

John Mitchell

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94
papers

2,426
citations

27
h-index

46
g-index

94
ext. papers

2,647
ext. citations

5.5
avg, IF

4.52
L-index

#	Paper	IF	Citations
94	The synthesis of water soluble dendrimers, and their application as possible drug delivery systems. <i>Tetrahedron Letters</i> , 1999 , 40, 1743-1746	2	202
93	Effect of Cosolvents and Cosolutes upon Aggregation Transitions in Aqueous Solutions of the Poloxamer F87 (Poloxamer P237): A High Sensitivity Differential Scanning Calorimetry Study. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 1738-1745		133
92	Physicochemical Properties of Poly(N-isopropylacrylamide-co-4-vinylpyridine) Cationic Polyelectrolyte Colloidal Microgels. <i>Langmuir</i> , 2003 , 19, 585-590	4	116
91	Taste masking of paracetamol by hot-melt extrusion: an in vitro and in vivo evaluation. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2012 , 80, 433-42	5.7	112
90	Improving Quantitative Measurements for the Evaporative Light Scattering Detector. <i>Chromatographia</i> , 2004 , 60, 625-633	2.1	83
89	Development and physico-mechanical characterisation of lyophilised chitosan wafers as potential protein drug delivery systems via the buccal mucosa. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012 , 91, 258-65	6	73
88	A kinetic study of the oxidation of L-ascorbic acid (vitamin C) in solution using an isothermal microcalorimeter. <i>Thermochimica Acta</i> , 1995 , 264, 27-40	2.9	73
87	Mesoporous silica nanoparticles in nanotechnology. <i>Critical Reviews in Biotechnology</i> , 2013 , 33, 229-45	9.4	68
86	Scanning densitometric and calorimetric studies of poly(ethylene oxide)/poly(propylene oxide)/poly(ethylene oxide) triblock copolymers (poloxamers) in dilute aqueous solution. <i>The Journal of Physical Chemistry</i> , 1993 , 97, 3904-3909		60
85	The synthesis of chiral dendritic molecules based on the repeat unit L-glutamic acid. <i>Tetrahedron Letters</i> , 1994 , 35, 4423-4424	2	60
84	Predictive Milling of Pharmaceutical Materials Using Nanoindentation of Single Crystals. <i>Organic Process Research and Development</i> , 2004 , 8, 674-679	3.9	58
83	An Investigation of Dilute Aqueous Solution Behavior of Poly(oxyethylene) + Poly(oxypropylene) + Poly(oxyethylene) Block Copolymers. <i>Langmuir</i> , 1994 , 10, 4001-4005	4	56
82	Development and functional characterization of alginate dressing as potential protein delivery system for wound healing. <i>International Journal of Biological Macromolecules</i> , 2015 , 81, 137-50	7.9	55
81	A comparison of Raman chemical images produced by univariate and multivariate data processing simulation with an example from pharmaceutical practice. <i>Analyst, The</i> , 2004 , 129, 1001-1007	5	52
80	The stability of benzoyl peroxide by isothermal microcalorimetry. <i>International Journal of Pharmaceutics</i> , 2001 , 227, 133-7	6.5	45
79	Scanning Microcalorimetric Investigations of Phase Transitions in Dilute Aqueous Solutions of Poly(oxypropylene). <i>The Journal of Physical Chemistry</i> , 1995 , 99, 4590-4598		41
78	The base catalysed hydrolysis of methyl paraben: a test reaction for flow microcalorimeters used for determination of both kinetic and thermodynamic parameters. <i>Thermochimica Acta</i> , 2003 , 399, 63-71	2.9	39

