

# Zeljko D CupiÄ

## List of Publications by Year in descending order

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82  
docs citations

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times ranked

502  
citing authors

#	ARTICLE	IF	CITATIONS
1	Oscillatory carbonylation of poly(ethylene glycol)methyl ether acetylene. Improved model of reaction mechanism. Reaction Kinetics, Mechanisms and Catalysis, 2022, 135, 3-14.	1.7	0
2	Editorial: Advances in Oscillating Reactions. Frontiers in Chemistry, 2021, 9, 690699.	3.6	2
3	Intermittent Chaos in the CSTR Bray-Liebhafsky Oscillator-Specific Flow Rate Dependence. Frontiers in Chemistry, 2020, 8, 560274.	3.6	1
4	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.	1.7	2
5	The perspective of using nanocatalysts in the environmental requirements and energy needs of industry. , 2019, , 91-122.		7
6	Alternating catalytic reactions. Reaction Kinetics, Mechanisms and Catalysis, 2019, 126, 577-586.	1.7	2
7	Dynamics and kinetics of complex reaction systems. Contributions of the Professor emeritus Ljiljana Kolar-Ani. Reaction Kinetics, Mechanisms and Catalysis, 2018, 123, 1-15.	1.7	3
8	Advances in mathematical modelling of the hypothalamic-pituitary-adrenal (HPA) axis dynamics and the neuroendocrine response to stress. Current Opinion in Chemical Engineering, 2018, 21, 84-95.	7.8	16
9	Bifurcation analysis: a tool for determining model parameters of the considered process. Reaction Kinetics, Mechanisms and Catalysis, 2018, 123, 31-45.	1.7	2
10	Experimental and mechanistic study of the inhibitory effects by phenolics on the oscillations of the Orb- Epstein Reaction. Reaction Kinetics, Mechanisms and Catalysis, 2018, 123, 125-139.	1.7	5
11	Stoichiometric network analysis of a reaction system with conservation constraints. Chaos, 2018, 28, 083114.	2.5	8
12	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.	1.4	0
13	The HPA axis and ethanol: a synthesis of mathematical modelling and experimental observations. Addiction Biology, 2017, 22, 1486-1500.	2.6	8
14	Intermittent Chaos in the Bray-Liebhafsky Oscillator. Dependence of Dynamic States on the Iodate Concentration. Russian Journal of Physical Chemistry A, 2017, 91, 2525-2529.	0.6	4
15	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.	0.6	2
16	Corticosterone oscillations during mania induction in the lateral hypothalamic kindled rat- Experimental observations and mathematical modeling. PLoS ONE, 2017, 12, e0177551.	2.5	4
17	Dynamic transitions in a model of the hypothalamic-pituitary-adrenal axis. Chaos, 2016, 26, 033111.	2.5	11
18	Complex bifurcations in the oscillatory reaction model. Chaos, Solitons and Fractals, 2016, 87, 84-91.	5.1	6

