Effect of sulfuric acid on the pyrolysis of Douglas fir and hybrid poplar wood: Py-GC/MS and TG studies. *Journal of Analytical and Applied Pyrolysis*, **2013**, 104, 117-130	6	45
90	The Alcohol-to-Jet Conversion Pathway for Drop-In Biofuels: Techno-Economic Evaluation. *ChemSusChem*, **2018**, 11, 3728-3741	8.3	45
89	Py-GC/MS studies and principal component analysis to evaluate the impact of feedstock and temperature on the distribution of products during fast pyrolysis. *Journal of Analytical and Applied Pyrolysis*, **2014**, 109, 140-151	6	44

88	Fast pyrolysis of biomass: A review of relevant aspects. Part I: Parametric study. *DYNA (Colombia)*, **2015**, 82, 239-248	0.6	42
87	Review of Biomass Resources and Conversion Technologies for Alternative Jet Fuel Production in Hawai□and Tropical Regions. *Energy & Fuels*, **2019**, 33, 2699-2762	4.1	41
86	Thermochemical conversion of sugarcane bagasse by fast pyrolysis: High yield of levoglucosan production. *Journal of Analytical and Applied Pyrolysis*, **2018**, 133, 246-253	6	38
85	Effect of sulfuric acid addition on the yield and composition of lignin derived oligomers obtained by the auger and fast pyrolysis of Douglas-fir wood. *Fuel*, **2013**, 103, 512-523	7.1	38
84	Effect of temperature and heating rate on product distribution from the pyrolysis of sugarcane bagasse in a hot plate reactor. *Journal of Analytical and Applied Pyrolysis*, **2017**, 123, 347-363	6	36
83	Effect of acid additives on sugarcane bagasse pyrolysis: Production of high yields of sugars. *Bioresource Technology*, **2017**, 223, 74-83	11	36
82	Micro-explosion of liquid intermediates during the fast pyrolysis of sucrose and organosolv lignin. *Journal of Analytical and Applied Pyrolysis*, **2016**, 122, 106-121	6	35
81	Polymerization and cracking during the hydrotreatment of bio-oil and heavy fractions obtained by fractional condensation using Ru/C and NiMo/Al2O3 catalyst. *Journal of Analytical and Applied Pyrolysis*, **2016**, 118, 136-143	6	35
80	Pyrolysis Gas Chromatography Mass Spectrometry Studies to Evaluate High-Temperature Aqueous Pretreatment as a Way to Modify the Composition of Bio-Oil from Fast Pyrolysis of Wheat Straw. *Energy & Fuels*, **2009**, 23, 6242-6252	4.1	35
79	Chemical Composition and Fuel Properties of Alternative Jet Fuels. *BioResources*, **2018**, 13,	1.3	29
78	Effect of particle size on the composition of lignin derived oligomers obtained by fast pyrolysis of beech wood. *Fuel*, **2014**, 125, 15-19	7.1	28
77	Characteristics and mechanisms of phosphorous adsorption by rape straw-derived biochar functionalized with calcium from eggshell. *Bioresource Technology*, **2020**, 318, 124063	11	28
76	Hydrothermal Catalytic Deoxygenation of Fatty Acid and Bio-oil with In Situ H2. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 4521-4530	8.3	27
75	Engineering levoglucosan metabolic pathway in Rhodococcus jostii RHA1 for lipid production. *Journal of Industrial Microbiology and Biotechnology*, **2016**, 43, 1551-1560	4.2	27
74	Quantification of strong and weak acidities in bio-oil via non-aqueous potentiometric titration. *Fuel*, **2014**, 115, 652-657	7.1	26
73	Nitrogen doped char from anaerobically digested fiber for phosphate removal in aqueous solutions. *Chemosphere*, **2020**, 240, 124889	8.4	26
72	Quantitative Effects of Biochar Oxidation and Pyrolysis Temperature on the Transport of Pathogenic and Nonpathogenic Escherichia coli in Biochar-Amended Sand Columns. *Environmental Science & Technology*, **2017**, 51, 5071-5081	10.3	24
71	Synergistic effect of Mo□N carbides on selective hydrodeoxygenation of guaiacol to oxygen-free aromatic hydrocarbons. *Catalysis Science and Technology*, **2019**, 9, 1387-1397	5.5	23

