

Istvan Lengyel

List of Publications by Year in descending order

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20
papers

1,294
citations

643344

15
h-index

889612

19
g-index

20
all docs

20
docs citations

20
times ranked

756
citing authors

#	ARTICLE	IF	CITATIONS
1	Catalyst ignition and extinction: A microkinetics-based bifurcation study of adiabatic reactors for oxidative coupling of methane. <i>Chemical Engineering Science</i> , 2019, 199, 635-651.	1.9	23
2	Numerical bifurcation analysis of large-scale detailed kinetics mechanisms. <i>Current Opinion in Chemical Engineering</i> , 2018, 21, 41-47.	3.8	10
3	A chemical mechanism for in situ boron doping during silicon chemical vapor deposition. <i>Thin Solid Films</i> , 2000, 365, 231-241.	0.8	29
4	Taube's Influence on the Design of Oscillating Reactions. <i>Advances in Chemistry Series</i> , 1997, , 285-295.	0.6	2
5	Computational chemistry predictions of reaction processes in organometallic vapor phase epitaxy. <i>Progress in Crystal Growth and Characterization of Materials</i> , 1997, 35, 117-149.	1.8	45
6	Rate Constants for Reactions between Iodine- and Chlorine-Containing Species: A Detailed Mechanism of the Chlorine Dioxide/Chlorite-Iodide Reaction. <i>Journal of the American Chemical Society</i> , 1996, 118, 3708-3719.	6.6	107
7	Turing structures. Progress toward a room temperature, closed system. <i>Physica D: Nonlinear Phenomena</i> , 1995, 84, 1-11.	1.3	23
8	The Chemistry behind the First Experimental Chemical Examples of Turing Patterns. , 1995, , 297-322.		5
9	Kinetics of iodine hydrolysis. <i>Inorganic Chemistry</i> , 1993, 32, 5880-5882.	1.9	107
10	Systematic design of chemical oscillators. 82. Dynamical study of the chlorine dioxide-iodide open system oscillator. <i>The Journal of Physical Chemistry</i> , 1992, 96, 7032-7037.	2.9	20
11	Quasi-two-dimensional Turing patterns in an imposed gradient. <i>Physical Review Letters</i> , 1992, 69, 2729-2732.	2.9	60
12	New systems for pattern formation studies. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1992, 188, 26-33.	1.2	34
13	Systematic design of chemical oscillators. 72. A transition-metal oscillator: oscillatory oxidation of manganese(II) by periodate in a CSTR. <i>Journal of the American Chemical Society</i> , 1991, 113, 1978-1982.	6.6	24
14	Modeling of Turing Structures in the Chlorite-Iodide-Malonic Acid-Starch Reaction System. <i>Science</i> , 1991, 251, 650-652.	6.0	464
15	Diffusion-induced instability in chemically reacting systems: Steady-state multiplicity, oscillation, and chaos. <i>Chaos</i> , 1991, 1, 69-76.	1.0	46
16	Exotic phenomena in nitric acid oxidations. <i>Reaction Kinetics and Catalysis Letters</i> , 1990, 42, 355-360.	0.6	3
17	Systematic design of chemical oscillators. Part 65. Batch oscillation in the reaction of chlorine dioxide with iodine and malonic acid. <i>Journal of the American Chemical Society</i> , 1990, 112, 4606-4607.	6.6	104
18	Experimental and modeling study of oscillations in the chlorine dioxide-iodine-malonic acid reaction. <i>Journal of the American Chemical Society</i> , 1990, 112, 9104-9110.	6.6	146

#	ARTICLE	IF	CITATIONS
19	Kinetics and mechanism of autocatalytic oxidation of formaldehyde by nitric acid. International Journal of Chemical Kinetics, 1988, 20, 687-697.	1.0	31
20	Kinetics and mechanism of autocatalytic oxidation of Fe(phen) ₂₊₃ and Fe(bpy) ₂₊₃ by nitric acid. Journal of the Chemical Society Faraday Transactions I, 1988, 84, 229.	1.0	11