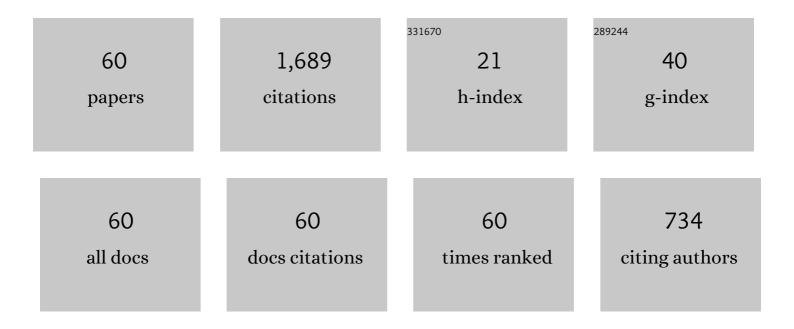
Michael Menzinger

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Chemical instability induced by a differential flow. Physical Review Letters, 1992, 69, 1193-1196.	7.8	200
2	Self-organization induced by the differential flow of activator and inhibitor. Physical Review Letters, 1993, 70, 778-781.	7.8	156
3	High Intensity, Low Energy Spread Ion Source for Chemical Accelerators. Review of Scientific Instruments, 1969, 40, 102-105.	1.3	144
4	Turing instabilities in general systems. Journal of Mathematical Biology, 2000, 41, 493-512.	1.9	122
5	Interaction of Turing and Hopf bifurcations in chemical systems. Physical Review A, 1992, 46, 6315-6322.	2.5	82
6	Flow-distributed oscillations: Stationary chemical waves in a reacting flow. Physical Review E, 1999, 60, R3471-R3474.	2.1	72
7	Non-Turing stationary patterns in flow-distributed oscillators with general diffusion and flow rates. Physical Review E, 2000, 62, 113-119.	2.1	55
8	Segmentation and Somitogenesis Derived from Phase Dynamics in Growing Oscillatory Media. Journal of Theoretical Biology, 2000, 207, 473-493.	1.7	54
9	Parameter space analysis, pattern sensitivity and model comparison for Turing and stationary flow-distributed waves (FDS). Physica D: Nonlinear Phenomena, 2001, 160, 79-102.	2.8	54
10	Molecular beam chemiluminescence. VII. Enhancement of Ba+N2O→BaO*+N2O cross section through N2O bending vibration: Evidence for electron transfer. Journal of Chemical Physics, 1975, 63, 4557-4559.	3.0	45
11	Chemical waves in open flows of active media: Their relevance to axial segmentation in biology. Faraday Discussions, 2002, 120, 295-312.	3.2	44
12	Mercury Drop "Attacks―an Oxidant Crystal. Journal of Physical Chemistry B, 2000, 104, 3589-3593.	2.6	40
13	Electronic Chemiluminescence in Gases. Advances in Chemical Physics, 2007, , 1-61.	0.3	38
14	Beam Studies of the Energy Dependence of Hotâ€Hydrogenâ€Atom Reactions with Cyclohexane. Journal of Chemical Physics, 1969, 50, 2991-3004.	3.0	37
15	Steady-State Multiplicity and Superadiabatic Extinction Waves in the Oxidation of CO/H2 Mixtures over a Pt/Al2O3-Coated Monolith. Industrial & Engineering Chemistry Research, 2003, 42, 37-45.	3.7	32
16	Slow passage through a supercritical Hopf bifurcation: Timeâ€delayed response in the Belousov–Zhabotinsky reaction in a batch reactor. Journal of Chemical Physics, 1996, 105, 10905-10910.	3.0	31
17	Control of chemical pattern formation by a clock-and-wavefront type mechanism. Biophysical Chemistry, 2004, 110, 231-238.	2.8	26
18	Molecular beam chemiluminescence. V. Reactivities of NO (2Î1/2) and (2Î3/2) fine structure components in the NO + O3 → NO*2 + O2 reaction. Journal of Chemical Physics, 1975, 62, 1987-1988.	3.0	25

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19	Controlled pattern formation in the CDIMA reaction with a moving boundary of illumination. Physical Chemistry Chemical Physics, 2002, 4, 1315-1319.	2.8	25
20	Nonlinear Dynamics of the BZ Reaction: A Simple Experiment that Illustrates Limit Cycles, Chaos, Bifurcations, and Noise. Journal of Chemical Education, 1996, 73, 868.	2.3	24
