

Fethi Zagrouba

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

1,434
citations

279798

23
h-index

345221

36
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59
all docs

59
docs citations

59
times ranked

1520
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel low-cost material for thiophene and toluene removal: Study of the tire pyrolysis volatiles. <i>Chemical Engineering Journal</i> , 2022, 450, 138059.	12.7	3
2	Experimental Study of Pyrolytic Oils from Used Tires: Impact of Secondary Reactions on Liquid Composition. <i>Waste and Biomass Valorization</i> , 2021, 12, 4663-4678.	3.4	4
3	Gas adsorptive desulfurization of thiophene by spent coffee grounds-derived carbon optimized by response surface methodology: Isotherms and kinetics evaluation. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104036.	6.7	7
4	Comprehensive study of simultaneous adsorption of basic red 2 and basic violet 3 by an agro-industrial waste: dynamics, kinetics and modeling. <i>Comptes Rendus Chimie</i> , 2020, 23, 671-687.	0.5	4
5	Basic red 2 and methyl violet adsorption by date pits: adsorbent characterization, optimization by RSM and CCD, equilibrium and kinetic studies. <i>Environmental Science and Pollution Research</i> , 2019, 26, 18942-18960.	5.3	46
6	Modelling of Moisture Content, β -Carotene and Deformation Variation during Drying of Carrot. <i>International Journal of Food Engineering</i> , 2019, 15, .	1.5	5
7	Textile wastewater treatment by agro-industrial waste: Equilibrium modelling, thermodynamics and mass transfer mechanisms of cationic dyes adsorption onto low-cost lignocellulosic adsorbent. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 96, 439-452.	5.3	90
8	Production of hydrogen and hydrogen-rich syngas during thermal catalytic supported cracking of waste tyres in a bench-scale fixed bed reactor. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 11289-11302.	7.1	22
9	Modeling kinetics and transport phenomena during multi-stage tire wastes pyrolysis using Comsol®. <i>Waste Management</i> , 2018, 78, 337-345.	7.4	15
10	Novel Catalytic Systems for Waste Tires Pyrolysis: Optimization of Gas Fraction. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2017, 139, .	2.3	27
11	Catalysts' influence on thermochemical decomposition of waste tires. <i>Environmental Progress and Sustainable Energy</i> , 2017, 36, 1560-1567.	2.3	28
12	Impact of different catalysis supported by oyster shells on the pyrolysis of tyre wastes in a single and a double fixed bed reactor. <i>Waste Management</i> , 2017, 67, 288-297.	7.4	41
13	Energy and monomer recovery from polymer wastes. , 2016, , .		1
14	Study on hydrogen and hydrogen-carriers production during rubbery wastes cracking. , 2016, , .		2
15	FACTORS INFLUENCING THE THERMOCHEMICAL BEHAVIOURS OF TIRE RUBBER: PART I - INFLUENCE OF FIBER AND METAL. <i>Environmental Engineering and Management Journal</i> , 2016, 15, 1349-1360.	0.6	1
16	Waste tyres pyrolysis: Managing the environmental hazards of scrap tyres. , 2015, , .		0
17	Olefin metathesis transformations in thermomorphic multicomponent solvent systems. <i>Catalysis Communications</i> , 2015, 63, 31-34.	3.3	10
18	Chemical composition, antimicrobial and antioxidant activities of the essentials oils from flowers of <i>Salvia sharifii</i> . <i>European Journal of Chemistry</i> , 2015, 6, 301-304.	0.6	4

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19	Moisture Diffusivity and Shrinkage of Fruit and Cladode of <i>Opuntia ficus-indica</i> during Infrared Drying. <i>Journal of Food Processing</i> , 2014, 2014, 1-9.	2.0	31
20	Experimental Study and Modeling of Essential Oil Extraction from Plants by Hydrodistillation. <i>Chemical Engineering and Technology</i> , 2014, 37, 1235-1242.	1.5	6
21	Terminal conjugated dienes via a ruthenium-catalyzed cross-metathesis/elimination sequence: application to renewable resources. <i>Catalysis Science and Technology</i> , 2014, 4, 2064-2071.	4.1	25
22	Stability and thermophysical properties of azithromycin dihydrate. <i>Arabian Journal of Chemistry</i> , 2014, 7, 189-195.	4.9	25
23	Modeling and Stress Analysis During Drying of a Deformable and Saturated Porous Medium. <i>Drying Technology</i> , 2013, 31, 1124-1137.	3.1	15
24	Monitoring of theophylline dehydration in a vacuum contact dryer by near-infrared spectroscopy. <i>Chemical Engineering Research and Design</i> , 2013, 91, 1063-1070.	5.6	7
25	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. <i>Journal of Chemistry</i> , 2013, 2013, 1-9.	1.9	3
26	Influence of Air Temperature and Humidity on Dehydration Equilibria and Kinetics of Theophylline. <i>Journal of Pharmaceutics</i> , 2013, 2013, 1-9.	4.7	4
27	Eugenol as a renewable feedstock for the production of polyfunctional alkenes via olefin cross-metathesis. <i>RSC Advances</i> , 2012, 2, 9584.	3.6	65
28	Energetic valorisation of olive mill wastewater impregnated on low cost absorbent: Sawdust versus olive solid waste. <i>Energy</i> , 2012, 39, 74-81.	8.8	44
29	Chemical Composition and in vitro Antimicrobial and Antioxidant Activities of Citrus aurantium L. Flowers Essential Oil (Neroli Oil). <i>Pakistan Journal of Biological Sciences</i> , 2012, 15, 1034-1040.	0.5	59
30	Cross-metathesis transformations of terpenoids in dialkyl carbonate solvents. <i>Green Chemistry</i> , 2011, 13, 1448.	9.0	76
31	Characterisation of Potato Slices During Drying: Density, Shrinkage, and Thermodynamic of Sorption. <i>International Journal of Food Engineering</i> , 2011, 7, .	1.5	4
32	Study on the emission mechanism during devolatilization/char oxidation and direct oxidation of olive solid waste in a fixed bed reactor. <i>Journal of Analytical and Applied Pyrolysis</i> , 2010, 87, 168-174.	5.5	42
33	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. <i>Flavour and Fragrance Journal</i> , 2010, 25, 503-507.	2.6	27
34	Thermal degradation of olive solid waste: Influence of particle size and oxygen concentration. <i>Resources, Conservation and Recycling</i> , 2010, 54, 271-277.	10.8	91
35	Modelling of the Drying Kinetics of <i>Opuntia Ficus Indica</i> Fruits and Cladodes. <i>International Journal of Food Engineering</i> , 2010, 6, .	1.5	10
36	Physico-Chemical Characterisation of <i>Opuntia dillenii</i> Fruit. <i>International Journal of Food Engineering</i> , 2010, 6, .	1.5	6