77	Thermodynamic and kinetic analysis of isothermal microcalorimetric data: applications to consecutive reaction schemes. <i>Thermochimica Acta</i> , 1999 , 328, 39-45	2.9	36
76	Preparation of olanzapine and methyl- β -cyclodextrin complexes using a single-step, organic solvent-free supercritical fluid process: An approach to enhance the solubility and dissolution properties. <i>International Journal of Pharmaceutics</i> , 2015 , 494, 408-16	6.5	35
75	Pharmaceutical microcalorimetry: applications to long-term stability studies. <i>International Journal of Pharmaceutics</i> , 1999 , 179, 159-65	6.5	34
74	In vitro characterisation of chitosan based xerogels for potential buccal delivery of proteins. <i>Carbohydrate Polymers</i> , 2012 , 89, 935-41	10.3	33
73	The imidazole catalysed hydrolysis of triacetin: an inter- and intra-laboratory development of a test reaction for isothermal heat conduction microcalorimeters used for determination of both thermodynamic and kinetic parameters. <i>Thermochimica Acta</i> , 2001 , 380, 13-17	2.9	32
72	A mild, convenient, halogen-exchange route to gem-difluorides and trifluorides.. <i>Tetrahedron Letters</i> , 1987 , 28, 5347-5350	2	31
71	A Comparison of Catalysts to Promote Imidazolide Couplings Including the Identification of 2-Hydroxy-5-nitropyridine as a New, Safe, and Effective Catalyst. <i>Organic Process Research and Development</i> , 2005 , 9, 956-961	3.9	30
70	Raman line mapping as a fast method for analyzing pharmaceutical bead formulations. <i>Analyst, The</i> , 2005 , 130, 1530-6	5	30
69	Synthesis and properties of polyelectrolyte microgel particles. <i>Advances in Colloid and Interface Science</i> , 2010 , 158, 15-20	14.3	29
68	Influence of lipophilicity on drug β -cyclodextrin interactions: A calorimetric study. <i>Thermochimica Acta</i> , 2010 , 511, 102-106	2.9	27
67	Influence of the preparation method on the physicochemical properties of indomethacin and methyl- β -cyclodextrin complexes. <i>International Journal of Pharmaceutics</i> , 2015 , 479, 381-90	6.5	26
66	Formulation, characterisation and stabilisation of buccal films for paediatric drug delivery of omeprazole. <i>AAPS PharmSciTech</i> , 2015 , 16, 800-10	3.9	26
65	Temperature induced aggregation in aqueous solution of a series of PEOBPOBEO copolymers. <i>International Journal of Pharmaceutics</i> , 1998 , 174, 39-46	6.5	26
64	Theoretical prediction of the enantiomeric excess in asymmetric catalysis. An alignment-independent molecular interaction field based approach. <i>Journal of Organic Chemistry</i> , 2005 , 70, 9025-7	4.2	26
63	Microcalorimetry in the screening of discovery compounds and in the investigation of novel drug delivery systems. <i>Thermochimica Acta</i> , 1995 , 250, 277-283	2.9	26
62	Local examination of skin diffusion using FTIR spectroscopic imaging and multivariate target factor analysis. <i>Analytica Chimica Acta</i> , 2009 , 642, 246-56	6.6	25
61	Solid state reactions studied by isothermal microcalorimetry; The solid state oxidation of ascorbic acid. <i>International Journal of Pharmaceutics</i> , 1996 , 132, 45-51	6.5	25
60	The thermal and storage stability of bovine haemoglobin by ultraviolet-visible and circular dichroism spectroscopies. <i>Journal of Pharmaceutical Analysis</i> , 2016 , 6, 242-248	14	24