70	Effect of a Vacuum on the Fast Pyrolysis of Cellulose: Nature of Secondary Reactions in a Liquid Intermediate. *Industrial & Engineering Chemistry Research*, **2017**, 56, 4288-4301	3.9	22
69	Effect of Pyrolysis Temperature and Sulfuric Acid During the Fast Pyrolysis of Cellulose and Douglas Fir in an Atmospheric Pressure Wire Mesh Reactor. *Energy & Fuels*, **2014**, 28, 5167-5177	4.1	22
68	A Review on Lignin Liquefaction: Advanced Characterization of Structure and Microkinetic Modeling. *Industrial & Engineering Chemistry Research*, **2020**, 59, 526-555	3.9	22
67	TG-FTIR Method for the Characterization of Bio-oils in Chemical Families. *Energy & Fuels*, **2017**, 31, 1689-1701	4.1	21
66	Acid-catalysed treatment of the mallee leaf bio-oil with methanol: Effects of molecular structure of carboxylic acids and esters on their conversion. *Fuel Processing Technology*, **2013**, 106, 569-576	7.2	21
65	Microstructural analysis of nitrogen-doped char by Raman spectroscopy: Raman shift analysis from first principles. *Carbon*, **2020**, 167, 559-574	10.4	20
64	Co-hydrotreatment of tire pyrolysis oil and vegetable oil for the production of transportation fuels. *Fuel Processing Technology*, **2017**, 159, 328-339	7.2	19
63	Bioslurry as a Fuel. 7: Spray Characteristics of Bio-Oil and Bioslurry via Impact and Twin-Fluid Atomizers. *Energy & Fuels*, **2015**, 29, 8058-8065	4.1	19
62	Production and characterization of H2S and PO43□carbonaceous adsorbents from anaerobic digested fibers. *Biomass and Bioenergy*, **2019**, 120, 339-349	5.3	19
61	Identification of the fractions responsible for morphology conservation in lignocellulosic pyrolysis: Visualization studies of sugarcane bagasse and its pseudo-components. *Journal of Analytical and Applied Pyrolysis*, **2017**, 123, 307-318	6	18
60	Single particle model for biomass pyrolysis with bubble formation dynamics inside the liquid intermediate and its contribution to aerosol formation by thermal ejection. *Journal of Analytical and Applied Pyrolysis*, **2017**, 124, 204-218	6	18
59	Effect of Pressure on Pyrolysis of Milled Wood Lignin and Acid-Washed Hybrid Poplar Wood. *Industrial & Engineering Chemistry Research*, **2017**, 56, 9079-9089	3.9	17
58	Characterization of solid and vapor products from thermochemical conversion of municipal solid waste woody fractions. *Waste Management*, **2019**, 84, 277-285	8.6	17
57	Effect of pyrolysis temperature on aromatic cluster size of cellulose char by quantitative multi cross-polarization 13C NMR with long range dipolar dephasing. *Carbon*, **2017**, 116, 210-222	10.4	16
56	Selective esterification to produce microalgal biodiesel and enrich polyunsaturated fatty acid using zeolite as a catalyst. *RSC Advances*, **2015**, 5, 84894-84900	3.7	16
55	Anaerobic digestion of C1□4 light oxygenated organic compounds derived from the torrefaction of lignocellulosic materials. *Fuel Processing Technology*, **2015**, 131, 150-158	7.2	16
54	Evolution of Functional Groups during Pyrolysis Oil Upgrading. *Energy & Fuels*, **2017**, 31, 8300-8316	4.1	16
53	Enhancing cation exchange capacity of chars through ozonation. *Biomass and Bioenergy*, **2015**, 81, 304-314	5.3	15

52	Abundance and characteristics of lignin liquid intermediates in wood (Pinus ponderosa Dougl. ex Laws.) during hot water extraction. *Biomass and Bioenergy*, **2015**, 81, 117-128	5.3	15
51	Novel Strategy To Analyze Fourier Transform Ion Cyclotron Resonance Mass Spectrometry Data of Biomass Pyrolysis Oil for Oligomeric Structure Assignment. *Energy & Fuels*, **2020**, 34, 8466-8481	4.1	15
50	Estimation of Heat Transfer Coefficients for Biomass Particles by Direct Numerical Simulation Using Microstructured Particle Models in the Laminar Regime. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 1046-1053	8.3	14