21	Stirring Effects and Phase-Dependent Inhomogeneity in Chemical Oscillations:Â The Belousovâ^'Zhabotinsky Reaction in a CSTR. Journal of Physical Chemistry A, 1997, 101, 2304-2309.	2.5	24
22	Differential flow instability in dynamical systems without an unstable (activator) subsystem. Physical Review Letters, 1994, 72, 2017-2020.	7.8	23
23	Electronic energy partitioning in reactions occurring on more than one potential energy surface: Metastable Mg(3P) atoms with halogen molecules. Journal of Chemical Physics, 1983, 78, 5612-5620.	3.0	21
24	Experiments on Flow-Distributed Oscillations in the Belousovâ^'Zhabotinsky Reaction. Journal of Physical Chemistry A, 2002, 106, 4897-4903.	2.5	21
25	An ab initio study of the reaction Be(3P) +H2(1Σg+) → BeH(2Σ+)+H(2S). Journal of Chemical Physics, 2 4592-4596.	1983, 78, 3.0	19
26	Pulsating wave propagation in reactive flows: Flow-distributed oscillations. Physical Review E, 2000, 61, 3334-3338.	2.1	19
27	Temperature excursions in packed bed reactors with an axial variation of catalyst activity. Catalysis Today, 2001, 69, 137-146.	4.4	19
28	On the dynamical content of excitation functions: Simple linearization procedures. Chemical Physics, 1977, 22, 273-280.	1.9	18
29	Hysteresis and Extinction Waves in Catalytic CO Oxidation Caused by Reactant Concentration Perturbations in a Packed-Bed Reactor. Industrial & Engineering Chemistry Research, 2003, 42, 1662-1673.	3.7	18
30	General theory of nonlinear flow-distributed oscillations. Physical Review E, 2003, 68, 066122.	2.1	15
31	Reply to "Comment on â€~Flow-distributed oscillations: Stationary chemical waves in a reacting flow' â Physical Review E, 2000, 62, 2994-2995.	€ <u>.</u> 2.1	14
32	Beam studies of the energy dependence of the reactions of tritium atoms with nâ€hexane, cyclopentane, nâ€butane, and 1â€chlorobutane. Journal of Chemical Physics, 1973, 58, 1741-1752.	3.0	13
33	Propagation of Excitation Pulses and Autocatalytic Fronts in Packed-Bed Reactors. Journal of Physical Chemistry B, 2002, 106, 3751-3758.	2.6	13
34	Pattern formation by boundary forcing in convectively unstable, oscillatory media with and without differential transport. Physical Review E, 2005, 72, 026210.	2.1	13
35	Differential Flow Instability in Tubular Flow Reactor:  Its Convective Nature. The Journal of Physical Chemistry, 1996, 100, 15810-15814.	2.9	12
36	A general mechanism for "inexact―phase differences inÂreaction–diffusion–advection systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 304, 149-156.	2.1	12

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#	Article	IF	CITATIONS
37	Estimating spectral properties of the thermal instability in packed-bed reactors. Chemical Engineering Science, 2008, 63, 1480-1489.	3.8	10
38	The Differential Flow Instabilities. , 1995, , 365-397.		10
39	Temperature response to reactant concentration perturbations in a packedâ€bed reactor. Canadian Journal of Chemical Engineering, 2001, 79, 823-827.	1.7	8
40	Energy dependence of the reactions of atomic tritium with 1 hlorobutane. Journal of Chemical Physics, 1974, 60, 2568-2569.	3.0	7
41	Control of activator-inhibitor systems by differential transport. Physics Letters, Section A: General, Atomic and Solid State Physics, 1996, 216, 262-268.	2.1	6
