

Bojan Å^{1/2} JankoviÄ

List of Publications by Year in descending order

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81
papers

820
citations

516215

16
h-index

610482

24
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81
all docs

81
docs citations

81
times ranked

1063
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal characterization and detailed kinetic analysis of Cassava starch thermo-oxidative degradation. <i>Carbohydrate Polymers</i> , 2013, 95, 621-629.	5.1	56
2	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.	6.6	49
3	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.	1.1	48
4	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.	5.9	31
5	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.	2.1	31
6	Comprehensive characterization of BiFeO ₃ powder synthesized by the hydrothermal procedure. <i>Processing and Application of Ceramics</i> , 2016, 10, 201-208.	0.4	31
7	The non-isothermal thermogravimetric tests of animal bones combustion. Part. I. Kinetic analysis. <i>Thermochimica Acta</i> , 2009, 495, 129-138.	1.2	30
8	The comparative kinetic analysis of Acetocell and Lignoboost [®] lignin pyrolysis: The estimation of the distributed reactivity models. <i>Bioresource Technology</i> , 2011, 102, 9763-9771.	4.8	27
9	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.	2.6	26
10	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.	2.4	26
11	The comparative kinetic analysis of non-isothermal degradation process of acrylonitrile-butadiene/ethylene-propylene diene rubber blends reinforced with carbon black/silica fillers. Part II. <i>Thermochimica Acta</i> , 2012, 543, 304-312.	1.2	24
12	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.	1.0	21
13	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.	2.0	21
14	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.	2.1	20
15	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.	1.8	20
16	Apricot kernel shells pyrolysis controlled by non-isothermal simultaneous thermal analysis (STA). <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 142, 565-579.	2.0	19
17	The gaseous products characterization of the pyrolysis process of various agricultural residues using TGA-DSC-MS techniques. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 3091-3106.	2.0	16
18	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.	1.2	15

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19	TGA-DSC-MS analysis of pyrolysis process of various agricultural residues. <i>Thermal Science</i> , 2019, 23, 1457-1472.	0.5	15
20	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.	1.2	14
21	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.	1.0	12
22	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.	1.2	12
23	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.	1.1	11
24	Pyrolysis of pine and beech wood under isothermal conditions: the conventional kinetic approach. <i>Research on Chemical Intermediates</i> , 2015, 41, 2201-2219.	1.3	11
25	Kinetic and reactivity distribution behaviors during curing process of carbon/epoxy composite with thermoplastic interface coatings (T800/3900 prepreg) under the nonisothermal conditions. <i>Polymer Composites</i> , 2018, 39, 201-220.	2.3	11
26	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.	1.2	10
27	Influence of 24-epibrassinolide on seedling growth and distribution of mineral elements in two maize hybrids. <i>Hemijrska Industrija</i> , 2017, 71, 201-209.	0.3	10
28	Dispersive kinetic model for the non-isothermal reduction of nickel oxide by hydrogen. <i>Physica B: Condensed Matter</i> , 2008, 403, 4132-4138.	1.3	9
29	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.	2.0	9
30	The non-isothermal combustion process of hydrogen peroxide treated animal bones. Kinetic analysis. <i>Thermochimica Acta</i> , 2011, 521, 130-138.	1.2	9
31	Thermogravimetric study on the pyrolysis kinetic mechanism of waste biomass from fruit processing industry. <i>Thermal Science</i> , 2020, 24, 4221-4239.	0.5	9
32	Kinetics of the apparent isothermal and non-isothermal crystallization of the $\hat{1}\pm$ -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.	1.9	8
33	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.	2.7	8
34	Thermo-oxidative evolution and physico-chemical characterization of seashell waste for application in commercial sectors. <i>Thermochimica Acta</i> , 2020, 686, 178568.	1.2	8
35	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.	1.0	7
36	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.	2.0	7

