

Antonio Soria

List of Publications by Year in descending order

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60
papers

1,559
citations

304602

22
h-index

330025

37
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docs citations

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times ranked

1327
citing authors

#	ARTICLE	IF	CITATIONS
1	Insights into the co-pyrolysis of olive stone, waste polyvinyl chloride and Spirulina microalgae blends through thermogravimetric analysis. <i>Algal Research</i> , 2022, 62, 102635.	2.4	5
2	Design of Novel Cooling Systems Based on Metal Plates with Channels of Shapes Inspired by Nature. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 3350.	1.3	1
3	Kinetics mechanism of inert and oxidative torrefaction of biomass. <i>Energy Conversion and Management</i> , 2022, 267, 115892.	4.4	21
4	Evaluation of the number of first-order reactions required to accurately model biomass pyrolysis. <i>Chemical Engineering Journal</i> , 2021, 408, 127291.	6.6	7
5	Synthesis, characterization and absorbability of Crocus sativus petals hydrothermal carbonized hydrochar and activated hydrochar. <i>Chemical Engineering and Processing: Process Intensification</i> , 2021, 159, 108236.	1.8	24
6	The influence of the elemental and structural chemical composition on the ash fusibility of sugarcane bagasse and sugarcane straw. <i>Fuel</i> , 2021, 304, 121404.	3.4	5
7	Modeling the motion of fuel particles in a fluidized bed. <i>Fuel</i> , 2021, 305, 121424.	3.4	11
8	Numerical and Experimental Evaluation and Heat Transfer Characteristics of a Soft Magnetic Transformer Built from Laminated Steel Plates. <i>Sensors</i> , 2021, 21, 7939.	2.1	2
9	Experimental study of bubble dynamics and flow transition recognition in a fluidized bed with wet particles. <i>Chemical Engineering Science</i> , 2020, 211, 115257.	1.9	19
10	Pyrolysis of sludge and biomass residues. , 2020, , 155-181.		3
11	Microalgae pyrolysis under isothermal and non-isothermal conditions. <i>Algal Research</i> , 2020, 51, 102031.	2.4	12
12	Thermal behavior, thermodynamics and kinetics of co-pyrolysis of binary and ternary mixtures of biomass through thermogravimetric analysis. <i>Fuel</i> , 2020, 280, 118665.	3.4	53
13	Evaluation of heat transfer models at various fluidization velocities for biomass pyrolysis conducted in a bubbling fluidized bed. <i>International Journal of Heat and Mass Transfer</i> , 2020, 160, 120175.	2.5	18
14	Experimental evaluation of the convection heat transfer coefficient of large particles moving freely in a fluidized bed reactor. <i>International Journal of Heat and Mass Transfer</i> , 2020, 153, 119612.	2.5	14
15	On the characteristic heating and pyrolysis time of thermally small biomass particles in a bubbling fluidized bed reactor. <i>Renewable Energy</i> , 2020, 160, 312-322.	4.3	9
16	Pollutant emissions released during sewage sludge combustion in a bubbling fluidized bed reactor. <i>Waste Management</i> , 2020, 105, 27-38.	3.7	24
17	Comparison of wood pyrolysis kinetic data derived from thermogravimetric experiments by model-fitting and model-free methods. <i>Energy Conversion and Management</i> , 2020, 212, 112818.	4.4	53
18	BLIND PEER REVIEW OF ACADEMIC RESEARCH PROJECTS OF RENEWABLE ENERGIES BY STUDENTS. , 2020, , .		0

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19	Effect of bed material density on the performance of steam gasification of biomass in bubbling fluidized beds. <i>Fuel</i> , 2019, 257, 116118.	3.4	20
20	Pyrolysis and Combustion Kinetic Study and Complementary Study of Ash Fusibility Behavior of Sugarcane Bagasse, Sugarcane Straw, and Their Pellets—Case Study of Agro-Industrial Residues. <i>Energy & Fuels</i> , 2019, 33, 3227-3238.	2.5	19
21	Numerical study of the effect of pressure and temperature on the fluidization of solids with air and (supercritical) CO ₂ . <i>Journal of Supercritical Fluids</i> , 2019, 147, 271-283.	1.6	17
22	Exergy recovery from solar heated particles to supercritical CO ₂ . <i>Applied Thermal Engineering</i> , 2019, 146, 469-481.	3.0	18
23	Lateral solids meso-mixing in pseudo-2D fluidized beds by means of TFM simulations. <i>Powder Technology</i> , 2018, 334, 183-191.	2.1	18
24	Analyzing the pyrolysis kinetics of several microalgae species by various differential and integral isoconversional kinetic methods and the Distributed Activation Energy Model. <i>Algal Research</i> , 2018, 32, 11-29.	2.4	57
25	Combining the lumped capacitance method and the simplified distributed activation energy model to describe the pyrolysis of thermally small biomass particles. <i>Energy Conversion and Management</i> , 2018, 175, 164-172.	4.4	17
26	Pyrolysis of <i>Cynara cardunculus</i> L. samples — Effect of operating conditions and bed stage on the evolution of the conversion. <i>Chemical Engineering Journal</i> , 2018, 351, 371-381.	6.6	17
27	Pyrolysis of biofuels of the future: Sewage sludge and microalgae — Thermogravimetric analysis and modelling of the pyrolysis under different temperature conditions. <i>Energy Conversion and Management</i> , 2017, 138, 261-272.	4.4	69
28	Improvement of the simulation of fuel particles motion in a fluidized bed by considering wall friction. <i>Chemical Engineering Journal</i> , 2017, 321, 175-183.	6.6	11
29	Pyrolysis of sewage sludge in a fixed and a bubbling fluidized bed — Estimation and experimental validation of the pyrolysis time. <i>Energy Conversion and Management</i> , 2017, 144, 235-242.	4.4	39
30	The role of fuel mixing on char conversion in a fluidized bed. <i>Powder Technology</i> , 2017, 316, 677-686.	2.1	17
31	Experimental study on the characteristic mixing time of solids and its link with the lateral dispersion coefficient in bubbling fluidized beds. <i>Chemical Engineering Journal</i> , 2017, 307, 113-121.	6.6	35
32	Modeling of the pyrolysis of biomass under parabolic and exponential temperature increases using the Distributed Activation Energy Model. <i>Energy Conversion and Management</i> , 2016, 118, 223-230.	4.4	20
33	Modeling the thin-layer drying process of Granny Smith apples: Application in an indirect solar dryer. <i>Applied Thermal Engineering</i> , 2016, 108, 1086-1094.	3.0	42
34	Multiresolution Analysis of a Drying Process in a Rotating-Distributor Fluidized Bed. <i>Drying Technology</i> , 2016, 34, 119-131.	1.7	4
35	Evaluation of the Maximum Evaporation Rate in Small-Scale Indirect Solar Dryers. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2016, 138, .	1.1	6
36	Agglomeration detection by pressure fluctuation analysis during <i>Cynara cardunculus</i> L. gasification in a fluidized bed. <i>Chemical Engineering Journal</i> , 2016, 284, 640-649.	6.6	35

