Claire Mayer-Laigle

List of Publications by Year
in descending order

35 papers	653 citations	687363 13 h-index	580821 25 g-index
36 all docs	36 docs citations	36 times ranked	795 citing authors

#	Article	IF	Citations
1	Friability of Maize Shoot (Zea mays L.) in Relation to Cell Wall Composition and Physical Properties. Agriculture (Switzerland), 2022, 12, 951.	3.1	1
2	Comparative comminution efficiencies of rotary, stirred and vibrating ball-mills for the production of ultrafine biomass powders. Energy, 2021, 227, 120508.	8.8	15
3	Flax shives-PBAT processing into 3D printed fluorescent materials with potential sensor functionalities. Industrial Crops and Products, 2021, 167, 113482.	5.2	6
4	Preserving the Cellular Tissue Structure of Maize Pith Though Dry Fractionation Processes: A Key Point to Use as Insulating Agro-Materials. Materials, 2021, 14, 5350.	2.9	4
5	Scale-up in TurbulaÂ® mixers based on the principle of similarities. Particulate Science and Technology, 2020, 38, 973-984.	2.1	4
6	Unravelling the consequences of ultra-fine milling on physical and chemical characteristics of flax fibres. Powder Technology, 2020, 360, 129-140.	4.2	12
7	Evolution of grinding energy and particle size during dry ball-milling of silica sand. Powder Technology, 2020, 376, 661-667.	4.2	18
8	Grape stalk: a first attempt to disentangle its fibres via electrostatic separation. Food and Bioproducts Processing, 2020, 124, 455-468.	3.6	7
9	Milling itineraries dataset for a collection of crop and wood by-products and granulometric properties of the resulting powders. Data in Brief, 2020, 33, 106430.	1.0	10
10	Determinant morphological features of flax plant products and their contribution in injection moulded composite reinforcement. Composites Part C: Open Access, 2020, 3, 100054.	3.2	2
11	The potential of flax shives as reinforcements for injection moulded polypropylene composites. Industrial Crops and Products, 2020, 148, 112324.	5.2	27
12	Influence of Rice Husk and Wood Biomass Properties on the Manufacture of Filaments for Fused Deposition Modeling. Frontiers in Chemistry, 2019, 7, 735.	3.6	47
13	About the frontier between filling and reinforcement by fine flax particles in plant fibre composites. Industrial Crops and Products, 2019, 141, 111774.	5.2	10
14	Exploring mechanical properties of fully compostable flax reinforced composite filaments for 3D printing applications. Industrial Crops and Products, 2019, 135, 246-250.	5.2	52
15	Fine Comminution of Pine Bark: How Does Mechanical Loading Influence Particles Properties and Milling Efficiency?. Bioengineering, 2019, 6, 102.	3.5	11
16	Study of Two-Stage-Type Electrostatic Precipitator in Axisymmetric Configuration Applied to Finely Ground Lignocellulosic Materials. IEEE Transactions on Industry Applications, 2019, 55, 3114-3121.	4.9	0
17	Dry fractionation of olive pomace as a sustainable process to produce fillers for biocomposites. Powder Technology, 2018, 326, 44-53.	4.2	29
18	DRY biorefineries: Multiscale modeling studies and innovative processing. Innovative Food Science and Emerging Technologies, 2018, 46, 131-139.	5.6	21

#	Article	IF	Citations
19	Comminution of Dry Lignocellulosic Biomass, a Review: Part I. From Fundamental Mechanisms to Milling Behaviour. Bioengineering, 2018, 5, 41.	3.5	45
20	Comminution of Dry Lignocellulosic Biomass: Part II. Technologies, Improvement of Milling Performances, and Security Issues. Bioengineering, 2018, 5, 50.	3.5	43
21	Sorting natural fibres: A way to better understand the role of fibre size polydispersity on the mechanical properties of biocomposites. Composites Part A: Applied Science and Manufacturing, 2017, 95, 12-21.	7.6	26
22	Elastic properties of packing of granulated cork: Effect of particle size. Industrial Crops and Products, 2017, 99, 126-134.	5.2	16
23	Study of two-stage-type electrostatic precipitator in axisymmetric configuration applied to finely ground lignocellulosic materials. , 2017, , .		1
24	An innovative device for powders classification based on combined aerodynamic and electrostatic separation of particles. EPJ Web of Conferences, 2017, 140, 16005.	0.3	0
25	Electrostatic separation of mineral and vegetal powders with a custom built corona separator: application to biorefinery of rice husk. EPJ Web of Conferences, 2017, 140, 13020.	0.3	2
26	Deconvolution of grading curves during milling: example of wheat straw. EPJ Web of Conferences, 2017, 140, 13019.	0.3	1
27	Peridynamics simulation of the comminution of particles containing microcraks. EPJ Web of Conferences, 2017, 140, 07018.	0.3	2
28	Douglas bark dry fractionation for polyphenols isolation: From forestry waste to added value products. Industrial Crops and Products, 2016, 86, 12-15.	5.2	18
29	Mineralâ€“vegetal co-milling: An effective process to improve lignocellulosic biomass fine milling and to increase interweaving between mixed particles. Bioresource Technology, 2015, 192, 703-710.	9.6	7
30	Mixing dynamics for easy flowing powders in a lab scale Turbula Â® mixer. Chemical Engineering Research and Design, 2015, 95, 248-261.	5.6	29
31	Mechanical pretreatments of lignocellulosic biomass: towards facile and environmentally sound technologies for biofuels production. RSC Advances, 2014, 4, 48109-48127.	3.6	180
32	A 2D autocorrelation method for assessing mixture homogeneity as applied to bipolar plates in fuel cell technology. Advanced Powder Technology, 2011, 22, 167-173.	4.1	2
33	Breakage of flawed particles by peridynamic simulations. Computational Particle Mechanics, 0, , 1.	3.0	4
34	Properties of biomass powders resulting from the fine comminution of lignocellulosic feedstocks by three types of ball-mill set-up. Open Research Europe, 0, 1, 125.	2.0	1
35	Properties of biomass powders resulting from the fine comminution of lignocellulosic feedstocks by three types of ball-mill set-up. Open Research Europe, 0, 1, 125.	2.0	0