

Zeljko D CupiÄ

List of Publications by Year in descending order

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79
papers

756
citations

566801

15
h-index

642321

23
g-index

82
all docs

82
docs citations

82
times ranked

502
citing authors

#	ARTICLE	IF	CITATIONS
1	Pseudo-steady states in the model of the Bray–Liebhafsky oscillatory reaction. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1997, 93, 2147-2152.	1.7	62
2	Mathematical modeling of the hypothalamic–pituitary–adrenal system activity. <i>Mathematical Biosciences</i> , 2005, 197, 173-187.	0.9	58
3	Predictive modeling of the hypothalamic-pituitary-adrenal (HPA) axis response to acute and chronic stress. <i>Endocrine Journal</i> , 2011, 58, 889-904.	0.7	41
4	Cyclohexane oxidation and cyclohexyl hydroperoxide decomposition by poly(4-vinylpyridine-co-divinylbenzene) supported cobalt and chromium complexes. <i>Chemical Engineering Journal</i> , 2010, 157, 181-188.	6.6	36
5	Improvement of the stoichiometric network analysis for determination of instability conditions of complex nonlinear reaction systems. <i>Chemical Engineering Science</i> , 2010, 65, 3718-3728.	1.9	29
6	Stoichiometric Network Analysis and Associated Dimensionless Kinetic Equations. Application to a Model of the Bray–Liebhafsky Reaction. <i>Journal of Physical Chemistry A</i> , 2008, 112, 13452-13457.	1.1	28
7	Malonic acid concentration as a control parameter in the kinetic analysis of the Belousov–Zhabotinsky reaction under batch conditions. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 6658.	1.3	27
8	Modelling cholesterol effects on the dynamics of the hypothalamic–pituitary–adrenal (HPA) axis. <i>Mathematical Medicine and Biology</i> , 2016, 33, 1-28.	0.8	23
9	The chaotic sequences in the Bray–Liebhafsky reaction in an open reactor. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 5848.	1.3	22
10	Regularity of Intermittent Bursts in <i>Briggs–Rauscher</i> Oscillating Systems with Phenol. <i>Helvetica Chimica Acta</i> , 2014, 97, 321-333.	1.0	19
11	Structures of chaos in open reaction systems. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 20162.	1.3	18
12	The influence of the isomerization reactions on the soybean oil hydrogenation process. <i>Journal of Molecular Catalysis A</i> , 2000, 159, 353-357.	4.8	17
13	Fluctuations in transient response of adsorption-based plasmonic sensors. <i>Sensors and Actuators B: Chemical</i> , 2014, 190, 419-428.	4.0	17
14	Advances in mathematical modelling of the hypothalamic–pituitary–adrenal (HPA) axis dynamics and the neuroendocrine response to stress. <i>Current Opinion in Chemical Engineering</i> , 2018, 21, 84-95.	3.8	16
15	Examinations of Cross-Linked Polyvinylpyridine in Open Reactor. <i>Materials Science Forum</i> , 2005, 494, 369-374.	0.3	15
16	Toluene Degradation in Water Using AlFe-Pillared Clay Catalysts. <i>Chinese Journal of Catalysis</i> , 2009, 30, 14-18.	6.9	15
17	Synthesis, Characterization and Application of Al,Fe-Pillared Clays. <i>Acta Physica Polonica A</i> , 2009, 115, 811-815.	0.2	14
18	Textural and fractal properties of CuO/Al ₂ O ₃ catalyst supports. <i>Chemical Engineering Journal</i> , 2006, 120, 55-61.	6.6	13