49	Modified Pyroprobe Captive Sample Reactor: Characterization of Reactor and Cellulose Pyrolysis at Vacuum and Atmospheric Pressures. *Industrial & Engineering Chemistry Research*, **2017**, 56, 5185-5200	3.9	14
48	Pyrolysis of Lignocellulosic Biomass **2015**, 413-442		14
47	Charcoal from anaerobically digested dairy fiber for removal of hydrogen sulfide within biogas. *Waste Management*, **2018**, 76, 374-382	8.6	14
46	Strategic assessment of sustainable aviation fuel production technologies: Yield improvement and cost reduction opportunities. *Biomass and Bioenergy*, **2021**, 145, 105942	5.3	13
45	Thermodynamic stability of nitrogen functionalities and defects in graphene and graphene nanoribbons from first principles. *Carbon*, **2019**, 152, 715-726	10.4	11
44	Contributions to Lignomics: Stochastic Generation of Oligomeric Lignin Structures for Interpretation of MALDI-FT-ICR-MS Results. *ChemSusChem*, **2020**, 13, 4428-4445	8.3	10
43	Torrefaction of Fast-Growing Colombian Wood Species. *Waste and Biomass Valorization*, **2019**, 10, 1655-1667	3.2	10
42	Bio-Oil Hydrotreatment for Enhancing Solubility in Biodiesel and the Oxydation Stability of Resulting Blends. *Frontiers in Chemistry*, **2018**, 6, 83	5	9
41	Unsupported transition metal-catalyzed hydrodeoxygenation of guaiacol. *Catalysis Communications* , **2017**, 101, 71-76	3.2	9
40	Pulp mill integration with alcohol-to-jet conversion technology. *Fuel Processing Technology*, **2020**, 201, 106338	7.2	8
39	Methodology for estimation of thermal ejection droplet size distribution and intensity during the pyrolysis of sugarcane bagasse and model compounds. *Journal of Analytical and Applied Pyrolysis*, **2017**, 125, 69-82	6	8
38	Biomass supply chain equipment for renewable fuels production: A review. *Biomass and Bioenergy*, **2021**, 148, 106054	5.3	8
37	Vacuum Pyrolysis of Hybrid Poplar Milled Wood Lignin with Fourier Transform-Ion Cyclotron Resonance Mass Spectrometry Analysis of Feedstock and Products for the Elucidation of Reaction Mechanisms. *Energy & Fuels*, **2020**, 34, 14249-14263	4.1	7
36	Investigation of the Antibacterial Activity and Subacute Toxicity of a Quercus crassifolia Polyphenolic Bark Extract for its Potential Use in Functional Foods. *Journal of Food Science*, **2019**, 84, 1692-1702	3.4	6
35	Biomethane Production from Pyrolytic Aqueous Phase: Biomass Acid Washing and Condensation Temperature Effect on the Bio-oil and Aqueous Phase Composition. *Bioenergy Research*, **2020**, 13, 878-886	3.1	6

34	Pyrolysis of lignocellulosic biomass: oil, char, and gas **2020**, 581-619		6
33	Rheological properties and tunable thermoplasticity of phenolic rich fraction of pyrolysis bio-oil. *Biomacromolecules*, **2013**, 14, 1132-9	6.9	6
32	Evaluation of dry corn ethanol bio-refinery concepts for the production of sustainable aviation fuel. *Biomass and Bioenergy*, **2021**, 146, 105937	5.3	6
31	Application of nitrogen-based blowing agents as an additive in pyrolysis of cellulose. *Journal of Analytical and Applied Pyrolysis*, **2019**, 137, 203-211	6	6
30	Lignin Depolymerization: A Comparison of Methods to Analyze Monomers and Oligomers. *ChemSusChem*, **2020**, 13, 4633-4648	8.3	5
29	Effect of torrefaction temperature on properties of Patula pine. *Maderas: Ciencia Y Tecnologia*, **2017**, 0-0	1	5
28	Bed Agglomeration during the Steam Gasification of a High-Lignin Corn Stover Simultaneous Saccharification and Fermentation (SSF) Digester Residue. *Energy & Fuels*, **2015**, 29, 8035-8046	4.1	5
27	Thermal pretreatment of a high lignin SSF digester residue to increase its softening point. *Journal of Analytical and Applied Pyrolysis*, **2019**, 142, 103691	6	5
26	Synthesis and Techno-Economic Analysis of Pyrolysis-Oil-Based Biorefineries Using P-Graph. *Energy & Fuels*, **2021**, 35, 13159-13169	4.1	5