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19	Modelling cholesterol effects on the dynamics of the hypothalamicâ€“pituitaryâ€“adrenal (HPA) axis. <i>Mathematical Medicine and Biology</i> , 2016, 33, 1-28.	1.2	23
20	Return map analysis of the highly nonlinear Brayâ€“Liebhafsky reaction model. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2016, 118, 27-38.	1.7	2
21	Bifurcation analysis of the reduced model of the Brayâ€“Liebhafsky reaction. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2016, 118, 39-55.	1.7	6
22	Intermittent chaos in the Brayâ€“Liebhafsky oscillator. Temperature dependence. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 9770-9778.	2.8	11
23	Kinetic Analysis of Nonisothermal Reduction of Silica-Supported Nickel Catalyst Precursors in a Hydrogen Atmosphere. <i>Chemical Engineering Communications</i> , 2016, 203, 182-199.	2.6	1
24	Current rates and reaction rates in the Stoichiometric Network Analysis (SNA). <i>Open Chemistry</i> , 2015, 13, .	1.9	4
25	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.	0.6	7
26	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.	1.7	10
27	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.	2.6	8
28	In situ videometry monitoring of bubble behavior during the electrocatalytic oxygen evolution reaction. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2015, 115, 81-91.	1.7	0
29	New Experimental and Mechanistic Investigation on the KSCN-H <sub>2</sub> O <sub>2</sub> -NaOH-Cu(II)-Catalyzed Oscillating System (OrbÄn-Epstein Reaction): Inhibitory Effects by Diphenols. <i>International Journal of Chemical Kinetics</i> , 2015, 47, 82-92.	1.6	5
30	Oscillators: Phenomenological mappings and analogies: First part: Mathematical analogy and chains. <i>Scientific Technical Review</i> , 2015, 65, 27-38.	0.3	2
31	Oscillators: Phenomenological mappings and analogies: Second part: Structural analogy and chains. <i>Scientific Technical Review</i> , 2015, 65, 37-45.	0.3	1
32	Adsorption-induced fluctuations and noise in plasmonic metamaterial devices. <i>Physica Scripta</i> , 2014, T162, 014047.	2.5	6
33	Plasmonic sensors in multi-analyte environment: Rate constants and transient analysis. <i>Chemical Engineering Research and Design</i> , 2014, 92, 91-101.	5.6	11
34	Regularity of Intermittent Bursts in <i>Briggsâ€“Rauscher</i> Oscillating Systems with Phenol. <i>Helvetica Chimica Acta</i> , 2014, 97, 321-333.	1.6	19
35	Fluctuations in transient response of adsorption-based plasmonic sensors. <i>Sensors and Actuators B: Chemical</i> , 2014, 190, 419-428.	7.8	17
36	Perturbations of the <i>Dushman</i> Reaction with Piroxicam: Experimental and Model Calculations. <i>Helvetica Chimica Acta</i> , 2014, 97, 47-55.	1.6	2

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37	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.	2.2	3
38	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.	0.6	3
39	Monolayer gas adsorption in plasmonic sensors: Comparative analysis of kinetic models. Russian Journal of Physical Chemistry A, 2013, 87, 2134-2139.	0.6	8
40	Methanol electrooxidation in alkaline solutions on platinum-based electrodes: Classical and dynamical approach. Russian Journal of Physical Chemistry A, 2013, 87, 2127-2133.	0.6	5
41	Microelements and heavy metals in raw cow milk from various regions in Serbia. Veterinarski Glasnik, 2013, 67, 317-328.	0.3	1
42	The poissonian nature of adsorption-desorption processes. , 2012, , .		0
43	Analysis of transients in adsorption-desorption at the surface of plasmonic sensors: Nonlinear versus linear approach. , 2012, , .		1
44	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
45	Model of the nonlinear reaction system with autocatalysis and autoinhibition: Stability of dynamic states. Hemijska Industrija, 2012, 66, 637-646.	0.7	10
46	Structures of chaos in open reaction systems. Physical Chemistry Chemical Physics, 2011, 13, 20162.	2.8	18
47	Predictive modeling of the hypothalamic-pituitary-adrenal (HPA) axis response to acute and chronic stress. Endocrine Journal, 2011, 58, 889-904.	1.6	41
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.	0.6	4
49	The stability of the extended model of hypothalamic-pituitary-adrenal axis examined by stoichiometric network analysis. Russian Journal of Physical Chemistry A, 2011, 85, 2327-2335.	0.6	11
50	Dynamic behavior of the bray-liebhafsky oscillatory reaction controlled by sulfuric acid and temperature. Russian Journal of Physical Chemistry A, 2011, 85, 2310-2316.	0.6	9
51	Kinetics of the Bray-Liebhafsky oscillatory reaction perturbed by polymer supported cobalt catalyst. Science of Sintering, 2011, 43, 55-62.	1.4	5
52	Investigating chemical parameters in hot dog sausages from Novi Sad market. Veterinarski Glasnik, 2011, 65, 385-397.	0.3	1
53	Cyclohexane oxidation and cyclohexyl hydroperoxide decomposition by poly(4-vinylpyridine-co-divinylbenzene) supported cobalt and chromium complexes. Chemical Engineering Journal, 2010, 157, 181-188.	12.7	36
54	Improvement of the stoichiometric network analysis for determination of instability conditions of complex nonlinear reaction systems. Chemical Engineering Science, 2010, 65, 3718-3728.	3.8	29