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19	Contraction of the model for the Brayâ€Liebhafsky oscillatory reaction by eliminating intermediate I2O. <i>Journal of Chemical Physics</i> , 1999, 110, 3951-3954.	1.2	12
20	The stability of the extended model of hypothalamic-pituitary-adrenal axis examined by stoichiometric network analysis. <i>Russian Journal of Physical Chemistry A</i> , 2011, 85, 2327-2335.	0.1	11
21	Plasmonic sensors in multi-analyte environment: Rate constants and transient analysis. <i>Chemical Engineering Research and Design</i> , 2014, 92, 91-101.	2.7	11
22	Dynamic transitions in a model of the hypothalamic-pituitary-adrenal axis. <i>Chaos</i> , 2016, 26, 033111.	1.0	11
23	Intermittent chaos in the Brayâ€Liebhafsky oscillator. Temperature dependence. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 9770-9778.	1.3	11
24	The sorption and crystallographic characteristics of alumina activated in a reactor for pneumatic transport. <i>Journal of the Serbian Chemical Society</i> , 2006, 71, 1237-1246.	0.4	11
25	Characteristics and catalytic behavior of supported NiMgAg/D catalysts in the partial hydrogenation of soybean oil. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2015, 115, 105-127.	0.8	10
26	Model of the nonlinear reaction system with autocatalysis and autoinhibition: Stability of dynamic states. <i>Hemijaska Industrija</i> , 2012, 66, 637-646.	0.3	10
27	Dynamic behavior of the bray-liebhafsky oscillatory reaction controlled by sulfuric acid and temperature. <i>Russian Journal of Physical Chemistry A</i> , 2011, 85, 2310-2316.	0.1	9
28	The Illustration of Multistability. <i>Journal of Chemical Education</i> , 2000, 77, 1502.	1.1	8
29	Monolayer gas adsorption in plasmonic sensors: Comparative analysis of kinetic models. <i>Russian Journal of Physical Chemistry A</i> , 2013, 87, 2134-2139.	0.1	8
30	Autocatalator as the source of instability in the complex non-linear neuroendocrine model. <i>International Journal of Non-Linear Mechanics</i> , 2015, 73, 25-30.	1.4	8
31	The HPA axis and ethanol: a synthesis of mathematical modelling and experimental observations. <i>Addiction Biology</i> , 2017, 22, 1486-1500.	1.4	8
32	Stoichiometric network analysis of a reaction system with conservation constraints. <i>Chaos</i> , 2018, 28, 083114.	1.0	8
33	Fractal analysis of physical adsorption on surfaces of acid activated bentonites from Serbia. <i>Chemical Industry and Chemical Engineering Quarterly</i> , 2008, 14, 227-229.	0.4	8
34	Inhibition effects in the partial oxidation of cyclohexane on polymer supported Co(II) catalysts. <i>Journal of the Serbian Chemical Society</i> , 2005, 70, 209-221.	0.4	8
35	Activity of polymer supported cobalt catalyst in the Bray-Liebhafsky oscillator. <i>Russian Journal of Physical Chemistry A</i> , 2009, 83, 1468-1472.	0.1	7
36	Mixed-mode oscillations and chaos in return maps of an oscillatory chemical reaction. <i>Russian Journal of Physical Chemistry A</i> , 2015, 89, 2349-2358.	0.1	7

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37	The perspective of using nanocatalysts in the environmental requirements and energy needs of industry. , 2019, , 91-122.		7
38	The Bray-Liebhfafsky reaction. Influence of some polymers based on poly (4-vinylpyridine). Reaction Kinetics and Catalysis Letters, 1995, 54, 43-49.	0.6	6
39	Adsorption-induced fluctuations and noise in plasmonic metamaterial devices. Physica Scripta, 2014, T162, 014047.	1.2	6
40	Complex bifurcations in the oscillatory reaction model. Chaos, Solitons and Fractals, 2016, 87, 84-91.	2.5	6
41	Bifurcation analysis of the reduced model of the Brayâ€Liebhfafsky reaction. Reaction Kinetics, Mechanisms and Catalysis, 2016, 118, 39-55.	0.8	6
42	Temperature influence on the malonic acid decomposition in the Belousov-Zhabotinsky reaction. Russian Journal of Physical Chemistry A, 2009, 83, 1496-1501.	0.1	5
43	Large deviation spectra of chaotic time series from Bray-Liebhfafsky reaction. Russian Journal of Physical Chemistry A, 2009, 83, 1526-1530.	0.1	5
44	Methanol electrooxidation in alkaline solutions on platinum-based electrodes: Classical and dynamical approach. Russian Journal of Physical Chemistry A, 2013, 87, 2127-2133.	0.1	5
45	New Experimental and Mechanistic Investigation on the KSCN-H ₂ O ₂ -NaOH-Cu(II)-Catalyzed Oscillating System (OrbÄn-Epstein Reaction): Inhibitory Effects by Diphenols. International Journal of Chemical Kinetcs, 2015, 47, 82-92.	1.0	5
46	Experimental and mechanistic study of the inhibitory effects by phenolics on the oscillations of the OrbÄn-Epstein Reaction. Reaction Kinetics, Mechanisms and Catalysis, 2018, 123, 125-139.	0.8	5
47	Kinetics of the Bray-Liebhfafsky oscillatory reaction perturbed by polymer supported cobalt catalyst. Science of Sintering, 2011, 43, 55-62.	0.5	5
48	Influence of most important radicals on the numerically simulated belousov-zhabotinsky oscillatory reaction under batch conditions. Russian Journal of Physical Chemistry A, 2011, 85, 2274-2278.	0.1	4
49	Current rates and reaction rates in the Stoichiometric Network Analysis (SNA). Open Chemistry, 2015, 13, .	1.0	4
50	Intermittent Chaos in the Brayâ€Liebhfafsky Oscillator. Dependence of Dynamic States on the Iodate Concentration. Russian Journal of Physical Chemistry A, 2017, 91, 2525-2529.	0.1	4
51	Corticosterone oscillations during mania induction in the lateral hypothalamic kindled ratâ€Experimental observations and mathematical modeling. PLoS ONE, 2017, 12, e0177551.	1.1	4
52	Temperature dependence of catalytic cyclohexane partial oxidation in a polytetrafluoroethylene reactor. Russian Journal of Physical Chemistry A, 2007, 81, 1398-1401.	0.1	3
53	Numerical evidence of complex nonlinear phenomena of the Belousov-Zhabotinsky oscillatory reaction under batch conditions. Russian Journal of Physical Chemistry A, 2013, 87, 2140-2145.	0.1	3
54	Non-isothermal reduction of silica-supported nickel catalyst precursors in hydrogen atmosphere: a kinetic study and statistical interpretation. Journal of the Iranian Chemical Society, 2014, 11, 1743-1758.	1.2	3

