Chamseddine Guizani

List of Publications by Year
in descending order

39 papers	1,909 citations	331670 21 h-index	302126 39 g-index
40 all docs	40 docs citations	40 times ranked	2329 citing authors

#	Article	IF	Citations
1	New insights on the structural evolution of biomass char upon pyrolysis as revealed by the Raman spectroscopy and elemental analysis. Carbon, 2017, 119, 519-521.	10.3	203
2	The gasification reactivity of high-heating-rate chars in single and mixed atmospheres of H2O and CO2. Fuel, 2013, 108, 812-823.	6.4	137
3	Utilization of Torrefied Coffee Grounds as Reinforcing Agent To Produce High-Quality Biodegradable PBAT Composites for Food Packaging Applications. ACS Sustainable Chemistry and Engineering, 2017, 5, 1906-1916.	6.7	132
4	Effects of CO2 on biomass fast pyrolysis: Reaction rate, gas yields and char reactive properties. Fuel, 2014, 116, 310-320.	6.4	129
5	Biomass char gasification by H2O, CO2 and their mixture: Evolution of chemical, textural and structural properties of the chars. Energy, 2016, 112, 133-145.	8.8	128
6	Biomass Chars: The Effects of Pyrolysis Conditions on Their Morphology, Structure, Chemical Properties and Reactivity. Energies, 2017, 10, 796.	3.1	128
7	Thermogravimetric study on the influence of structural, textural and chemical properties of biomass chars on CO2 gasification reactivity. Energy, 2015, 88, 703-710.	8.8	119
8	Sustainable biodegradable coffee grounds filler and its effect on the hydrophobicity, mechanical and thermal properties of biodegradable PBAT composites. Journal of Applied Polymer Science, 2017, 134, .	2.6	109
9	Analysis and comparison of bio-oils obtained by hydrothermal liquefaction and fast pyrolysis of beech wood. Fuel, 2016, 174, 180-188.	6.4	98
10	Influence of temperature and particle size on the single and mixed atmosphere gasification of biomass char with H 2 O and CO 2. Fuel Processing Technology, 2015, 134, 175-188.	7.2	63
11	Biocarbons from microfibrillated cellulose/lignosulfonate precursors: A study of electrical conductivity development during slow pyrolysis. Carbon, 2018, 129, 357-366.	10.3	63
12	Combined NMR structural characterization and thermogravimetric analyses for the assessment of the AAEM effect during lignocellulosic biomass pyrolysis. Energy, 2017, 134, 10-23.	8.8	61
13	Biomass fast pyrolysis in a drop tube reactor for bio oil production: Experiments and modeling. Fuel, 2017, 207, 71-84.	6.4	51
14	Combustion characteristics and kinetics of torrefied olive pomace. Energy, 2016, 107, 453-463.	8.8	49
15	Recycling of Superbase-Based Ionic Liquid Solvents for the Production of Textile-Grade Regenerated Cellulose Fibers in the Lyocell Process. ACS Sustainable Chemistry and Engineering, 2020, 8, 14217-14227.	6.7	49
16	Cellulose-lignin composite fibres as precursors for carbon fibres. Part 1 â€“ Manufacturing and properties of precursor fibres. Carbohydrate Polymers, 2021, 252, 117133.	10.2	38
17	Pyrolysis of Olive Pomace: Degradation Kinetics, Gaseous Analysis and Char Characterization. Waste and Biomass Valorization, 2017, 8, 1689-1697.	3.4	35
18	Fast pyrolysis and steam gasification of pellets prepared from olive oil mill residues. Energy, 2018, 150, 61-68.	8.8	35

