

Karol Balog

List of Publications by Year in descending order

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54
papers

213
citations

1307594

7
h-index

1199594

12
g-index

55
all docs

55
docs citations

55
times ranked

209
citing authors

#	ARTICLE	IF	CITATIONS
1	The influence of spruce wood heat treatment on its thermal stability and burning process. <i>European Journal of Wood and Wood Products</i> , 2014, 72, 477-486.	2.9	30
2	An assessment of petrol fire risk by oxygen consumption calorimetry. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 117, 325-332.	3.6	20
3	Calorific value and fire risk of selected fast-growing wood species. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 131, 899-906.	3.6	20
4	Cyclodextrin derivative of hyaluronan. <i>Carbohydrate Polymers</i> , 1999, 39, 17-24.	10.2	19
5	The Relations between Polycyclic Aromatic Hydrocarbons Exposure and 1-OHP Levels as a Biomarker of the Exposure. <i>Central European Journal of Public Health</i> , 2016, 24, 302-307.	1.1	14
6	Effect of oxygen concentration and temperature on ignition time of polypropylene. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012, 110, 485-487.	3.6	10
7	New aspects in cationization of lignocellulose materials. IX. Flame retardancy effect of modification with nitrogen and sulfur containing groups. <i>Journal of Applied Polymer Science</i> , 1987, 34, 1057-1061.	2.6	9
8	Flame retardancy effect of crosslinking of lignocellulose materials. <i>Journal of Applied Polymer Science</i> , 1990, 41, 1333-1337.	2.6	8
9	Fire Risk Assessment of Spruce Pellets. <i>Applied Mechanics and Materials</i> , 0, 501-504, 2451-2454.	0.2	8
10	Thermal Degradation and Thermooxidation of O-Acetyl-(4-O-methyl-D-glucurono)-D-xylan and Related Derivatives. <i>Holzforschung</i> , 1995, 49, 512-516.	1.9	7
11	Influence of anionic form on thermooxidation of TMAHPâ€“cellulose. <i>Journal of Applied Polymer Science</i> , 1985, 30, 4713-4721.	2.6	6
12	A Comparison of the Behaviour of Spruce Wood and Polyolefins during the Test on the Cone Calorimeter. <i>Advanced Materials Research</i> , 2013, 726-731, 4280-4287.	0.3	5
13	Moment of Lignocellulosic Materials Ignition Defined by Critical Mass Flow Rate. <i>Applied Mechanics and Materials</i> , 0, 291-294, 1985-1988.	0.2	5
14	Thermogravimetric analysis of cellulose insulation and determination of activation energy of its thermo-oxidation using non-isothermal, model-free methods. <i>Polymers for Advanced Technologies</i> , 2014, 25, 1169-1174.	3.2	5
15	Application of thermal analysis procedures to the study of pyrolytic and flammability of some polymers. <i>Thermochimica Acta</i> , 1985, 93, 167-170.	2.7	4
16	Thermoanalytical investigation of grafted polypropylene with fixed flame retardant compounds. <i>Thermochimica Acta</i> , 1985, 93, 171-174.	2.7	4
17	DETERMINATION OF NITROAROMATIC COMPOUNDS IN SOIL SAMPLES BY HPLC, USING ON-LINE PRECONCENTRATION. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2002, 25, 3177-3185.	1.0	4
18	A Fire Risk Assessment for Bio Ethyl Tert-Butyl Ether (ETBE). <i>Procedia Engineering</i> , 2014, 69, 616-621.	1.2	4

