

Bojan Z Jankovic

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

80
papers

612
citations

13
h-index

22
g-index

81
ext. papers

714
ext. citations

3.5
avg, IF

4.69
L-index

#	Paper	IF	Citations
80	Thermal characteristics and combustion reactivity of coronavirus face masks using TG-DTG-MS analysis.. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022 , 1-13	4.1	1
79	The assessment of synergistic effect on performing the co-pyrolysis process of coal and waste blends based on thermal analysis. <i>Thermal Science</i> , 2021 , 310-310	1.2	0
78	Model-free and model-based kinetic analysis of Poplar fluff (<i>Populus alba</i>) pyrolysis process under dynamic conditions. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 143, 3419-3438	4.1	7
77	Model-free and model-based analysis of thermo-oxidative response of wolfberries: A new developed mechanistic scheme. <i>Food Chemistry</i> , 2021 , 343, 128530	8.5	0
76	Experimental study of low-rank coals using simultaneous thermal analysis (TG-DTA) techniques under air conditions and radiation level characterization. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 142, 547-564	4.1	4
75	Thermo-oxidative evolution and physico-chemical characterization of seashell waste for application in commercial sectors. <i>Thermochimica Acta</i> , 2020 , 686, 178568	2.9	5
74	Apricot kernel shells pyrolysis controlled by non-isothermal simultaneous thermal analysis (STA). <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 142, 565-579	4.1	6
73	Carbon dioxide activation of the plane tree seeds derived bio-char: Kinetic properties and application. <i>Thermal Science</i> , 2020 , 24, 3807-3821	1.2	1
72	Thermogravimetric study on the pyrolysis kinetic mechanism of waste biomass from fruit processing industry. <i>Thermal Science</i> , 2020 , 24, 4221-4239	1.2	6
71	Thermo-Analytical Characterization of Various Biomass Feedstocks for Assessments of Light Gaseous Compounds and Solid Residues. <i>Lecture Notes in Networks and Systems</i> , 2020 , 139-165	0.5	
70	The gaseous products characterization of the pyrolysis process of various agricultural residues using TG-DSC-MS techniques. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 139, 3091-3106	4.1	10
69	Characterization analysis of activated carbon derived from the carbonization process of plane tree (<i>Platanus orientalis</i>) seeds. <i>Energy and Environment</i> , 2020 , 31, 583-612	2.4	3
68	Kinetic study of oxy-combustion of plane tree (<i>Platanus orientalis</i>) seeds (PTS) in O ₂ /Ar atmosphere. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 142, 953-976	4.1	2
67	Dehydration of rhyolite: activation energy, water speciation and morphological investigation. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 142, 395-407	4.1	2
66	Transformation of Matter and Energy in Crops Under the Influence of Brassinosteroids 2019 , 251-295		
65	TGA-DSC-MS analysis of pyrolysis process of various agricultural residues. <i>Thermal Science</i> , 2019 , 23, 1457-1472	1.2	7
64	TGA-DSC-MS Analysis of Pyrolysis Process of Various Biomasses with Isoconversional (Model-Free) Kinetics. <i>Lecture Notes in Networks and Systems</i> , 2019 , 16-33	0.5	2