59	Practical solvent system selection for counter-current separation of pharmaceutical compounds. <i>Journal of Chromatography A</i> , 2008 , 1207, 190-2	4.5	24
58	The synthesis of immobilised chiral dendrimers. <i>New Journal of Chemistry</i> , 2001 , 25, 807-818	3.6	24
57	Functional characterisation and permeation studies of lyophilised thiolated chitosan xerogels for buccal delivery of insulin. <i>Protein and Peptide Letters</i> , 2014 , 21, 1163-75	1.9	24
56	Effect of membrane dialysis on characteristics of lyophilised chitosan wafers for potential buccal delivery of proteins. <i>International Journal of Biological Macromolecules</i> , 2012 , 50, 905-9	7.9	23
55	A microcalorimetric comparison of the anti-Streptococcus mutans efficacy of plant extracts and antimicrobial agents in oral hygiene formulations. <i>Journal of Applied Microbiology</i> , 2001 , 90, 53-8	4.7	23
54	The imidazole catalysed hydrolysis of triacetin: a medium term chemical calibrant for isothermal microcalorimeters. <i>Thermochimica Acta</i> , 1999 , 325, 125-132	2.9	22
53	Analyzing Raman maps of pharmaceutical products by sample-sample two-dimensional correlation. <i>Applied Spectroscopy</i> , 2005 , 59, 630-8	3.1	21
52	UV-spectrophotometry study of membrane transport processes with a novel diffusion cell. <i>International Journal of Pharmaceutics</i> , 2001 , 229, 87-94	6.5	21
51	Mechanistic aspects of oxygen transfer by gem-dialkylperoxonium ions. <i>Journal of Organic Chemistry</i> , 1988 , 53, 1078-1082	4.2	20
50	Investigation of the permeation of model formulations and a commercial ibuprofen formulation in Carbosil and human skin using ATR-FTIR and multivariate spectral analysis. <i>International Journal of Pharmaceutics</i> , 2009 , 374, 17-25	6.5	18
49	Effect of plasma surface treatment of poly(dimethylsiloxane) on the permeation of pharmaceutical compounds. <i>Journal of Pharmaceutical Analysis</i> , 2017 , 7, 338-342	14	17
48	Isothermal titration calorimetric studies of the acid/base properties of poly(N-isopropylacrylamide-co-4-vinylpyridine) cationic polyelectrolyte colloidal microgels. <i>Thermochimica Acta</i> , 2004 , 414, 47-52	2.9	17
47	Identification of New Catalysts to Promote Imidazolide Couplings and Optimisation of Reaction Conditions Using Kinetic Modelling. <i>Organic Process Research and Development</i> , 2004 , 8, 1054-1058	3.9	17
46	Effects of crystal habit on the sticking propensity of ibuprofen-A case study. <i>International Journal of Pharmaceutics</i> , 2017 , 531, 266-275	6.5	16
45	Accuracy vs time dilemma on the prediction of NMR chemical shifts: a case study (chloropyrimidines). <i>Journal of Organic Chemistry</i> , 2006 , 71, 3103-10	4.2	14
44	The stability of benzoyl peroxide formulations determined from isothermal microcalorimetric studies. <i>International Journal of Pharmaceutics</i> , 2001 , 225, 135-43	6.5	14
43	Cycloadditions with quadricyclane. Synthesis of fused-ring 1,2-diazetidines. <i>Journal of Organic Chemistry</i> , 1979 , 44, 2288-2290	4.2	14
42	Sources of error, and their correction, in the analysis of isothermal heat conduction microcalorimetric data: applications of a newly developed test reaction. <i>Thermochimica Acta</i> , 2001 , 380, 19-26	2.9	13

41	Surfactant and temperature effects on paraben transport through silicone membranes. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 108, 23-8	6	12
40	Thermodynamic and kinetic parameters from isothermal heat conduction microcalorimetry. <i>Pure and Applied Chemistry</i> , 1998 , 70, 633-638	2.1	12
39	pH Effects in Micellar Liquid Chromatographic Analysis for Determining Partition Coefficients for a Series of Pharmaceutically Related Compounds. <i>Current Pharmaceutical Analysis</i> , 2012 , 8, 272-277	0.6	11
38	Surface enhanced Raman scattering (SERS) study of membrane transport processes. <i>International Journal of Pharmaceutics</i> , 1997 , 154, 115-118	6.5	11
37	Isolation and identification of trichothecenes from <i>Fusarium compactum</i> suspected in the aetiology of a major intoxication of sandhill cranes. <i>Journal of Agricultural and Food Chemistry</i> , 1988 , 36, 1163-1167	5.7	11
36	Kinetic Data by Nonisothermal Reaction Calorimetry: A Model-Assisted Calorimetric Evaluation. <i>Organic Process Research and Development</i> , 2007 , 11, 25-29	3.9	10
35	Oxygen transfer by dialkylperoxonium ions. <i>Journal of Organic Chemistry</i> , 1986 , 51, 2612-2613	4.2	10
34	Determination of Michaelis-Menten parameters obtained from isothermal flow calorimetric data. <i>Thermochimica Acta</i> , 2004 , 417, 187-192	2.9	9
33	Thermochemical investigation of possible interactions between urea and some sparingly soluble solutes in aqueous solution. <i>Thermochimica Acta</i> , 1995 , 255, 83-91	2.9	9
32	Alkylated peroxides: peroxonium versus phenonium intermediates from .beta.-haloalkyl tert-butyl peroxides and silver trifluoroacetate. <i>Journal of Organic Chemistry</i> , 1986 , 51, 1790-1793	4.2	9
31	Investigation of the Potential of the Dissolution Dynamic Nuclear Polarization Method for General Sensitivity Enhancement in Small-Molecule NMR Spectroscopy. <i>Applied Magnetic Resonance</i> , 2008 , 34, 453-460	0.8	8
30	Microcalorimetric study of a proposed test reaction—the imidazole catalysed hydrolysis of triacetin: Temperature and imidazole concentration dependence. <i>Thermochimica Acta</i> , 2002 , 386, 139-142	2.9	8
29	Solute-Solvent Interactions from Diffusion of Flavonoids in Methanol. <i>Journal of Solution Chemistry</i> , 1999 , 28, 1107-1112	1.8	8
28	Polyoxyethylene-polyoxypropylene block copolymers: a novel phase transition in aqueous solutions of pluronic F87 (poloxamer 237). <i>Journal of the Chemical Society Chemical Communications</i> , 1990 , 900-901		8
27	Flash vacuum thermolysis of 1,2-diazetidines. <i>Journal of the American Chemical Society</i> , 1980 , 102, 837-838	3.4	8
26	Influence of Alkyl Chain Length and Structure on the Extraction of Copper(II) from Aqueous Acid by 5-Alkyl-2-hydroxybenzaloximes in Hydrocarbon Solvents: Diffusion Coefficients of Extractants and Their Complexes. <i>Journal of Colloid and Interface Science</i> , 1999 , 213, 87-91	9.3	7
25	Stereochemical evidence for an alkylated peroxide intermediate. <i>Journal of Organic Chemistry</i> , 1987 , 52, 1124-1128	4.2	7
24	Construction and physiochemical characterisation of a multi-composite, potential oral vaccine delivery system (VDS). <i>International Journal of Pharmaceutics</i> , 2014 , 468, 264-71	6.5	6

