

# Lyes Bennamoun

## List of Publications by Year in descending order

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Version: 2024-02-01

56  
papers

1,582  
citations

304368

22  
h-index

315357

38  
g-index

56  
all docs

56  
docs citations

56  
times ranked

1199  
citing authors

#	ARTICLE	IF	CITATIONS
1	Moisture evolution, thermal properties and energy consumption of drying spent grain pellets from a blend of some cereals for small-scale bio-energy utilization: modelling and experimental study. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 8805-8817.	2.9	3
2	Energy and exergy analysis of solar dryer with triple air passage direction collector powered by a wind generator. <i>International Journal of Energy and Environmental Engineering</i> , 2023, 14, 63-77.	1.3	11
3	Modeling and simulation of drying kinetics/curves: application to building materials. <i>Journal of Building Pathology and Rehabilitation</i> , 2022, 7, 1.	0.7	3
4	Optimization of the energy consumption, drying kinetics and evolution of thermo-physical properties of drying of forage grass for haymaking. <i>Heat and Mass Transfer</i> , 2022, 58, 1187-1206.	1.2	7
5	Bioresource Technology for Bioenergy: Development and Trends. <i>Energies</i> , 2022, 15, 1717.	1.6	1
6	Influence of hot water blanching and saline immersion period on the thermal effusivity and the drying kinetics of hybrid solar drying of sweet potato chips. <i>Solar Energy</i> , 2022, 240, 176-192.	2.9	13
7	Numerical Study of the Pyrolysis of Wood Chips for Biocharcoal Production: Influence of Chips Geometry and Initial Moisture Content. <i>Energies</i> , 2022, 15, 4098.	1.6	0
8	Analysis of the Heat Transfer Coefficient, Thermal Effusivity and Mathematical Modelling of Drying Kinetics of a Partitioned Single Pass Low-Cost Solar Drying of Cocoyam Chips with Economic Assessments. <i>Energies</i> , 2022, 15, 4457.	1.6	11
9	Comparative experimental evaluation and thermodynamic analysis of the possibility of using degraded C15-C50 crankcase oil waste as thermal storage materials in solar drying systems. <i>Solar Energy</i> , 2022, 240, 408-421.	2.9	7
10	Nigeria's Energy deficit: The challenges and Eco- friendly approach in reducing the energy gap. <i>International Journal of Sustainable Engineering</i> , 2021, 14, 442-459.	1.9	7
11	Solar drying research of medicinal and aromatic plants: An African experience with assessment of the economic and environmental impact.. <i>African Journal of Science, Technology, Innovation and Development</i> , 2021, 13, 247-260.	0.8	19
12	Modeling, numerical simulation and validation of the hygrothermal transfer through a wooden building wall in Nancy, France. <i>Thermal Science and Engineering Progress</i> , 2021, 22, 100808.	1.3	6
13	Reviewing the Exergy Analysis of Solar Thermal Systems Integrated with Phase Change Materials. <i>Energies</i> , 2021, 14, 724.	1.6	18
14	Effect of Ultrasound on Henna Leaves Drying and Extraction of Lawsone: Experimental and Modeling Study. <i>Energies</i> , 2021, 14, 1329.	1.6	4
15	Numerical Study of the Drying of Cassava Roots Chips Using an Indirect Solar Dryer in Natural Convection. <i>AgriEngineering</i> , 2021, 3, 138-157.	1.7	15
16	Influence of drying applications on wood, brick and concrete used as building materials: a review. <i>Journal of Building Pathology and Rehabilitation</i> , 2021, 6, 1.	0.7	9
17	Modeling, numerical simulation and validation of a convective dryer in steady conditions: case study of tropical woods. <i>International Journal of Modelling and Simulation</i> , 2020, 40, 143-161.	2.3	8
18	Numerical analysis and validation of a natural convection mix-mode solar dryer for drying red chilli under variable conditions. <i>Renewable Energy</i> , 2020, 151, 659-673.	4.3	57

