

Fethi Zagrouba

List of Publications by Year in descending order

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58
papers

1,434
citations

279798
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345221
36
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59
all docs

59
docs citations

59
times ranked

1520
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal degradation of olive solid waste: Influence of particle size and oxygen concentration. Resources, Conservation and Recycling, 2010, 54, 271-277.	10.8	91
2	Textile wastewater treatment by agro-industrial waste: Equilibrium modelling, thermodynamics and mass transfer mechanisms of cationic dyes adsorption onto low-cost lignocellulosic adsorbent. Journal of the Taiwan Institute of Chemical Engineers, 2019, 96, 439-452.	5.3	90
3	Cross-metathesis transformations of terpenoids in dialkyl carbonate solvents. Green Chemistry, 2011, 13, 1448.	9.0	76
4	Eugenol as a renewable feedstock for the production of polyfunctional alkenes via olefin cross-metathesis. RSC Advances, 2012, 2, 9584.	3.6	65
5	Water diffusion coefficient in clay material from drying data. Desalination, 2005, 185, 491-498.	8.2	59
6	Shrinkage, vitamin C degradation and aroma losses during infra-red drying of apple slices. LWT - Food Science and Technology, 2007, 40, 1648-1654.	5.2	59
7	Chemical Composition and in vitro Antimicrobial and Antioxidant Activities of Citrus aurantium L. Flowers Essential Oil (Neroli Oil). Pakistan Journal of Biological Sciences, 2012, 15, 1034-1040.	0.5	59
8	Analytical study of the pyrolysis process in a wastewater treatment pilot station. Desalination, 2004, 167, 39-47.	8.2	51
9	Basic red 2 and methyl violet adsorption by date pits: adsorbent characterization, optimization by RSM and CCD, equilibrium and kinetic studies. Environmental Science and Pollution Research, 2019, 26, 18942-18960.	5.3	46
10	Energetic valorisation of olive mill wastewater impregnated on low cost absorbent: Sawdust versus olive solid waste. Energy, 2012, 39, 74-81.	8.8	44
11	Mathematical Model for Drying of Highly Shrinkable Media. Drying Technology, 2004, 22, 1023-1039.	3.1	43
12	Transfer Phenomena During the Drying of a Shrinkable Product: Modeling and Simulation. Drying Technology, 2004, 22, 91-109.	3.1	42
13	Study on the emission mechanism during devolatilization/char oxidation and direct oxidation of olive solid waste in a fixed bed reactor. Journal of Analytical and Applied Pyrolysis, 2010, 87, 168-174.	5.5	42
14	Impact of different catalysis supported by oyster shells on the pyrolysis of tyre wastes in a single and a double fixed bed reactor. Waste Management, 2017, 67, 288-297.	7.4	41
15	Application of a Coupled Thermo-Hydro-Mechanical Model to Simulate the Drying of Nonsaturated Porous Media. Drying Technology, 2009, 27, 842-850.	3.1	37
16	Moisture Diffusivity and Shrinkage of Fruit and Cladode of <i>Opuntia ficus-indica</i> during Infrared Drying. Journal of Food Processing, 2014, 2014, 1-9.	2.0	31
17	Modelling of convective drying of carrot slices with IR heat source. Chemical Engineering and Processing: Process Intensification, 2009, 48, 808-815.	3.6	29
18	Catalysts' influence on thermochemical decomposition of waste tires. Environmental Progress and Sustainable Energy, 2017, 36, 1560-1567.	2.3	28

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19	Optimization of operating conditions of Tunisian myrtle (<i>Myrtus communis</i> L.) essential oil extraction by a hydrodistillation process using a 2 ⁴ complete factorial design. Flavour and Fragrance Journal, 2010, 25, 503-507.	2.6	27
20	Novel Catalytic Systems for Waste Tires Pyrolysis: Optimization of Gas Fraction. Journal of Energy Resources Technology, Transactions of the ASME, 2017, 139, .	2.3	27
21	Terminal conjugated dienes via a ruthenium-catalyzed cross-metathesis/elimination sequence: application to renewable resources. Catalysis Science and Technology, 2014, 4, 2064-2071.	4.1	25
22	Stability and thermophysical properties of azithromycin dihydrate. Arabian Journal of Chemistry, 2014, 7, 189-195.	4.9	25
23	Drying of agricultural crops by solar energy. Desalination, 2004, 168, 101-109.	8.2	24
24	Modelling and simulation of drying phenomena with rheological behaviour. Brazilian Journal of Chemical Engineering, 2005, 22, 153-163.	1.3	24
25	DRYING OF CLAY. II RHEOLOGICAL MODELISATION AND SIMULATION OF PHYSICAL PHENOMENA. Drying Technology, 2002, 20, 1895-1917.	3.1	23
26	MODELISATION PRINCIPLES FOR DRYING OF GELS. Drying Technology, 1994, 12, 1245-1262.	3.1	22
27	Production of hydrogen and hydrogen-rich syngas during thermal catalytic supported cracking of waste tyres in a bench-scale fixed bed reactor. International Journal of Hydrogen Energy, 2019, 44, 11289-11302.	7.1	22
28	Thermodynamics of water sorption in clay. Desalination, 2004, 166, 393-399.	8.2	20
29	Incineration of a small particle of wet sewage sludge: A numerical comparison between two states of the surrounding atmosphere. Journal of Hazardous Materials, 2007, 147, 871-882.	12.4	20
30	Water sorption and dehydration kinetics of Tunisian rosemary leaves. Desalination, 2005, 185, 517-521.	8.2	19
31	Use of a transient model to simulate fluidized bed incineration of sewage sludge. Journal of Hazardous Materials, 2006, 135, 200-209.	12.4	19
32	DRYING OF CLAY. I MATERIAL CHARACTERISTICS. Drying Technology, 2002, 20, 465-487.	3.1	18
33	Mechanical dewatering of suspension. Desalination, 2003, 158, 259-265.	8.2	18
34	Development of A Darcy-flow model applied to simulate the drying of shrinking media. Brazilian Journal of Chemical Engineering, 2008, 25, 503-514.	1.3	18
35	Transient mathematical modelling of a fluidized bed incinerator for sewage sludge. Journal of Cleaner Production, 2008, 16, 178-191.	9.3	16
36	Modeling and Stress Analysis During Drying of a Deformable and Saturated Porous Medium. Drying Technology, 2013, 31, 1124-1137.	3.1	15

