

Lazaroiu Gheorghe

List of Publications by Year in descending order

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69
papers

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citations

623734

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71
all docs

71
docs citations

71
times ranked

643
citing authors

#	ARTICLE	IF	CITATIONS
1	Wind energy integration: Variability analysis and power system impact assessment. Energy, 2019, 185, 1183-1196.	8.8	67
2	Real-time stochastic power management strategies in hybrid renewable energy systems: A review of key applications and perspectives. Electric Power Systems Research, 2020, 187, 106497.	3.6	60
3	Stochastic power management strategy for hybrid energy storage systems to enhance large scale wind energy integration. Journal of Energy Storage, 2020, 31, 101650.	8.1	47
4	Solutions for energy recovery of animal waste from leather industry. Energy Conversion and Management, 2017, 149, 1085-1095.	9.2	45
5	Experimental Investigations of Innovative Biomass Energy Harnessing Solutions. Energies, 2018, 11, 3469.	3.1	40
6	Evaluation of sustainability of a city through fuzzy logic. Energy, 2007, 32, 795-802.	8.8	39
7	Influence of co-combustion of coal/biomass on the corrosion. Fuel Processing Technology, 2012, 104, 356-364.	7.2	39
8	Biomass combustion with hydrogen injection for energy applications. Energy, 2017, 127, 351-357.	8.8	30
9	Hydrogen – An Alternative Fuel for Automotive Diesel Engines Used in Transportation. Sustainability, 2020, 12, 9321.	3.2	30
10	Carbon dioxide emissions reduction by renewable energy employment in Romania. , 2017, , .		24
11	Combustion of preheated raw animal fats-diesel fuel blends at diesel engine. Journal of Thermal Analysis and Calorimetry, 2020, 140, 2369-2375.	3.6	22
12	Influence of hydrogen enriched gas injection upon polluting emissions from pulverized coal combustion. International Journal of Hydrogen Energy, 2014, 39, 17702-17709.	7.1	18
13	Modeling and simulating combustion and generation of NOx. Fuel Processing Technology, 2007, 88, 771-777.	7.2	16
14	Innovative power management of hybrid energy storage systems coupled to RES plants: The Simultaneous Perturbation Stochastic Approximation approach. , 2019, , .		16
15	SUSTAINABLE COMBINED UTILIZATION OF RENEWABLE FOREST RESOURCES AND COAL IN ROMANIA. Environmental Engineering and Management Journal, 2008, 7, 227-232.	0.6	15
16	COMBUSTION OF PITCOAL-WOOD BIOMASS BRICHETTES IN A BOILER TEST FACILITY. Environmental Engineering and Management Journal, 2008, 7, 595-601.	0.6	15
17	GHG EMISSIONS EVALUATION FROM FOSSIL FUEL WITH CCS. Environmental Engineering and Management Journal, 2009, 8, 81-89.	0.6	14
18	EVALUATION OF CORROSIVE EFFECTS IN CO-FIRING PROCESS OF BIOMASS AND COAL. Environmental Engineering and Management Journal, 2009, 8, 1485-1490.	0.6	10

#	ARTICLE	IF	CITATIONS
19	Mathematical model and experimental tests of hydrogen diffusion in the porous system of biomass. International Journal of Green Energy, 2016, 13, 774-780.	3.8	9
20	Integrating Energy Storage Systems and Transmission Expansion Planning in Renewable Energy Sources Power Systems. , 2019, , .		8
21	RESEARCH ON THE COMBUSTION OF CRUDE VEGETABLE OILS FOR ENERGETIC PURPOSES. Environmental Engineering and Management Journal, 2009, 8, 475-482.	0.6	8
22	The Influence of Hydrogen on Vaporization, Mixture Formation and Combustion of Diesel Fuel at an Automotive Diesel Engine. Sustainability, 2021, 13, 202.	3.2	8
23	Computer Aided Instrument to be Used as an Automatic Design Component. Advanced Materials Research, 2014, 1036, 1017-1022.	0.3	7
24	Influence on the power quality of the connection of wind power into the electricity grid transmission. , 2014, , .		6
25	Decarbonization of Low Power Applications through Methanation Facilities Integration. , 2019, , .		6
26	Design of a Fuzzy Logic Controller for a Remote Power Application. , 2019, , .		6
27	Numerical Analysis of a Solar Tower Receiver Novel Design. Sustainability, 2020, 12, 6957.	3.2	6
28	Comparative study of airfoil profile effect on the aerodynamic performance of small scale wind turbines. , 2021, , .		6
29	Researches on biofuels gasification using the Lurgi process with homogeneous air inlet over the combustion space. E3S Web of Conferences, 2020, 180, 01011.	0.5	6
30	Influence of the characteristics of biogas generated in the leather industry on combustion quality. Thermal Science, 2018, 22, 1349-1357.	1.1	6
31	EXPERIMENTAL STUDIES ON THE CORROSION OCCURRENCE DURING BIOMASS COMBUSTION PROCESS. Environmental Engineering and Management Journal, 2012, 11, 1555-1560.	0.6	6
32	Modeling and control of a low power wind turbine. , 2018, , .		5
33	Highlights of renewable energy integration impact : Evolution and perspectives in Romania. , 2020, , .		5
34	Conceiving a hybrid model of a weighting device. , 2015, , .		4
35	Increasing RESs Share Using Generation and Transmission Expansion Planning - Stochastic Approach. , 2019, , .		4
36	Wind Blade Twist Correction for Enhanced Annual Energy Production of Wind Turbines. Sustainability, 2021, 13, 6931.	3.2	4