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37	Stagnant regions estimation in fluidized beds from bed surface observation. Chemical Engineering Journal, 2015, 281, 109-118.	6.6	4
38	Effect of the number of TGA curves employed on the biomass pyrolysis kinetics results obtained using the Distributed Activation Energy Model. Fuel Processing Technology, 2015, 134, 360-371.	3.7	74
39	Fully coupled TFM-DEM simulations to study the motion of fuel particles in a fluidized bed. Chemical Engineering Science, 2015, 134, 57-66.	1.9	25
40	Maldistribution detection in bubbling fluidized beds. Chemical Engineering Journal, 2015, 270, 272-281.	6.6	8
41	Experimental analysis and simulation of the performance of a box-type solar cooker. Energy for Sustainable Development, 2015, 29, 65-71.	2.0	47
42	Optimization of the feeding ports location in a fluidized bed combustor based on Monte Carlo simulations of fuel particles motion. Fuel, 2015, 141, 82-92.	3.4	16
43	Thermal design guidelines of solar power towers. Applied Thermal Engineering, 2014, 63, 428-438.	3.0	147
44	Evaluating the accuracy of the Distributed Activation Energy Model for biomass devolatilization curves obtained at high heating rates. Energy Conversion and Management, 2014, 86, 1045-1049.	4.4	49
45	Simulation and experimental study on the motion of non-reacting objects in the freeboard of a fluidized bed. Powder Technology, 2014, 263, 112-120.	2.1	13
46	The effect of temperature on the distributor design in bubbling fluidized beds. Powder Technology, 2014, 261, 176-184.	2.1	21
47	Moving bed syngas conditioning: Modelling. Applied Thermal Engineering, 2014, 62, 809-822.	3.0	2
48	Energy and exergy analysis of an absorption power cycle. Applied Thermal Engineering, 2013, 55, 69-77.	3.0	51
49	Experimental quantification of the particle-wall frictional forces in pseudo-2D gas fluidised beds. Chemical Engineering Science, 2013, 102, 257-267.	1.9	17
50	Simulation of object motion in a bubbling fluidized bed using a Monte Carlo method. Chemical Engineering Science, 2013, 96, 26-32.	1.9	14
51	Estimation and experimental validation of the circulation time in a 2D gas-solid fluidized beds. Powder Technology, 2013, 235, 669-676.	2.1	27
52	Analysis of biomass and sewage sludge devolatilization using the distributed activation energy model. Energy Conversion and Management, 2013, 65, 239-244.	4.4	80
53	Fluidized bed with a rotating distributor operated under defluidization conditions. Chemical Engineering Journal, 2012, 195-196, 198-207.	6.6	25
54	Circulation of an object immersed in a bubbling fluidized bed. Chemical Engineering Science, 2011, 66, 78-87.	1.9	59

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55	Motion of a large object in a bubbling fluidized bed with a rotating distributor. Chemical Engineering and Processing: Process Intensification, 2011, 50, 859-868.	1.8	28
56	Buoyancy effects on objects moving in a bubbling fluidized bed. Chemical Engineering Science, 2011, 66, 2833-2841.	1.9	46
57	Solid conduction effects and design criteria in moving bed heat exchangers. Applied Thermal Engineering, 2011, 31, 1200-1207.	3.0	21
58	Exergy Optimization in a Steady Moving Bed Heat Exchanger. Annals of the New York Academy of Sciences, 2009, 1161, 584-600.	1.8	7
59	Airport electric vehicle powered by fuel cell. Journal of Power Sources, 2007, 169, 184-193.	4.0	36
60	Modelling and Design of Indirect Solar Dryers for Batch Drying. Renewable Energy and Power Quality Journal, 0, , 1093-1098.	0.2	0