Vilmos GÃ¡spÃ¡r

List of Publications by Year
in descending order

24 papers	958 citations	687363 13 h-index	642732 23 g-index
25 all docs	25 docs citations	25 times ranked	598 citing authors

#	Article	IF	Citations
1	Controlling chaos in the Belousovâ€”Zhabotinsky reaction. Nature, 1993, 361, 240-243.	27.8	383
2	Signal transmission in chemical systems: propagation of chemical waves through capillary tubes. The Journal of Physical Chemistry, 1994, 98, 522-531.	2.9	120
3	Cross-membrane coupling of chemical spatiotemporal patterns. Nature, 1991, 351, 132-135.	27.8	94
4	Experiments on Synchronization and Control of Chaos on Coupled Electrochemical Oscillators. Journal of Physical Chemistry B, 2000, 104, 7554-7560.	2.6	43
5	Wave initiation in the ferroin-catalysed Belousovâ€“Zhabotinsky reaction with visible light. Physical Chemistry Chemical Physics, 2000, 2, 413-416.	2.8	33
6	Kinetics of the photoaquation of Hexacyanoferrate(II) ion. Polyhedron, 1983, 2, 387-391.	2.2	32
7	Tracking unstable steady states and periodic orbits of oscillatory and chaotic electrochemical systems using delayed feedback control. Chaos, 2006, 16, 033109.	2.5	31
8	Stability Analysis of the Oscillatory Electrodissolution of Copper with Impedance Spectroscopy. Journal of Physical Chemistry A, 1998, 102, 909-914.	2.5	28
9	Measurements of kinematical parameters of spiral waves in media of low excitability. Physical Chemistry Chemical Physics, 2001, 3, 4747-4752.	2.8	23
10	Period lengthening and associated bifurcations in a twoâ€variable, flow Oregonator. Journal of Chemical Physics, 1988, 88, 778-791.	3.0	20
11	Scaling relationship for oscillating electrochemical systems: dependence of phase diagram on electrode size and rotation rate. Physical Chemistry Chemical Physics, 2009, 11, 7669.	2.8	20
12	Transverse coupling of chemical waves. Chaos, 1991, 1, 435-444.	2.5	17
13	Controlling Chaos with Artificial Neural Network:Â Numerical Studies and Experiments. Journal of Physical Chemistry A, 2000, 104, 8033-8037.	2.5	15
14	Experimental Strategy for Characterization of Essential Dynamical Variables in Oscillatory Systems:Â Effect of Double-Layer Capacitance on the Stability of Electrochemical Oscillators. Journal of Physical Chemistry A, 2005, 109, 9521-9527.	2.5	14
15	Modelling wave propagation across a series of gaps. Physical Chemistry Chemical Physics, 2004, 6, 4677-4681.	2.8	11
16	Kinetics of the reversible photoaquation of the octacyanomolybdate(IV) ion. Polyhedron, 1987, 6, 269-273.	2.2	10
17	Quantitative dynamical relationships for the effect of rotation rate on frequency and waveform of electrochemical oscillations. Chemical Engineering Science, 2012, 83, 56-65.	3.8	10
18	Delayed feedback induced multirhythmicity in the oscillatory electrodissolution of copper. Chaos, 2015, 25, 064608.	2.5	9

#	Article	IF	Citations
19	Synchronization of electrochemical oscillators of S-NDR type. Electrochimica Acta, 2009, 55, 383-394.	5.2	8
20	A New Chemical Oscillator in a Novel Open Reactor: The ClO2-I2-Acetone System in a Membrane Fed Stirred Tank Reactor. The Journal of Physical Chemistry, 1995, 99, 5359-5364.	2.9	6
21	Transition between circular fronts and spiral waves in marginally excitable media. Journal of the Chemical Society, Faraday Transactions, 1996, 92, 2897-2901.	1.7	6
22	Abrupt and gradual onset of synchronized oscillations due to dynamical quorum sensing in the single-cathode multi-anode nickel electrodissolution system. Chaos, 2019, 29, 033114.	2.5	6
23	Platinum as a Chlorine Dioxide/Chlorite Redox Electrode in ClO2-Based Oscillating Reactions and a New Semibatch Oscillator:Â The ClO2â¯Acetone System with I-Inflow. Journal of Physical Chemistry B, 1997, 101, 3720-3726.	2.6	5
24	Comment on â€œSimple KBrO3, H2SO4 Batch Oscillatorâ€• Journal of Physical Chemistry A, 2009, 113, 7979-7980.	2.5	0