42	Stirring Effect on Bistability in a CSTR. 1. Experiments and Simulations for the AsO33-/IO3-Reaction. Journal of Physical Chemistry A, 1999, 103, 10859-10865.	2.5	6
43	Stabilization of stationary excitation pulses in an open flow without long-range inhibition. Physical Review E, 2002, 65, 046202.	2.1	6
44	Flow-distributed oscillation, flow-velocity modulation, and resonance. Physical Review E, 2005, 72, 027202.	2.1	6
45	Recoil-tritium reactions in the solid phase: absolute yields and phase effects. The Journal of Physical Chemistry, 1968, 72, 1789-1792.	2.9	5
46	Stirring Effect on Bistability in a CSTR. 2. Theoretical Analysis of the Coalescenceâ^'Redispersion Model for One-Variable Systems. Journal of Physical Chemistry A, 1999, 103, 10866-10873.	2.5	5
47	Harmonic resonant excitation of flow-distributed oscillation waves and Turing patterns driven at a growing boundary. Physical Review E, 2009, 80, 026209.	2.1	5
48	Selection of flow-distributed oscillation and Turing patterns by boundary forcing in a linearly growing, oscillating medium. Physical Review E, 2009, 80, 026208.	2.1	5
49	The Vibrational Spectrum of Tetramethyldioxetane. Spectroscopy Letters, 1983, 16, 945-951.	1.0	4
50	Dynamics of analogâ€ŧoâ€frequency transduction by excitable systems: Sensory receptors. Journal of Chemical Physics, 1993, 98, 9155-9166.	3.0	4
51	Amplification of Periodic Temperature Disturbances in a Packedâ€Bed Reactor: CO Oxidation over a CuO/Al ₂ O ₃ Catalyst. Canadian Journal of Chemical Engineering, 2003, 81, 1215-1221.	1.7	4
52	Numerical Investigation of Resonance Behaviour of a Tubular Packedâ€Bed Reactor with Nonâ€Uniform Activity. Canadian Journal of Chemical Engineering, 2004, 82, 387-391.	1.7	4
53	Common dynamics of the differential-flow-induced chemical instability and the multimode instability in a laser with a saturable absorber. Physical Review A, 1993, 48, 1683-1686.	2.5	3
54	Differential flow instability in the Ginzburg-Landau and Swift-Hohenberg approximations. Physica D: Nonlinear Phenomena, 1996, 95, 306-318.	2.8	3

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55	The parameter domain of convective instability of the adiabatic packedâ€bed reactor. Canadian Journal of Chemical Engineering, 2015, 93, 1975-1989.	1.7	3
56	Reply to Comments on "Stirring Effects and Phase-Dependent Inhomogeneity in Chemical Oscillations: The Belousovâ^'Zhabotinsky Reaction in a CSTR― Journal of Physical Chemistry A, 1997, 101, 8966-8966.	2.5	2
57	Inhomogeneities of CSTR on a Macroscale Due to Spatial Dependence of Micromixing Time:  The BZ Reaction. Journal of Physical Chemistry A, 1998, 102, 188-191.	2.5	2
58	Blocking and transmission of traveling flow-distributed-oscillation waves in an absolutely unstable flowing medium. Physical Review E, 2012, 86, 026208.	2.1	1
59	Isotope effect on the location of variational transition states: The hydrogen exchange reaction. International Journal of Chemical Kinetics, 1986, 18, 1079-1086.	1.6	0
60	Reply to the â€~Comment on "Controlled pattern formation in the CDIMA reaction with a moving boundary of illuminationâ€â€™ by J. H. Merkin, Phys. Chem. Chem. Phys., 2003,5, 430. Physical Chemistry Chemical Physics, 2003, 5, 431-431.	2.8	0