Tibor Nagy

List of Publications by Year
in descending order

64 papers	1,402 citations	394421 19 h-index	345221 36 g-index
66 all docs	66 docs citations	66 times ranked	1477 citing authors

#	Article	IF	Citations
1	Comparison of the performance of several recent hydrogen combustion mechanisms. Combustion and Flame, 2014, 161, 2219-2234.	5.2	144
2	Reduction of very large reaction mechanisms using methods based on simulation error minimization. Combustion and Flame, 2009, 156, 417-428.	5.2	131
3	Development of a Joint Hydrogen and Syngas Combustion Mechanism Based on an Optimization Approach. International Journal of Chemical Kinetics, 2016, 48, 407-422.	1.6	122
4	Uncertainty of Arrhenius parameters. International Journal of Chemical Kinetics, 2011, 43, 359-378.	1.6	96
5	A shock tube and chemical kinetic modeling study of the pyrolysis and oxidation of butanols. Combustion and Flame, 2012, 159, 2009-2027.	5.2	87
6	Histopatological alterations and oxidative stress in liver and kidney of Leuciscus cephalus following exposure to heavy metals in the Tur River, North Western Romania. Ecotoxicology and Environmental Safety, 2015, 119, 198-205.	6.0	71
7	Multisurface Adiabatic Reactive Molecular Dynamics. Journal of Chemical Theory and Computation, 2014, 10, 1366-1375.	5.3	60
8	Uncertainty of the rate parameters of several important elementary reactions of the H2 and syngas combustion systems. Combustion and Flame, 2015, 162, 2059-2076.	5.2	55
9	Determination of the uncertainty domain of the Arrhenius parameters needed for the investigation of combustion kinetic models. Reliability Engineering and System Safety, 2012, 107, 29-34.	8.9	50
10	State-selected ionâ€“molecule reactions with Coulomb-crystallized molecular ions in traps. Chemical Physics Letters, 2012, 547, 1-8.	2.6	39
11	Kinetic isotope effect in malonaldehyde determined from path integral Monte Carlo simulations. Physical Chemistry Chemical Physics, 2014, 16, 204-211.	2.8	35
12	Computational study of collisions between O(3P) and NO(2Î) at temperatures relevant to the hypersonic flight regime. Journal of Chemical Physics, 2014, 141, 164319.	3.0	34
13	Rapid detection of hazardous chemicals in textiles by direct analysis in real-time mass spectrometry (DART-MS). Analytical and Bioanalytical Chemistry, 2016, 408, 5189-5198.	3.7	30
14	Adiabatic Switching Extended To Prepare Semiclassically Quantized Rotationalâ€“Vibrational Initial States for Quasiclassical Trajectory Calculations. Journal of Physical Chemistry Letters, 2017, 8, 4621-4626.	4.6	29
15	Comparison of Methane Combustion Mechanisms Using Shock Tube and Rapid Compression Machine Ignition Delay Time Measurements. Energy & Fuels, 2021, 35, 12329-12351.	5.1	23
16	Identification of Host Cellular Protein Substrates of SARS-COV-2 Main Protease. International Journal of Molecular Sciences, 2020, 21, 9523.	4.1	22
17	New insight into the kinetics of diisocyanateâ€“alcohol reactions by highâ€performance liquid chromatography and mass spectrometry. Journal of Applied Polymer Science, 2015, 132, .	2.6	21
18	Mass-Remainder Analysis (MARA): a New Data Mining Tool for Copolymer Characterization. Analytical Chemistry, 2018, 90, 3892-3897.	6.5	21