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55	Toluene Degradation in Water Using AlFe-Pillared Clay Catalysts. Chinese Journal of Catalysis, 2009, 30, 14-18.	14.0	15
56	Activity of polymer supported cobalt catalyst in the Bray-Liebhaufsky oscillator. Russian Journal of Physical Chemistry A, 2009, 83, 1468-1472.	0.6	7
57	Temperature influence on the malonic acid decomposition in the Belousov-Zhabotinsky reaction. Russian Journal of Physical Chemistry A, 2009, 83, 1496-1501.	0.6	5
58	Large deviation spectra of chaotic time series from Bray-Liebhaufsky reaction. Russian Journal of Physical Chemistry A, 2009, 83, 1526-1530.	0.6	5
59	Synthesis, Characterization and Application of Al,Fe-Pillared Clays. Acta Physica Polonica A, 2009, 115, 811-815.	0.5	14
60	Experimentally observable transitions between dynamical states in complex reaction systems. Computers and Chemical Engineering, 2008, 32, 1293-1304.	3.8	0
61	Malonic acid concentration as a control parameter in the kinetic analysis of the Belousov-Zhabotinsky reaction under batch conditions. Physical Chemistry Chemical Physics, 2008, 10, 6658.	2.8	27
62	The chaotic sequences in the Bray-Liebhaufsky reaction in an open reactor. Physical Chemistry Chemical Physics, 2008, 10, 5848.	2.8	22
63	Stoichiometric Network Analysis and Associated Dimensionless Kinetic Equations. Application to a Model of the Bray-Liebhaufsky Reaction. Journal of Physical Chemistry A, 2008, 112, 13452-13457.	2.5	28
64	Fractal analysis of physical adsorption on surfaces of acid activated bentonites from Serbia. Chemical Industry and Chemical Engineering Quarterly, 2008, 14, 227-229.	0.7	8
65	Temperature dependence of catalytic cyclohexane partial oxidation in a polytetrafluoroethylene reactor. Russian Journal of Physical Chemistry A, 2007, 81, 1398-1401.	0.6	3
66	Textural and fractal properties of CuO/Al <sub>2</sub> O <sub>3</sub> catalyst supports. Chemical Engineering Journal, 2006, 120, 55-61.	12.7	13
67	The sorption and crystallographic characteristics of alumina activated in a reactor for pneumatic transport. Journal of the Serbian Chemical Society, 2006, 71, 1237-1246.	0.8	11
68	Examinations of Cross-Linked Polyvinylpyridine in Open Reactor. Materials Science Forum, 2005, 494, 369-374.	0.3	15
69	Mathematical modeling of the hypothalamic-pituitary-adrenal system activity. Mathematical Biosciences, 2005, 197, 173-187.	1.9	58
70	Inhibition effects in the partial oxidation of cyclohexane on polymer supported Co(II) catalysts. Journal of the Serbian Chemical Society, 2005, 70, 209-221.	0.8	8
71	Non-isothermal kinetic characterisation of a gas-solid reaction by TG analysis. Journal of the Serbian Chemical Society, 2005, 70, 1301-1311.	0.8	3
72	Optimal feeding and maintenance technology for dairy cows in intensive production conditions. Veterinarski Glasnik, 2003, 57, 125-136.	0.3	0

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73	The influence of the isomerization reactions on the soybean oil hydrogenation process. Journal of Molecular Catalysis A, 2000, 159, 353-357.	4.8	17
74	The Illustration of Multistability. Journal of Chemical Education, 2000, 77, 1502.	2.3	8
75	Contraction of the model for the Bray-Liebhafsky oscillatory reaction by eliminating intermediate I2O. Journal of Chemical Physics, 1999, 110, 3951-3954.	3.0	12
76	Contraction of the Complex Models by the Stoichiometric Network Analysis. , 1999, , 75-79.		3
77	Pseudo-steady states in the model of the Bray-Liebhafsky oscillatory reaction. Journal of the Chemical Society, Faraday Transactions, 1997, 93, 2147-2152.	1.7	62
78	The Bray-Liebhafsky reaction. Influence of some polymers based on poly (4-vinylpyridine). Reaction Kinetics and Catalysis Letters, 1995, 54, 43-49.	0.6	6
79	Bray-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.	1.7	0