Istvan Lengyel

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/11096886/publications.pdf Version: 2024-02-01



ISTVAN LENCYEL

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Catalyst ignition and extinction: A microkinetics-based bifurcation study of adiabatic reactors for oxidative coupling of methane. Chemical Engineering Science, 2019, 199, 635-651. | 3.8 | 23 |
| 2 | Numerical bifurcation analysis of large-scale detailed kinetics mechanisms. Current Opinion in Chemical Engineering, 2018, 21, 41-47. | 7.8 | 10 |
| 3 | A chemical mechanism for in situ boron doping during silicon chemical vapor deposition. Thin Solid Films, 2000, 365, 231-241. | 1.8 | 29 |
| 4 | Taube's Influence on the Design of Oscillating Reactions. Advances in Chemistry Series, 1997, , 285-295. | 0.6 | 2 |
| 5 | Computational chemistry predictions of reaction processes in organometallic vapor phase epitaxy. Progress in Crystal Growth and Characterization of Materials, 1997, 35, 117-149. | 4.0 | 45 |
| 6 | Rate Constants for Reactions between Iodine- and Chlorine-Containing Species:Â A Detailed Mechanism of the Chlorine Dioxide/Chlorite-Iodide Reactionâ€. Journal of the American Chemical Society, 1996, 118, 3708-3719. | 13.7 | 107 |
| 7 | Turing structures. Progress toward a room temperature, closed system. Physica D: Nonlinear Phenomena, 1995, 84, 1-11. | 2.8 | 23 |
| 8 | The Chemistry behind the First Experimental Chemical Examples of Turing Patterns. , 1995, , 297-322. | | 5 |
| 9 | Kinetics of iodine hydrolysis. Inorganic Chemistry, 1993, 32, 5880-5882. | 4.0 | 107 |
| 10 | Systematic design of chemical oscillators. 82. Dynamical study of the chlorine dioxide-iodide open system oscillator. The Journal of Physical Chemistry, 1992, 96, 7032-7037. | 2.9 | 20 |
| 11 | Quasi-two-dimensional Turing patterns in an imposed gradient. Physical Review Letters, 1992, 69, 2729-2732. | 7.8 | 60 |
| 12 | New systems for pattern formation studies. Physica A: Statistical Mechanics and Its Applications, 1992, 188, 26-33. | 2.6 | 34 |
| 13 | Systematic design of chemical oscillators. 72. A transition-metal oscillator: oscillatory oxidation of manganese(II) by periodate in a CSTR. Journal of the American Chemical Society, 1991, 113, 1978-1982. | 13.7 | 24 |
| 14 | Modeling of Turing Structures in the ChloriteIodideMalonic AcidStarch Reaction System. Science, 1991, 251, 650-652. | 12.6 | 464 |
| 15 | Diffusionâ€induced instability in chemically reacting systems: Steadyâ€state multiplicity, oscillation, and chaos. Chaos, 1991, 1, 69-76. | 2.5 | 46 |
| 16 | Exotic phenomena in nitric acid oxidations. Reaction Kinetics and Catalysis Letters, 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. Journal of the American Chemical Society, 1990, 112, 4606-4607. | 13.7 | 104 |
| 18 | Experimental and modeling study of oscillations in the chlorine dioxide-iodine-malonic acid reaction. Journal of the American Chemical Society, 1990, 112, 9104-9110. | 13.7 | 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. | 1.6 | 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 |