63	Analysis of transition from low to high iodide and iodine state in the Briggs-Rauscher oscillatory reaction containing malonic acid using Kolmogorov-Johnson-Mehl-Avrami (KJMA) theory. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2018 , 123, 61-80	1.6	3
62	Characterization analysis of raw and pyrolyzed plane tree seed (<i>Platanus orientalis</i> L.) samples for its application in carbon capture and storage (CCS) technology. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018 , 133, 465-480	4.1	4
61	Thermal analysis testing and natural radioactivity characterization of kaolin as building material. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018 , 133, 481-487	4.1	4
60	Kinetic and reactivity distribution behaviors during curing process of carbon/epoxy composite with thermoplastic interface coatings (T800/3900-2 prepreg) under the nonisothermal conditions. <i>Polymer Composites</i> , 2018 , 39, 201-220	3	7
59	Reliable method for determining the complete kinetic and thermodynamic information for thermal degradation of polymers in a multi-step process. <i>Colloid and Polymer Science</i> , 2018 , 296, 1459-1477	2.4	1
58	Comparative pyrolysis kinetics of various biomasses based on model-free and DAEM approaches improved with numerical optimization procedure. <i>PLoS ONE</i> , 2018 , 13, e0206657	3.7	29
57	Distribution of apparent activation energy counterparts during thermo - And thermo-oxidative degradation of <i>Aronia melanocarpa</i> (black chokeberry). <i>Food Chemistry</i> , 2017 , 230, 30-39	8.5	3
56	Ethylene-Propylene-Diene Rubber-Based Nanoblends: Preparation, Characterization and Applications. <i>Springer Series on Polymer and Composite Materials</i> , 2017 , 281-349	0.9	1
55	New insights in dehydration stress behavior of two maize hybrids using advanced distributed reactivity model (DRM). Responses to the impact of 24-epibrassinolide. <i>PLoS ONE</i> , 2017 , 12, e0179650	3.7	1
54	Influence of 24-epibrassinolide on seedling growth and distribution of mineral elements in two maize hybrids. <i>Hemijaska Industrija</i> , 2017 , 71, 201-209	0.6	5
53	On-line pyrolysis kinetics of swine manure solid samples collected from rearing farm. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016 , 123, 2103-2120	4.1	4
52	Kinetic Analysis of Nonisothermal Reduction of Silica-Supported Nickel Catalyst Precursors in a Hydrogen Atmosphere. <i>Chemical Engineering Communications</i> , 2016 , 203, 182-199	2.2	1
51	Comprehensive characterization of BiFeO ₃ powder synthesized by the hydrothermal procedure. <i>Processing and Application of Ceramics</i> , 2016 , 10, 201-208	1.4	11
50	Application of the Kinetic Triplets and Geometrical Characteristics of Thermal Analysis Curves in Identifying the Main Bioactive Compounds (BC) that Govern the Thermal and Thermo-Oxidative Degradation Mechanism of <i>Aronia melanocarpa</i> (Black Chokeberry). <i>Food Biophysics</i> , 2016 , 11, 128-141	3.2	
49	TG-DTA-FTIR analysis and isoconversional reaction profiles for thermal and thermo-oxidative degradation processes in black chokeberry (<i>Aronia melanocarpa</i>). <i>Chemical Papers</i> , 2016 , 70,	1.9	3
48	Kinetic study of isothermal crystallization process of Gd ₂ Ti ₂ O ₇ precursor powder prepared through the Pechini synthetic approach. <i>Journal of Physics and Chemistry of Solids</i> , 2015 , 85, 160-172	3.9	4
47	Pyrolysis of pine and beech wood under isothermal conditions: the conventional kinetic approach. <i>Research on Chemical Intermediates</i> , 2015 , 41, 2201-2219	2.8	7
46	Estimation of the distribution of reactivity for powdered cellulose pyrolysis in isothermal experimental conditions using the Bayesian inference. <i>Cellulose</i> , 2015 , 22, 2283-2303	5.5	2