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19	Isocyanonaphthalenes as extremely low molecular weight, selective, ratiometric fluorescent probes for Mercury(II). Talanta, 2019, 201, 165-173.	5.5	21
20	Spilanthol Inhibits Inflammatory Transcription Factors and iNOS Expression in Macrophages and Exerts Anti-inflammatory Effects in Dermatitis and Pancreatitis. International Journal of Molecular Sciences, 2019, 20, 4308.	4.1	20
21	Competitive reaction pathways in vibrationally induced photodissociation of H₂SO₄. Physical Chemistry Chemical Physics, 2014, 16, 18533.	2.8	17
22	Comparison of methane combustion mechanisms using laminar burning velocity measurements. Combustion and Flame, 2022, 238, 111867.	5.2	17
23	<i>D</i>-region ionâ€“neutral coupled chemistry (SodankylÃ Ion Chemistry,) Tj ETQq1 1 0.784314 rgB WACCM-rSIC. Geoscientific Model Development, 2016, 9, 3123-3136.	3.6	16
24	HSO₃Cl: a prototype molecule for studying OH-stretching overtone induced photodissociation. Physical Chemistry Chemical Physics, 2016, 18, 6780-6788.	2.8	15
25	Correlation between Heavy Metal-Induced Histopathological Changes and Trophic Interactions between Different Fish Species. Applied Sciences (Switzerland), 2021, 11, 3760.	2.5	15
26	Screening of additives and other chemicals in polyurethanes by direct analysis in real time mass spectrometry (DART-MS). Analytical and Bioanalytical Chemistry, 2017, 409, 6149-6162.	3.7	14
27	Kinetics of Uncatalyzed Reactions of 2,4â€²- and 4,4â€²-Diphenylmethane-Diisocyanate with Primary and Secondary Alcohols. International Journal of Chemical Kinetics, 2017, 49, 643-655.	1.6	13
28	Oscillatory reaction cross sections caused by normal mode sampling in quasiclassical trajectory calculations. Journal of Chemical Physics, 2016, 144, 014104.	3.0	12
29	Rapid mapping of various chemicals in personal care and healthcare products by direct analysis in real time mass spectrometry. Talanta, 2019, 192, 241-247.	5.5	11
30	Mass-Remainder Analysis (MARA): An Improved Method for Elemental Composition Assignment in Petroleomics. Analytical Chemistry, 2019, 91, 6479-6486.	6.5	10
31	Chiral differentiation of the noscapine and hydrastine stereoisomers by electrospray ionization tandem mass spectrometry. Journal of Mass Spectrometry, 2015, 50, 240-246.	1.6	9
32	Biochemical characterization of Ty1 retrotransposon protease. PLoS ONE, 2020, 15, e0227062.	2.5	9
33	Rapid qualitative analysis of 2 flavonoids, rutin and silybin, in medical pills by direct analysis in realâ€time mass spectrometry (<scp>DARTâ€MS</scp>) combined with in situ derivatization. Journal of Mass Spectrometry, 2018, 53, 240-246.	1.6	8
34	Synthesis and supramolecular assembly of fluorinated biogenic amine recognition host polymers. Polymer Chemistry, 2019, 10, 5626-5634.	3.9	8
35	Multistep Mass-Remainder Analysis and its Application in Copolymer Blends. Macromolecules, 2020, 53, 1199-1204.	4.8	8
36	Direct analysis in real time mass spectrometry (DARTâ€MS) of highly nonâ€polar low molecular weight polyisobutylenes. Journal of Mass Spectrometry, 2015, 50, 1071-1078.	1.6	7