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19	Simulation of Storage Conditions of Mixed Biomass Pellets for Bioenergy Generation: Study of the Thermodynamic Properties. <i>Energies</i> , 2020, 13, 2544.	1.6	7
20	Energetic sustainability and economic analysis of hybrid solar-biomass dryer integrated with copper tubing as heat exchanger. <i>Heliyon</i> , 2020, 6, e03401.	1.4	83
21	In-Situ Evolution of Heat and Mass Transfer Phenomena and Evaporative Water Losses of Three Agro-Waste Evaporative Cooling Pads: An Experimental and Modeling Study. <i>Waste and Biomass Valorization</i> , 2019, 10, 3185-3195.	1.8	7
22	Determination and modeling of the isotherms of adsorption/desorption and thermodynamic properties of obeche and lotofa using nelson's sorption model. <i>Heat and Mass Transfer</i> , 2019, 55, 2185-2197.	1.2	17
23	Modeling of coupled heat and mass transfer during drying of ebony wood using indirect natural convection solar dryer. <i>Drying Technology</i> , 2019, 37, 1863-1878.	1.7	26
24	Using Diffusion Model for Prediction and Optimization of Drying Process of Building Material. <i>Advances in Civil and Industrial Engineering Book Series</i> , 2019, , 1-23.	0.2	1
25	Potential of integrating Na <sub>2</sub> SO <sub>4</sub> ·10H <sub>2</sub> O pellets in solar drying system. <i>Drying Technology</i> , 2018, 36, 1017-1030.	1.7	39
26	Effect of Storage Conditions on Moisture Sorption of Mixed Biomass Pellets. <i>Arabian Journal for Science and Engineering</i> , 2018, 43, 1195-1203.	1.7	11
27	Drying Process of Food: Fundamental Aspects and Mathematical Modeling. , 2018, , 29-82.		5
28	Experience of Solar Drying in Africa: Presentation of Designs, Operations, and Models. <i>Food Engineering Reviews</i> , 2018, 10, 211-244.	3.1	38
29	Evolution of thermo-physical properties of Akuama ( <i>picralima nitida</i> ) seed and antioxidants retention capacity during hot air drying. <i>Heat and Mass Transfer</i> , 2018, 54, 3533-3546.	1.2	11
30	Numerical study of timber solar drying with application to different geographical and climatic conditions in Central Africa. <i>Solar Energy</i> , 2018, 170, 454-469.	2.9	36
31	Pyrolysis of corn stalk biomass briquettes in a scaled-up microwave technology. <i>Bioresource Technology</i> , 2017, 233, 353-362.	4.8	79
32	Energy and exergy analysis of a solar dryer integrated with sodium sulfate decahydrate and sodium chloride as thermal storage medium. <i>Renewable Energy</i> , 2017, 113, 1182-1192.	4.3	99
33	Numerical models performance to predict drying liquid water in porous building materials: Comparison of experimental and simulated drying water content profiles. <i>Cogent Engineering</i> , 2017, 4, 1365572.	1.1	7
34	Superheated steam drying: Design aspects, energetic performances, and mathematical modeling. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 60, 1562-1583.	8.2	39
35	Microwave drying of wastewater sludge: Experimental and modeling study. <i>Drying Technology</i> , 2016, 34, 235-243.	1.7	38
36	Forced Convective Drying of Wastewater Sludge with the Presentation of Exergy Analysis of the Dryer. <i>Chemical Engineering Communications</i> , 2016, 203, 855-860.	1.5	8

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37	Moisture Diffusivity during Microwave Drying of Wastewater Sewage Sludge. Transactions of the ASABE, 2015, , 501-508.	1.1	4
38	Investigation on Convective Drying of Mixtures of Sewage Sludge and Sawdust in a Fixed Bed. Drying Technology, 2015, 33, 704-712.	1.7	21
39	Convective drying of a single cherry tomato: Modeling and experimental study. Food and Bioprocess Processing, 2015, 94, 114-123.	1.8	31
40	Drying of alga as a source of bioenergy feedstock and food supplement " A review. Renewable and Sustainable Energy Reviews, 2015, 50, 1203-1212.	8.2	29
41	Determination of the Moisture-Sorption Isotherms and Isotheric Heat of Henna Leaves. Journal of Engineering Physics and Thermophysics, 2015, 88, 52-62.	0.2	16
42	Modeling and Simulation of Heat and Mass Transfer During Convective Drying of Wastewater Sludge with Introduction of Shrinkage Phenomena. Drying Technology, 2014, 32, 13-22.	1.7	38
43	Analysis of the Shrinkage Effect on Mass Transfer During Convective Drying of Sawdust/Sludge Mixtures. Drying Technology, 2014, 32, 1706-1717.	1.7	33
44	Convective Drying of Wastewater Sludge: Introduction of Shrinkage Effect in Mathematical Modeling. Drying Technology, 2013, 31, 643-654.	1.7	46
45	Improving Solar Dryers's™ Performances Using Design and Thermal Heat Storage. Food Engineering Reviews, 2013, 5, 230-248.	3.1	19
46	Review on fundamental aspect of application of drying process to wastewater sludge. Renewable and Sustainable Energy Reviews, 2013, 28, 29-43.	8.2	183
47	Baker's Yeast Behavior during Vacuum Agitated Contact Drying. Chemical Engineering and Technology, 2013, 36, 1795-1800.	0.9	0
48	Integration of Photovoltaic Cells in Solar Drying Systems. Drying Technology, 2013, 31, 1284-1296.	1.7	19
49	Experimental Study and Modeling of Sorption Isotherms of Kabar Sid EL Cheikh Capparis Spinosa L. from Bechar (South West Algeria). Energy Procedia, 2012, 18, 359-367.	1.8	5
50	Solar drying of wastewater sludge: A review. Renewable and Sustainable Energy Reviews, 2012, 16, 1061-1073.	8.2	111
51	An Overview on Application of Exergy and Energy for Determination of Solar Drying Efficiency. International Journal of Energy and Engineering, 2012, 2, 184-194.	2.0	33
52	Reviewing the experience of solar drying in Algeria with presentation of the different design aspects of solar dryers. Renewable and Sustainable Energy Reviews, 2011, 15, 3371-3379.	8.2	34
53	Mathematical description of heat and mass transfer during deep bed drying: Effect of product shrinkage on bed porosity. Applied Thermal Engineering, 2008, 28, 2236-2244.	3.0	37
54	Numerical simulation of drying under variable external conditions: Application to solar drying of seedless grapes. Journal of Food Engineering, 2006, 76, 179-187.	2.7	66

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55	Design and simulation of a solar dryer for agriculture products. Journal of Food Engineering, 2003, 59, 259-266.	2.7	106
56	Effect of ultrasound on drying kinetics of El Henna leaves ( <i>Lawsonia inermis</i> ). , 0, , .		1