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19	Biodiesel Production from Waste Cooking Oil in Laboratory Scale. Applied Mechanics and Materials, 2013, 448-453, 1656-1659.	0.2	3
20	Flame Retardancy Effect of Elemental Sulphur Caused by Covering the Lignocellulose Materials. Holzforschung, 1991, 45, 367-370.	1.9	2
21	Assessment of Functionality of Aged Cables at Loading by Heat Flux. Advanced Materials Research, 0, 652-654, 508-511.	0.3	2
22	Activation Energy of Pure and Impregnated Lignocellulosic Materials Obtained by Isothermal Method. Advanced Materials Research, 0, 690-693, 1179-1183.	0.3	2
23	Assessment of Wood Materials Modified by Flame Retardants at Loading by Heat Flux. Advanced Materials Research, 0, 1001, 272-275.	0.3	2
24	Experimental Analysis of Minimum Ignition Temperature of Dust Cloud Obtained from Thermally Modified Spruce Wood. Advanced Materials Research, 2014, 919-921, 2057-2060.	0.3	2
25	Fire hazard and heat of combustion of sunflower seed hull pellets. Journal of Thermal Analysis and Calorimetry, 2017, 130, 1531-1540.	3.6	2
26	A New Approach to the Assessment of the Reduction in Visibility Caused by Fires of Electrical Cables. Safety, 2019, 5, 44.	1.7	2
27	Analytical tool for risk assessment of landscape and urban planning: Spatial development impact assessment. Open Engineering, 2011, 1, .	1.6	1
28	Monitoring of Thermal Degradation of Fireproof Coating. Advanced Materials Research, 0, 598, 379-383.	0.3	1
29	Evaluation of Catalytic Properties of Red Mud. Advanced Materials Research, 0, 749, 99-105.	0.3	1
30	Study of Thermal Degradation of Polymers. Advanced Materials Research, 0, 652-654, 1664-1667.	0.3	1
31	Effects of Retardants on the Ignition of Wood Materials. Advanced Materials Research, 2014, 1001, 288-291.	0.3	1
32	Thermal Decomposition of Loose-Fill Cellulose Thermal Insulation. Advanced Materials Research, 0, 1001, 379-382.	0.3	1
33	Development of the Hexagonal Structure in the Processes of Improving Vibration Insulating Properties of Products. Applied Mechanics and Materials, 0, 525, 536-540.	0.2	1
34	Thermal Properties of Lignocellulose Pellets. Research Papers Faculty of Materials Science and Technology Slovak University of Technology in Trnava, 2017, 25, 83-90.	0.4	1
35	Monitoring of the Cellulose Pyrolysis in a Modified Electrically Heated Hot Air Furnace. Safety Engineering, 2011, 1, 27-33.	0.1	1
36	Thermooxidation of TMAHP-cellulose in dependence to its anionic form. Thermochemica Acta, 1985, 93, 421-424.	2.7	0

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37	Investigation of Airflow Influence on Self-Heating Process of Linseed Oil Using Safety Calorimeter SEDEX. Advanced Materials Research, 2013, 690-693, 1340-1344.	0.3	0
38	Study of Effect of Flame Retardants on Initiation Process of Lignocellulose Materials at Heat Flux Acting. Applied Mechanics and Materials, 0, 291-294, 744-747.	0.2	0
39	Study of Hydrogen Production Using Photovoltaic. Applied Mechanics and Materials, 2013, 291-294, 593-596.	0.2	0
40	Study of Thermal Stability of Magnesium Alloys. Advanced Materials Research, 0, 690-693, 74-77.	0.3	0
41	Comparison of Optical Smoke Density of Expanded Polystyrene without and with Cover Components Used in ETICS. Advanced Materials Research, 0, 724-725, 1625-1629.	0.3	0
42	Influence of the Position of Ignition Source on the Raw Materials Used to Produce Biofuel in Form of Wood Pellets. Applied Mechanics and Materials, 2014, 693, 335-339.	0.2	0
43	Hazards of Explosibility Dust from Wood Pellets. Advanced Materials Research, 0, 1001, 324-329.	0.3	0
44	Hazard Analysis in Phenol Removal from Natural Water Sources. Advanced Materials Research, 2014, 1001, 75-79.	0.3	0
45	FTA<sup>e</sup></sup> Fault Tree Analysis in Microsoft Excel. Advanced Materials Research, 0, 889-890, 591-594.	0.3	0
46	Evaluation of the Security Situation Abroad by the FMEA Method and Impact of Natural or Technical Threats on the Environment. Advanced Materials Research, 0, 1001, 469-474.	0.3	0
47	Removal Of Phenol From Wastewater By Using Low-Cost Catalyst From Metal Production. Research Papers Faculty of Materials Science and Technology Slovak University of Technology in Trnava, 2014, 22, 55-59.	0.4	0
48	Environmental Friendly Degradation of Atrazine by Ozone and Identification of Main Degradation Products. Advanced Materials Research, 2014, 1001, 52-57.	0.3	0
49	Analysis of Human Factors Applied to Work Activities of a Welder in a Small Plant Oriented to Manufacture of Weldments from Recycled Materials. Advanced Materials Research, 0, 1001, 395-400.	0.3	0
50	Practical Guide for Safety on Construction Site. Advances in Intelligent Systems and Computing, 2016, , 231-242.	0.6	0
51	Flammability Parameters of Candles. Research Papers Faculty of Materials Science and Technology Slovak University of Technology in Trnava, 2017, 25, 55-61.	0.4	0
52	Fire Risk of Halogen-Free Electrical Cable. Research Papers Faculty of Materials Science and Technology Slovak University of Technology in Trnava, 2018, 26, 21-27.	0.4	0
53	Human Performance Tools Used as Incident Prevention Applied to a Construction Phase of a Nuclear Power Plant Mochovce. Research Papers Faculty of Materials Science and Technology Slovak University of Technology in Trnava, 2019, 27, 87-95.	0.4	0
54	Energy potential of the Fischer-Tropsch fuel produced from spruce wood.. Wood Research, 2020, 65, 895-904.	0.6	0