45	Kinetic Analysis of Isothermal Decomposition Process of Zinc Leach Residue in an Inert Atmosphere. The Estimation of the Apparent Activation Energy Distribution. <i>Mineral Processing and Extractive Metallurgy Review</i> , 2014 , 35, 239-256	3.1	2
44	The pyrolysis process of wood biomass samples under isothermal experimental conditions—energy density considerations: application of the distributed apparent activation energy model with a mixture of distribution functions. <i>Cellulose</i> , 2014 , 21, 2285-2314	5.5	22
43	Kinetic-Statistical Approach in a Detailed Study of the Mechanism of Thermal Decomposition of Zinc-Iron-Intermetallic Phase. <i>Transactions of the Indian Institute of Metals</i> , 2014 , 67, 629-650	1.2	1
42	Non-isothermal reduction of silica-supported nickel catalyst precursors in hydrogen atmosphere: a kinetic study and statistical interpretation. <i>Journal of the Iranian Chemical Society</i> , 2014 , 11, 1743-1758	2	3
41	Study of non-isothermal crystallization of Eu ³⁺ doped Zn ₂ SiO ₄ powders through the application of various macrokinetic models. <i>Journal of Alloys and Compounds</i> , 2014 , 587, 398-414	5.7	4
40	Kinetic and thermodynamic investigations of non-isothermal decomposition process of a commercial silver nitrate in an argon atmosphere used as the precursors for ultrasonic spray pyrolysis (USP): The mechanistic approach. <i>Chemical Engineering and Processing: Process Intensification</i> , 2014 , 82, 71-87	3.7	15
39	Kinetic study of the crystallization process of the δ -Fe phase in the amorphous Fe ₈₁ B ₁₃ Si ₄ C ₂ alloy. <i>Military Technical Courier</i> , 2014 , 62, 56-73	0.7	1
38	Kinetic modeling of native Cassava starch thermo-oxidative degradation using Weibull and Weibull-derived models. <i>Biopolymers</i> , 2014 , 101, 41-57	2.2	5
37	Evaluations of the apparent activation energy distribution function for the nonisothermal reduction of nickel oxide nano-powders. <i>Military Technical Courier</i> , 2014 , 62, 167-193	0.7	
36	Thermal characterization and isothermal kinetic analysis of commercial Creosote decomposition process. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014 , 115, 823-832	4.1	3
35	The kinetic and thermodynamic analyses of non-isothermal degradation process of acrylonitrile-Butadiene and ethylene-Propylene-Diene rubbers. <i>Composites Part B: Engineering</i> , 2013 , 45, 321-332	10	25
34	Thermal characterization and kinetic analysis of non-isothermal decomposition process of Bauxite red mud. Estimation of density distribution function of the apparent activation energy. <i>International Journal of Mineral Processing</i> , 2013 , 123, 46-59		23
33	The kinetic modeling of the non-isothermal pyrolysis of Brazilian oil shale: Application of the Weibull probability mixture model. <i>Journal of Petroleum Science and Engineering</i> , 2013 , 111, 25-36	4.4	24
32	The comparative kinetic analysis of the non-isothermal crystallization process of Eu ³⁺ + doped Zn ₂ SiO ₄ powders prepared via polymer induced sol-gel method. <i>Powder Technology</i> , 2013 , 249, 497-512	5.2	18
31	Thermal characterization and detailed kinetic analysis of Cassava starch thermo-oxidative degradation. <i>Carbohydrate Polymers</i> , 2013 , 95, 621-9	10.3	51
30	Kinetic and thermodynamic analysis of Creosote degradation process under isothermal experimental conditions. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2013 , 48, 1437-49	2.3	
29	Tritium concentration analysis in atmospheric precipitation in Serbia. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2012 , 47, 669-74	2.3	5
28	The comparative kinetic analysis of non-isothermal degradation process of acrylonitrile-Butadiene and ethylene-Propylene-Diene rubber compounds. Part I. <i>Thermochimica Acta</i> , 2012 , 543, 295-303	2.9	12