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37	Modeling kinetics and transport phenomena during multi-stage tire wastes pyrolysis using Comsol®. Waste Management, 2018, 78, 337-345.	7.4	15
38	Simulation model for a solar drying process. Desalination, 2004, 168, 111-115.	8.2	11
39	Modelling of the Drying Kinetics of Opuntia Ficus Indica Fruits and Cladodes. International Journal of Food Engineering, 2010, 6, .	1.5	10
40	Olefin metathesis transformations in thermomorphic multicomponent solvent systems. Catalysis Communications, 2015, 63, 31-34.	3.3	10
41	ANALYSIS OF HEAT AND MASS FLUXES DURING MICROWAVE DRYING. Drying Technology, 1997, 15, 2113-2127.	3.1	9
42	Monitoring of theophylline dehydration in a vacuum contact dryer by near-infrared spectroscopy. Chemical Engineering Research and Design, 2013, 91, 1063-1070.	5.6	7
43	Gas adsorptive desulfurization of thiophene by spent coffee grounds-derived carbon optimized by response surface methodology: Isotherms and kinetics evaluation. Journal of Environmental Chemical Engineering, 2020, 8, 104036.	6.7	7
44	Physico-Chemical Characterisation of Opuntia dillenii Fruit. International Journal of Food Engineering, 2010, 6, .	1.5	6
45	Experimental Study and Modeling of Essential Oil Extraction from Plants by Hydrodistillation. Chemical Engineering and Technology, 2014, 37, 1235-1242.	1.5	6
46	Modelling of Moisture Content, β -Carotene and Deformation Variation during Drying of Carrot. International Journal of Food Engineering, 2019, 15, .	1.5	5
47	Characterisation of Potato Slices During Drying: Density, Shrinkage, and Thermodynamic of Sorption. International Journal of Food Engineering, 2011, 7, .	1.5	4
48	Influence of Air Temperature and Humidity on Dehydration Equilibria and Kinetics of Theophylline. Journal of Pharmaceutics, 2013, 2013, 1-9.	4.7	4
49	Experimental Study of Pyrolytic Oils from Used Tires: Impact of Secondary Reactions on Liquid Composition. Waste and Biomass Valorization, 2021, 12, 4663-4678.	3.4	4
50	Comprehensive study of simultaneous adsorption of basic red 2 and basic violet 3 by an agro-industrial waste: dynamics, kinetics and modeling. Comptes Rendus Chimie, 2020, 23, 671-687.	0.5	4
51	Chemical composition, antimicrobial and antioxidant activities of the essentials oils from flowers of Salvia sharifii. European Journal of Chemistry, 2015, 6, 301-304.	0.6	4
52	Clean Procedure and DFT Study for the Synthesis of 2-Amino-3-ethoxycarbonyl-4-(aryl)-4H-pyrano-[3,2-c]-chromene-5-ones Derivatives: A Novel Class of Potential Antimicrobial and Antioxidant Agents. Journal of Chemistry, 2013, 2013, 1-9.	1.9	3
53	A novel low-cost material for thiophene and toluene removal: Study of the tire pyrolysis volatiles. Chemical Engineering Journal, 2022, 450, 138059.	12.7	3
54	Principles for Hydrodynamical and Geometrical Design of Vibrated Bed Driers. Drying Technology, 1995, 13, 1249-1260.	3.1	2

#	ARTICLE	IF	CITATIONS
55	Study on hydrogen and hydrogen-carriers production during rubbery wastes cracking. , 2016, , .		2
56	Energy and monomer recovery from polymer wastes. , 2016, , .		1
57	FACTORS INFLUENCING THE THERMOCHEMICAL BEHAVIOURS OF TIRE RUBBER: PART I - INFLUENCE OF FIBER AND METAL. Environmental Engineering and Management Journal, 2016, 15, 1349-1360.	0.6	1
58	Waste tyres pyrolysis: Managing the environmental hazards of scrap tyres. , 2015, , .		0