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55	Dynamics and kinetics of complex reaction systems. Contributions of the Professor emeritus Ljiljana Kolar-Anić. Reaction Kinetics, Mechanisms and Catalysis, 2018, 123, 1-15.	0.8	3
56	Contraction of the Complex Models by the Stoichiometric Network Analysis. , 1999, , 75-79.		3
57	Non-isothermal kinetic characterisation of a gas-solid reaction by TG analysis. Journal of the Serbian Chemical Society, 2005, 70, 1301-1311.	0.4	3
58	Kinetic analytical method for determination of uric acid in human urine using analyte pulse perturbation technique. Journal of the Brazilian Chemical Society, 2012, , .	0.6	2
59	Perturbations of the <i>Dushman</i> Reaction with Piroxicam: Experimental and Model Calculations. Helvetica Chimica Acta, 2014, 97, 47-55.	1.0	2
60	Return map analysis of the highly nonlinear Bray“Liebhafsky reaction model. Reaction Kinetics, Mechanisms and Catalysis, 2016, 118, 27-38.	0.8	2
61	Modelling of the Hypothalamic-Pituitary-Adrenal Axis Perturbations by Externally Induced Cholesterol Pulses of Finite Duration and with Asymmetrically Distributed Concentration Profile. Russian Journal of Physical Chemistry A, 2017, 91, 2600-2607.	0.1	2
62	Bifurcation analysis: a tool for determining model parameters of the considered process. Reaction Kinetics, Mechanisms and Catalysis, 2018, 123, 31-45.	0.8	2
63	Alternating catalytic reactions. Reaction Kinetics, Mechanisms and Catalysis, 2019, 126, 577-586.	0.8	2
64	Bray“Liebhafsky oscillatory reaction as the matrix system for the kinetic determination of microquantities of alizarin and purpurin. Reaction Kinetics, Mechanisms and Catalysis, 2020, 130, 655-668.	0.8	2
65	Editorial: Advances in Oscillating Reactions. Frontiers in Chemistry, 2021, 9, 690699.	1.8	2
66	Oscillators: Phenomenological mappings and analogies: First part: Mathematical analogy and chains. Scientific Technical Review, 2015, 65, 27-38.	0.3	2
67	Analysis of transients in adsorption-desorption at the surface of plasmonic sensors: Nonlinear versus linear approach. , 2012, , .		1
68	Kinetic Analysis of Nonisothermal Reduction of Silica-Supported Nickel Catalyst Precursors in a Hydrogen Atmosphere. Chemical Engineering Communications, 2016, 203, 182-199.	1.5	1
69	Intermittent Chaos in the CSTR Bray“Liebhafsky Oscillator-Specific Flow Rate Dependence. Frontiers in Chemistry, 2020, 8, 560274.	1.8	1
70	Oscillators: Phenomenological mappings and analogies: Second part: Structural analogy and chains. Scientific Technical Review, 2015, 65, 37-45.	0.3	1
71	Investigating chemical parameters in hot dog sausages from Novi Sad market. Veterinarski Glasnik, 2011, 65, 385-397.	0.1	1
72	Microelements and heavy metals in raw cow milk from various regions in Serbia. Veterinarski Glasnik, 2013, 67, 317-328.	0.1	1

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73	Experimentally observable transitions between dynamical states in complex reaction systems. Computers and Chemical Engineering, 2008, 32, 1293-1304.	2.0	0
74	The poissonian nature of adsorption-desorption processes. , 2012, , .		0
75	In situ videometry monitoring of bubble behavior during the electrocatalytic oxygen evolution reaction. Reaction Kinetics, Mechanisms and Catalysis, 2015, 115, 81-91.	0.8	0
76	Optimal feeding and maintenance technology for dairy cows in intensive production conditions. Veterinarski Glasnik, 2003, 57, 125-136.	0.1	0
77	Cyclic voltammetric study of the influence of porosity on electrochemical response of nickel-alumina modified glassy carbon electrode. Science of Sintering, 2018, 50, 313-321.	0.5	0
78	Oscillatory carbonylation of poly(ethylene glycol)methyl ether acetylene. Improved model of reaction mechanism. Reaction Kinetics, Mechanisms and Catalysis, 2022, 135, 3-14.	0.8	0
79	Brayâ€Liebhafsky oscillatory reaction in a continuous-flow stirred tank reactor as the matrix system for determination of tyrosine. Reaction Kinetics, Mechanisms and Catalysis, 0, , 1.	0.8	0