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19	Close Packing of Cellulose and Chitosan in Regenerated Cellulose Fibers Improves Carbon Yield and Structural Properties of Respective Carbon Fibers. Biomacromolecules, 2020, 21, 4326-4335.	5.4	30
20	Superbase-based protic ionic liquids for cellulose filament spinning. Cellulose, 2021, 28, 533-547.	4.9	25
21	Thermal characterization and kinetic analysis of microfibrillated cellulose/lignosulfonate blends. Journal of Analytical and Applied Pyrolysis, 2017, 124, 25-34.	5.5	22
22	The nature of the deposited carbon at methane cracking over a nickel loaded wood-char. Comptes Rendus Chimie, 2016, 19, 423-432.	0.5	21
23	Gasification of woody biomass under high heating rate conditions inÂpure CO2: Experiments and modelling. Biomass and Bioenergy, 2015, 83, 169-182.	5.7	20
24	Use of lignocellulosic materials and 3D printing for the development of structured monolithic carbon materials. Composites Part B: Engineering, 2018, 149, 206-215.	12.0	20
25	The relationship between mineral contents, particle matter and bottom ash distribution during pellet combustion: molar balance and chemometric analysis. Environmental Science and Pollution Research, 2017, 24, 9927-9939.	5.3	16
26	The Heat Treatment Severity Index: A new metric correlated to the properties of biochars obtained from entrained flow pyrolysis of biomass. Fuel, 2019, 244, 61-68.	6.4	16
27	Evolution of carbon nanostructure during pyrolysis of homogeneous chitosan-cellulose composite fibers. Carbon, 2021, 185, 27-38.	10.3	16
28	Air gap spinning of a cellulose solution in [<scp>DBNH</scp>][<scp>OAc</scp>] ionic liquid with a novel vertically arranged spinning bath to simulate a closed loop operation in the IoncellÂ® process. Journal of Applied Polymer Science, 2021, 138, 49787.	2.6	16
29	Limitations of Cellulose Dissolution and Fiber Spinning in the Lyocell Process Using [mTBDH][OAc] and [DBNH][OAc] Solvents. Industrial & Engineering Chemistry Research, 2020, 59, 20211-20220.	3.7	13
30	New insights into the air gap conditioning effects during the dry-jet wet spinning of an ionic liquid-cellulose solution. Cellulose, 2020, 27, 4931-4948.	4.9	13
31	Hydrophobization of the Man-Made Cellulosic Fibers by Incorporating Plant-Derived Hydrophobic Compounds. ACS Sustainable Chemistry and Engineering, 2021, 9, 4915-4925.	6.7	13
32	Controlling the Molecular Weight of Lignosulfonates by an Alkaline Oxidative Treatment at Moderate Temperatures and Atmospheric Pressure: A Size-Exclusion and Reverse-Phase Chromatography Study. International Journal of Molecular Sciences, 2017, 18, 2520.	4.1	9
33	The effects of textural modifications on beech wood-char gasification rate under alternate atmospheres of CO 2 and H 2 O. Fuel Processing Technology, 2015, 138, 687-694.	7.2	8
34	Wide-angle X-ray scattering combined with pair distribution function analysis of pyrolyzed wood. Journal of Applied Crystallography, 2019, 52, 60-71.	4.5	8
35	Fast and quantitative compositional analysis of hybrid cellulose-based regenerated fibers using thermogravimetric analysis and chemometrics. Cellulose, 2021, 28, 6797-6812.	4.9	6
36	Spinneret geometry modulates the mechanical properties of man-made cellulose fibers. Cellulose, 2021, 28, 11165-11181.	4.9	4

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37	Quantitative Raman spectroscopy for the Ioncellâ„¢ process. Part 1: comparison of univariate and multivariate calibration methods for the quantification of water and protic ionic liquid components. Cellulose, 2020, 27, 157-170.	4.9	2
38	Quantitative Raman spectroscopy for the IoncellÂ® process: Part 2â€"quantification of ionic liquid degradation products and improvement of prediction performance through interval PLS. Cellulose, 2020, 27, 9813-9824.	4.9	1
39	Pyro-gasification of thin wood-chips in pure CO<inf>2</inf>: Experiments and modelling. , 2014, , .		0