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37	Modelling of convective drying of carrot slices with IR heat source. <i>Chemical Engineering and Processing: Process Intensification</i> , 2009, 48, 808-815.	3.6	29
38	Application of a Coupled Thermo-Hydro-Mechanical Model to Simulate the Drying of Nonsaturated Porous Media. <i>Drying Technology</i> , 2009, 27, 842-850.	3.1	37
39	Transient mathematical modelling of a fluidized bed incinerator for sewage sludge. <i>Journal of Cleaner Production</i> , 2008, 16, 178-191.	9.3	16
40	Development of A Darcy-flow model applied to simulate the drying of shrinking media. <i>Brazilian Journal of Chemical Engineering</i> , 2008, 25, 503-514.	1.3	18
41	Shrinkage, vitamin C degradation and aroma losses during infra-red drying of apple slices. <i>LWT - Food Science and Technology</i> , 2007, 40, 1648-1654.	5.2	59
42	Incineration of a small particle of wet sewage sludge: A numerical comparison between two states of the surrounding atmosphere. <i>Journal of Hazardous Materials</i> , 2007, 147, 871-882.	12.4	20
43	Use of a transient model to simulate fluidized bed incineration of sewage sludge. <i>Journal of Hazardous Materials</i> , 2006, 135, 200-209.	12.4	19
44	Modelling and simulation of drying phenomena with rheological behaviour. <i>Brazilian Journal of Chemical Engineering</i> , 2005, 22, 153-163.	1.3	24
45	Water sorption and dehydration kinetics of Tunisian rosemary leaves. <i>Desalination</i> , 2005, 185, 517-521.	8.2	19
46	Water diffusion coefficient in clay material from drying data. <i>Desalination</i> , 2005, 185, 491-498.	8.2	59
47	Simulation model for a solar drying process. <i>Desalination</i> , 2004, 168, 111-115.	8.2	11
48	Thermodynamics of water sorption in clay. <i>Desalination</i> , 2004, 166, 393-399.	8.2	20
49	Analytical study of the pyrolysis process in a wastewater treatment pilot station. <i>Desalination</i> , 2004, 167, 39-47.	8.2	51
50	Drying of agricultural crops by solar energy. <i>Desalination</i> , 2004, 168, 101-109.	8.2	24
51	Mathematical Model for Drying of Highly Shrinkable Media. <i>Drying Technology</i> , 2004, 22, 1023-1039.	3.1	43
52	Transfer Phenomena During the Drying of a Shrinkable Product: Modeling and Simulation. <i>Drying Technology</i> , 2004, 22, 91-109.	3.1	42
53	Mechanical dewatering of suspension. <i>Desalination</i> , 2003, 158, 259-265.	8.2	18
54	DRYING OF CLAY. II RHEOLOGICAL MODELISATION AND SIMULATION OF PHYSICAL PHENOMENA. <i>Drying Technology</i> , 2002, 20, 1895-1917.	3.1	23

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55	DRYING OF CLAY. I MATERIAL CHARACTERISTICS. <i>Drying Technology</i> , 2002, 20, 465-487.	3.1	18
56	ANALYSIS OF HEAT AND MASS FLUXES DURING MICROWAVE DRYING. <i>Drying Technology</i> , 1997, 15, 2113-2127.	3.1	9
57	Principles for Hydrodynamical and Geometrical Design of Vibrated Bed Driers. <i>Drying Technology</i> , 1995, 13, 1249-1260.	3.1	2
58	MODELISATION PRINCIPLES FOR DRYING OF GELS. <i>Drying Technology</i> , 1994, 12, 1245-1262.	3.1	22