Juan C Maya

List of Publications by Year
in descending order

16 papers	286 citations	1040056 9 h-index	940533 16 g-index
17 all docs	17 docs citations	17 times ranked	292 citing authors

#	Article	IF	Citations
1	Effect of flue gas recirculation during oxy-fuel combustion in a rotary cement kiln. Energy, 2014, 64, 615-625.	8.8	56
2	Degradation of polyphenols during the cocoa drying process. Journal of Food Engineering, 2016, 189, 99-105.	5.2	47
3	Effect of the CaO sintering on the calcination rate of CaCO₃ under atmospheres containing CO₂. AICHE Journal, 2018, 64, 3638-3648.	3.6	41
4	On the evolution of pore microstructure during coal char activation with steam/CO2 mixtures. Carbon, 2020, 158, 121-130.	10.3	27
5	Novel model for non catalytic solidâ€“gas reactions with structural changes by chemical reaction and sintering. Chemical Engineering Science, 2016, 142, 258-268.	3.8	24
6	Modeling of Oxidation and Reduction of a Copper-Based Oxygen Carrier. Energy & Fuels, 2014, 28, 5434-5444.	5.1	18
7	On the modeling of the co₂â€catalyzed sintering of calcium oxide. AICHE Journal, 2017, 63, 3286-3296.	3.6	18
8	Roasting impact on the chemical and physical structure of Criollo cocoa variety (Theobroma cacao L). Journal of Food Process Engineering, 2020, 43, e13400.	2.9	16
9	Novel model for the sintering of ceramics with bimodal pore size distributions: Application to the sintering of lime. AICHE Journal, 2017, 63, 893-902.	3.6	11
10	Effect of sintering on the reactivity of copper-based oxygen carriers synthesized by impregnation. Chemical Engineering Science, 2017, 162, 131-140.	3.8	9
11	Evolution of the porous structure of cocoa beans during microwave drying. Drying Technology, 2020, 38, 1313-1322.	3.1	8
12	Mathematical model for the mass transport in multiple porous scales. Journal of Food Engineering, 2018, 233, 28-39.	5.2	4
13	Development of a low-temperature water heating system based on the combustion of CH4 in porous-media. Energy, 2020, 209, 118461.	8.8	3
14	Proposal of a method to evaluate thein-situoxidation of polyphenolic during the cocoa drying. Drying Technology, 2022, 40, 559-570.	3.1	1
15	On the modelling of the peripheral fragmentation during coal char gasification with CO2. Fuel, 2021, 298, 120865.	6.4	1
16	Modeling a fluidized bed reactor by integrating various scales: Pore, particle, and reactor. AICHE Journal, 2021, 67, e17199.	3.6	0