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37	Uncatalyzed reactions of 4,4â€²-diphenylmethane-diisocyanate with polymer polyols as revealed by matrix-assisted laser desorption/ionization mass spectrometry. RSC Advances, 2016, 6, 47023-47032.	3.6	7
38	Testing the Palmaâ€“Clary Reduced Dimensionality Model Using Classical Mechanics on the CH₄ + H â†' CH₃ + H₂ Reaction. Journal of Physical Chemistry A, 2016, 120, 5083-5093.	2.5	7
39	Synthesis and characterization of isophorondiamine-based oligoamides: catalytic effect of amides during the curing of epoxy resins. Polymer Bulletin, 2020, 77, 4655-4678.	3.3	7
40	Following the molecular motion of near-resonant excited CO on Pt(111): A simulated x-ray photoelectron diffraction study based on molecular dynamics calculations. Structural Dynamics, 2015, 2, 035102.	2.3	6
41	Mass Spectrometric Characterization of Epoxidized Vegetable Oils. Polymers, 2019, 11, 394.	4.5	6
42	Encoding Information into Polyethylene Glycol Using an Alcohol-Isocyanate â€œClickâ€•Reaction. International Journal of Molecular Sciences, 2020, 21, 1318.	4.1	6
43	Improved Modeling of Peptidic Foldamers Using a Quantum Chemical Parametrization Based on Torsional Minimum Energy Path Matching. ChemPlusChem, 2019, 84, 927-941.	2.8	5
44	Polydispersity Ratio and Its Application for the Characterization of Poloxamers. Macromolecules, 2021, 54, 9984-9991.	4.8	5
45	Relaxation of concentration perturbation in chemical kinetic systems. Reaction Kinetics and Catalysis Letters, 2009, 96, 269-278.	0.6	4
46	Electrospray ionization tandem mass spectrometry of the starâ€shaped propoxylated diethylenetriamine polyols. Journal of Mass Spectrometry, 2015, 50, 914-917.	1.6	4
47	Can Nonpolar Polyisobutylenes be Measured by Electrospray Ionization Mass Spectrometry? Anion-Attachment Proved to be an Appropriate Method. Journal of the American Society for Mass Spectrometry, 2016, 27, 432-442.	2.8	4
48	A general formulation of the quasiclassical trajectory method for reduced-dimensionality reaction dynamics calculations. Physical Chemistry Chemical Physics, 2018, 20, 13224-13240.	2.8	4
49	Biochemical Characterization of Human Retroviral-Like Aspartic Protease 1 (ASPRV1). Biomolecules, 2020, 10, 1004.	4.0	4
50	Mass Spectral Filtering by Mass-Remainder Analysis (MARA) at High Resolution and Its Application to Metabolite Profiling of Flavonoids. International Journal of Molecular Sciences, 2021, 22, 864.	4.1	4
51	Study on the bZIP-Type Transcription Factors NapA and RsmA in the Regulation of Intracellular Reactive Species Levels and Sterigmatocystin Production of Aspergillus nidulans. International Journal of Molecular Sciences, 2021, 22, 11577.	4.1	4
52	Design of combustion experiments using differential entropy. Combustion Theory and Modelling, 2022, 26, 67-90.	1.9	4
53	Automatic kinetic model generation and selection based on concentration versus time curves. International Journal of Chemical Kinetics, 2020, 52, 109-123.	1.6	3
54	Tandem Mass-Remainder Analysis of Industrially Important Polyether Polyols. Polymers, 2020, 12, 2768.	4.5	3

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55	Isocyanonaphthol Derivatives: Excited-State Proton Transfer and Solvatochromic Properties. International Journal of Molecular Sciences, 2022, 23, 7250.	4.1	3
56	Armâ€length distribution in fourâ€arm starâ€propoxylated ethylenediamine polyol by tandem mass spectrometry. Journal of Mass Spectrometry, 2013, 48, 1125-1127.	1.6	2
57	Reply to Comment on â€œMass-Remainder Analysis (MARA): A New Data Mining Tool for Copolymer Characterizationâ€•(An Example of Multiple Discovery). Analytical Chemistry, 2018, 90, 8719-8720.	6.5	2
58	Uncertainty analysis of varying temperature chemical kinetic systems. Procedia, Social and Behavioral Sciences, 2010, 2, 7757-7758.	0.5	1
59	Reactions of 2,6â€Toluene Diisocyanate with Alcohols: Kinetic Studies in the Absence and Presence of Catalysts. ChemistrySelect, 2017, 2, 11302-11306.	1.5	1
60	Oneâ€pot Synthesis of 1,3â€Butadiene and 1,6â€Hexanediol Derivatives from Cyclopentadiene (CPD) via Tandem Olefin Metathesis Reactions. ChemCatChem, 2018, 10, 4870-4877.	3.7	1
61	Structural Characterization of Daunomycin-Peptide Conjugates by Various Tandem Mass Spectrometric Techniques. International Journal of Molecular Sciences, 2021, 22, 1648.	4.1	1
62	A Short-Cut Data Mining Method for the Mass Spectrometric Characterization of Block Copolymers. Processes, 2022, 10, 42.	2.8	1
63	Quantification of Polyethylene Glycol 400 Excreted in the Urine by MALDI-TOF Mass Spectrometry. Pharmaceutics, 2022, 14, 1341.	4.5	1
64	Sequential Oscillations in the Ferroinâ€Catalyzed Belousovâ€Zhabotinsky Reaction: The Case of Oxalacetic Acid Substrate. ChemistrySelect, 2019, 4, 451-456.	1.5	0