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37	Nonisothermal Degradation of Zetaplus Impression Material: Kinetic Aspects. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 7044-7053.	1.8	6
38	The comparative kinetic study of non-isothermal and isothermal dehydration of swollen poly(acrylic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 2011, 89, 373-383.	2.7	6
39	Kinetic study of isothermal crystallization process of Gd ₂ Ti ₂ O ₇ precursor's powder prepared through the Pechini synthetic approach. <i>Journal of Physics and Chemistry of Solids</i> , 2015, 85, 160-172.	1.9	6
40	Thermal analysis testing and natural radioactivity characterization of kaolin as building material. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 133, 481-487.	2.0	6
41	Dehydration of rhyolite: activation energy, water speciation and morphological investigation. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 142, 395-407.	2.0	6
42	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.	2.0	6
43	Thermo-Analytical and Compatibility Study with Mechanistic Explanation of Degradation Kinetics of Ambroxol Hydrochloride Tablets under Non-Isothermal Conditions. <i>Pharmaceutics</i> , 2021, 13, 1910.	2.0	6
44	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, 669-674.	0.9	5
45	Kinetic modeling of native <i>Cassava</i> starch thermo–oxidative degradation using Weibull and Weibull–derived models. <i>Biopolymers</i> , 2014, 101, 41-57.	1.2	5
46	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.	2.6	5
47	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.	2.0	5
48	Thermal characteristics and combustion reactivity of coronavirus face masks using TG-DTG-MS analysis. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 10131-10143.	2.0	5
49	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.	1.8	4
50	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.	1.2	4
51	Kinetic analysis of nonisothermal degradation of acrylonitrile–butadiene–ethylene–propylene–diene rubber blends reinforced with carbon black filler. <i>Polymer Composites</i> , 2012, 33, 1233-1243.	2.3	4
52	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.	2.8	4
53	TG-DTA-FTIR analysis and isoconversional reaction profiles for thermal and thermo-oxidative degradation processes in black chokeberry (<i>Aroniamelanocarpa</i>). <i>Chemical Papers</i> , 2016, 70, .	1.0	4
54	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.	0.8	4

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55	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.	2.0	4
56	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.	1.0	3
57	Thermal stability and nonisothermal kinetics of Folvax [®] degradation process. <i>Drug Development and Industrial Pharmacy</i> , 2010, 36, 980-992.	0.9	3
58	Thermal characterization and isothermal kinetic analysis of commercial Creosote decomposition process. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 115, 823-832.	2.0	3
59	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.	1.2	3
60	Distribution of apparent activation energy counterparts during thermo-oxidative degradation of <i>Aronia melanocarpa</i> (black chokeberry). <i>Food Chemistry</i> , 2017, 230, 30-39.	4.2	3
61	The impact of production operating parameters on mechanical and thermophysical characteristics of commercial wood pellets. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 5787-5803.	2.9	3
62	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.	2.4	2
63	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
64	Model-free and model-based analysis of thermo-oxidative response of wolfberries: A new developed mechanistic scheme. <i>Food Chemistry</i> , 2021, 343, 128530.	4.2	2
65	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.	1.0	1
66	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.	0.3	1
67	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.	0.7	1
68	Kinetic Analysis of Nonisothermal Reduction of Silica-Supported Nickel Catalyst Precursors in a Hydrogen Atmosphere. <i>Chemical Engineering Communications</i> , 2016, 203, 182-199.	1.5	1
69	Ethylene-Propylene-Diene Rubber-Based Nanoblends: Preparation, Characterization and Applications. <i>Springer Series on Polymer and Composite Materials</i> , 2017, , 281-349.	0.5	1
70	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.	1.1	1
71	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.	1.0	1
72	Carbon dioxide activation of the plane tree seeds derived bio-char: Kinetic properties and application. <i>Thermal Science</i> , 2020, 24, 3807-3821.	0.5	1

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73	Assessment of synergistic effect on performing the co-pyrolysis process of coal and waste blends based on thermal analysis. <i>Thermal Science</i> , 2022, 26, 2211-2224.	0.5	1
74	The kinetic study of juice industry residues drying process based on TGA-DTG experimental data. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 10109-10129.	2.0	1
75	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, 1437-1449.	0.9	0
76	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.	0.3	0
77	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.	1.4	0
78	Transformation of Matter and Energy in Crops Under the Influence of Brassinosteroids. , 2019, , 251-295.		0
79	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> , 0, , 1.	2.0	0
80	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	0
81	Pyrolysis kinetics of [4-(hydroxymethyl)phenoxy]methyl]polystyrene (Wang) resin using master-plot method and distributed reactivity model. <i>Polymer Bulletin</i> , 0, , 1.	1.7	0