25	Identification and quantification of trace oxygenated compounds in alternative jet fuels: Fluorescence methods for fast detection of phenolic compounds in operational field conditions. *Fuel*, **2020**, 271, 117652	7.1	4
24	Interrelationship between lignin-rich dichloromethane extracts of hot water-treated wood fibers and high-density polyethylene (HDPE) in wood plastic composite (WPC) production. *Holzforschung*, **2016**, 70, 31-38	2	4
23	Biofuel and Methyl Levulinate from Biomass-Derived Fractional Condensed Pyrolysis Oil and Alcohol. *Energy Technology*, **2017**, 5, 205-215	3.5	4
22	Hot Water Extraction of Anaerobic Digested Dairy Fiber for Wood Plastic Composite Manufacturing. *BioResources*, **2016**, 11,	1.3	4
21	Co-hydrotreatment of the Bio-oil Lignin-Rich Fraction and Vegetable Oil. *Energy & Fuels*, **2020**, 34, 516-529	4.1	4
20	Ternary Phase Diagram of Water/Bio-Oil/Organic Solvent for Bio-Oil Fractionation. *Energy & Fuels*, **2020**, 34, 16250-16264	4.1	4
19	Steam gasification of a thermally pretreated high lignin corn stover simultaneous saccharification and fermentation digester residue. *Energy*, **2017**, 119, 400-407	7.9	3
18	Integrated Process of Biomass Thermochemical Conversion to Obtain Pyrolytic Sugars for Biofuels and Bioproducts **2020**, 285-311		3
17	Ozonation of Pyrolytic Aqueous Phase: Changes in the Content of Phenolic Compounds and Color. *Chemical Engineering and Technology*, **2016**, 39, 1828-1834	2	3

16	Pyrolytic oils from Amphipterygium adstringens bark inhibit IL-8 production of IL-17-stimulated HaCaT keratinocytes. *Journal of Analytical and Applied Pyrolysis*, **2020**, 145, 104749	6	3
15	Supply chain configuration of sustainable aviation fuel: Review, challenges, and pathways for including environmental and social benefits. *Renewable and Sustainable Energy Reviews*, **2021**, 152, 111680	16.2	3
14	Nitrogen-doped char as a catalyst for wet oxidation of phenol-contaminated water. *Biomass Conversion and Biorefinery*,1	2.3	2
13	Advanced Oxidative Techniques for the Treatment of Aqueous Liquid Effluents from Biomass Thermochemical Conversion Processes: A Review. *Energy & Fuels*, **2022**, 36, 60-79	4.1	2
12	Production of Sustainable Aviation Fuels in Petroleum Refineries: Evaluation of New Bio-Refinery Concepts. *Frontiers in Energy Research*, **2021**, 9,	3.8	1
11	Sustainability, Business Models, and Techno-Economic Analysis of Biomass Pyrolysis Technologies **2015**, 298-342		1
10	Valorization of municipal solid waste in biorefineries for the creation of a circular economy **2020**, 323-347		1
9	Nitrogen and magnesium Co-doped biochar for phosphate adsorption. *Biomass Conversion and Biorefinery*,1	2.3	1
8	Microbial lipid biosynthesis from lignocellulosic biomass pyrolysis products. *Biotechnology Advances* , **2021**, 107791	17.8	1
7	A novel elemental composition based prediction model for biochar aromaticity derived from machine learning. *Artificial Intelligence in Agriculture*, **2021**, 5, 133-141	7.8	1
6	Wet oxidation of thermochemical aqueous effluent utilizing char catalysts in microreactors. *Journal of Cleaner Production*, **2022**, 351, 131222	10.3	1
5	Evaluation of bio-refinery alternatives to produce sustainable aviation fuels in a sugarcane mill. *Fuel*, **2022**, 321, 123992	7.1	0
4	Biomass carbonization technologies **2022**, 39-92		0
3	Biorefinery Processing of Waste to Supply Cost-Effective and Sustainable Inputs for Two-Stage Microalgal Cultivation. *Applied Sciences (Switzerland)*, **2022**, 12, 1485	2.6	
2	Sustainability, Business Models, and Techno-Economic Analysis of Biomass Pyrolysis Technologies **2020**, 1339-1373		
1	Novel Amorphous Carbons for the Adsorption of Phosphate: Part I. Elucidation of Chemical Structure of N-Metal-Doped Chars.. *ACS Omega*, **2022**, 7, 14490-14504	3.9	