27	The comparative kinetic analysis of non-isothermal degradation process of acrylonitrileButadiene/ethylenePropyleneDiene rubber blends reinforced with carbon black/silica fillers. Part II. <i>Thermochimica Acta</i> , 2012 , 543, 304-312	2.9	21
26	The application of the formalism of dispersive kinetics for investigation of the isothermal decomposition of zinc leach residue in an inert atmosphere. <i>Thermochimica Acta</i> , 2012 , 546, 102-112	2.9	4
25	Kinetic analysis of nonisothermal degradation of acrylonitrileButadiene/ethylenePropyleneDiene rubber blends reinforced with carbon black filler. <i>Polymer Composites</i> , 2012 , 33, 1233-1243	3	3
24	The comparative kinetic analysis of Acetocell and Lignoboost [®] lignin pyrolysis: the estimation of the distributed reactivity models. <i>Bioresource Technology</i> , 2011 , 102, 9763-71	11	26
23	Thermal degradation process of the cured phenolic triazine thermoset resin (Primaset [®] PT-30). Part I. Systematic non-isothermal kinetic analysis. <i>Thermochimica Acta</i> , 2011 , 519, 114-124	2.9	10
22	The comparative kinetic study of non-isothermal and isothermal dehydration of swollen poly(acrylic acid) hydrogel using the Weibull probability function. <i>Chemical Engineering Research and Design</i> , 2011 , 89, 373-383	5.5	6
21	The non-isothermal combustion process of hydrogen peroxide treated animal bones. Kinetic analysis. <i>Thermochimica Acta</i> , 2011 , 521, 130-138	2.9	7
20	Thermal stability and nonisothermal kinetics of Folvax degradation process. <i>Drug Development and Industrial Pharmacy</i> , 2010 , 36, 980-92	3.6	3
19	The kinetic analysis of isothermal curing reaction of an unsaturated polyester resin: Estimation of the density distribution function of the apparent activation energy. <i>Chemical Engineering Journal</i> , 2010 , 162, 331-340	14.7	42
18	Identification of the effective distribution function for determination of the distributed activation energy models using Bayesian statistics: Application of isothermal thermogravimetric data. <i>International Journal of Chemical Kinetics</i> , 2010 , 42, 641-658	1.4	1
17	Kinetics of the apparent isothermal and non-isothermal crystallization of the β -Fe phase within the amorphous Fe ₈₁ B ₁₃ Si ₄ C ₂ alloy. <i>Journal of Physics and Chemistry of Solids</i> , 2010 , 71, 927-934	3.9	8
16	The non-isothermal thermogravimetric tests of animal bones combustion. Part II. Statistical analysis: Application of the Weibull mixture model. <i>Thermochimica Acta</i> , 2010 , 505, 98-105	2.9	12
15	Identification of the effective distribution function for determination of the distributed activation energy models using the maximum likelihood method: Isothermal thermogravimetric data. <i>International Journal of Chemical Kinetics</i> , 2009 , 41, 27-44	1.4	7
14	Application of the Weibull distribution function for modeling the kinetics of isothermal dehydration of equilibrium swollen poly (acrylic acid) hydrogel. <i>Reactive and Functional Polymers</i> , 2009 , 69, 151-158	4.6	7
13	A kinetic study of the isothermal degradation process of Lexan [®] using the conventional and Weibull kinetic analysis. <i>Journal of Polymer Research</i> , 2009 , 16, 213-230	2.7	7
12	A Kinetic Study of the Nonisothermal Decomposition of Palladium Acetylacetonate Investigated by Thermogravimetric and X-Ray Diffraction Analysis Determination of Distributed Reactivity Model. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2009 , 40, 609-624	2.3	10
11	Kinetic Analysis of Isothermal Decomposition Process of Sodium Bicarbonate Using the Weibull Probability Function Estimation of Density Distribution Functions of the Apparent Activation Energies. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2009 , 40, 712-726	2.5	8
10	The non-isothermal thermogravimetric tests of animal bones combustion. Part. I. Kinetic analysis. <i>Thermochimica Acta</i> , 2009 , 495, 129-138	2.9	30

9	Nonisothermal Degradation of Zetaplus Impression Material: Kinetic Aspects. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 7044-7053	3.9	6
8	A New Method for Evaluation of the Isothermal Conversion Curves from the Nonisothermal Measurements. Application in Nickel Oxide Reduction Kinetics. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 1420-1427	3.9	3
7	Determination of Density Distribution Functions of the Apparent Activation Energies for Nonisothermal Decomposition Process of Sodium Bicarbonate Using the Weibull Probability Function. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2008 , 39, 75-86	2.5	3
6	Dispersive kinetic model for the non-isothermal reduction of nickel oxide by hydrogen. <i>Physica B: Condensed Matter</i> , 2008 , 403, 4132-4138	2.8	7
5	The use of the IKP method for evaluating the kinetic parameters and the conversion function of the thermal decomposition of NaHCO ₃ from nonisothermal thermogravimetric data. <i>International Journal of Chemical Kinetics</i> , 2007 , 39, 462-471	1.4	20
4	The impact of production operating parameters on mechanical and thermophysical characteristics of commercial wood pellets. <i>Biomass Conversion and Biorefinery</i> , 1	2.3	1
3	Kinetic and thermodynamic analysis of thermo-oxidative degradation of seashell powders with different particle size fractions: compensation effect and iso-equilibrium phenomena. <i>Journal of Thermal Analysis and Calorimetry</i> , 1	4.1	
2	The kinetic study of juice industry residues drying process based on TGA-DTG experimental data. <i>Journal of Thermal Analysis and Calorimetry</i> , 1	4.1	0
1	Pyrolysis kinetics of [4-(hydroxymethyl)phenoxyethyl]polystyrene (Wang) resin using master-plot method and distributed reactivity model. <i>Polymer Bulletin</i> , 1	2.4	