#	ARTICLE	IF	CITATIONS
37	RESEARCHES ON THE NEGATIVE EFFECTS ASSESSMENT (SLUGGING, CLOGGING, ASH DEPOSITS) DEVELOPED AT THE BIOMASS-COAL CO-FIRING. Environmental Engineering and Management Journal, 2010, 9, 17-26.	0.6	4
38	Unitary management and environmental performance by monitoring and protection of mineral resources for construction materials from Romania. Building and Environment, 2008, 43, 1082-1090.	6.9	3
39	HVDC transmission corridor — Cost benefit analysis. , 2014, , .		3
40	Aspects of the animal fat use at the diesel engine fuelling. , 2015, , .		3
41	Possibilities of connection for the offshore wind power plants: Comparison between HVAC and HVDC-LCC. , 2017, , .		3
42	RESs Integration and Transmission Expansion Planning Considering Load Shedding Costs. , 2019, , .		3
43	Adaptive voltage control of islanded RES-based residential microgrid with integrated flywheel/battery hybrid energy storage system. , 2020, , .		3
44	Comparative analysis of carbon dioxide methanation technologies for low carbon society development. , 2020, , .		3
45	Influence of energy characteristics of biogas obtained by anaerobic fermentation of animal proteins on combustion performance. , 2017, , .		2
46	Dynamic Simulation of a Stand-Alone Photovoltaic/Battery Energy Storage System. , 2018, , .		2
47	Methanation technology integration in renewable smart grids. , 2021, , .		2
48	A Matlab-Simulink Analysis of Hybrid SOFC Dynamic Behavior. , 2005, , 245.		1
49	Hydrogen — An energy vector in efficient combustion of energy willow. , 2014, , .		1
50	Solution for efficient combustion of the biogas obtained depending on the characteristics of the anaerobic fermentation of animal protein. , 2017, , .		1
51	The energy method to protect the environment from waste in the leather industry. , 2017, , .		1
52	Experimental researches on poultry manure combustion in co-combustion with biomass. E3S Web of Conferences, 2021, 286, 02013.	0.5	1
53	Structure of the Energy Produced from Renewable Sources. , 2021, , 1-19.		1
54	Experimental Research of Combustion of Poultry Manure. , 2021, , 213-219.		1

#	ARTICLE	IF	CITATIONS
55	General data structure for the dynamic memory allocation in the development of the computer based models in engineering. , 2018, , .		1
56	New design of a flame-tube steam generator based on a hot water boiler burning agricultural waste. , 2020, , .		1
57	Secondary regulation prices on Romanian Balancing Market. A comparison between actual wholesale electricity commercial code and proposed (under discussion) wholesale electricity commercial code. , 2014, , .		0
58	Finite elements model of a rotating half-bridge belonging to a circular settling tank. IOP Conference Series: Materials Science and Engineering, 2016, 145, 042007.	0.6	0
59	Model of the hydrodynamic loads applied on a rotating half-bridge belonging to a circular settling tank. IOP Conference Series: Materials Science and Engineering, 2016, 145, 042008.	0.6	0
60	Researches on the mixture limits of animal fats with liquid hydrocarbons for combustion at industrial level. E3S Web of Conferences, 2019, 112, 02001.	0.5	0
61	Conceptual matrix for the biofuels of the future applicable to the Romanian economy. E3S Web of Conferences, 2019, 112, 02002.	0.5	0
62	Defining of criteria for flue gas decarbonization efficiency in methanation reactors with membrane technology. E3S Web of Conferences, 2021, 286, 02014.	0.5	0
63	The Matrix of Energy Biofuels. , 2021, , 21-43.		0
64	Experimental Tests on the Combustion of Animal Fats. , 2021, , 103-148.		0
65	Combined Combustion Required for Energy Fuels. , 2021, , 75-101.		0
66	Informatics Applications for Efficient Exploitation of Forestry Fund. , 2021, , 395-414.		0
67	The Technological Matrix for the Efficient Use of Biofuels. , 2021, , 45-74.		0
68	THE PROTECTION OF EQUIPMENTS USING VOLATILE INHIBITORS. Environmental Engineering and Management Journal, 2011, 10, 319-324.	0.6	0
69	O analiză a modelelor de energie pentru servere dintr-un centru de date. Revista Română De Informatică È™i Automatică, 2020, 30, 109-120.	0.2	0