23	Effect of Pressure on the Melting Point of Pluronics in Pressurized Carbon Dioxide. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 10820-10825	3.9	6
22	Survey of the effect of fill volume on the values for the enthalpy and rate constant derived from isothermal microcalorimetry: applications of a newly developed test reaction. <i>Thermochimica Acta</i> , 2003 , 397, 163-169	2.9	6
21	Intramolecular alkylation of peroxides and hydroperoxides; peroxide transfer via peroxonium intermediates. <i>Tetrahedron Letters</i> , 1983 , 24, 543-546	2	6
20	Structural studies of an oligomer (vinyl chloride tetramer) isolated from poly(vinyl chloride) resin used for food packaging applications. <i>European Polymer Journal</i> , 1985 , 21, 555-559	5.2	6
19	Conversion of sustained release omeprazole loaded buccal films into fast dissolving strips using supercritical carbon dioxide (scCO ₂) processing, for potential paediatric drug delivery. <i>European Journal of Pharmaceutical Sciences</i> , 2016 , 93, 45-55	5.1	6
18	Study of the Effect of Pressure on Melting Behavior of Saturated Fatty Acids in Liquid or Supercritical Carbon Dioxide. <i>Journal of Chemical & Engineering Data</i> , 2013 , 58, 1861-1866	2.8	5
17	Semi-quantitative analysis of the monomer composition in co-polymer microgels using solid state Raman and NMR spectroscopy. <i>Analyst, The</i> , 2009 , 134, 1366-72	5	5
16	Evidence for the existence of peroxonium intermediates. <i>Tetrahedron Letters</i> , 1984 , 25, 3769-3772	2	4
15	Conformational analysis of fused-ring 1,2-diazetidines by carbon-13 nuclear magnetic resonance spectroscopy. <i>Journal of Organic Chemistry</i> , 1981 , 46, 501-505	4.2	4
14	The Use of Bile Salt Micelles for the Prediction of Human Intestinal Absorption. <i>Journal of Pharmaceutical Sciences</i> , 2016 , 105, 3611-3614	3.9	3
13	Taylor-Aris Diffusion Studies of Solute-Polymer Interactions. 1. Alkyl p-Hydroxybenzoates with an ABA Block Copolymer (Ploxamer P407) in Aqueous Solution. <i>Langmuir</i> , 1994 , 10, 3431-3434	4	3
12	Identification of a novel side-product formed during the methylation of sulphapyridine prior to gas chromatographic analysis. <i>Journal of Chromatography A</i> , 1986 , 356, 206-11	4.5	3
11	The chemistry of peroxonium ions and dioxygen ylides. <i>Chemical Society Reviews</i> , 1985 , 14, 399	58.5	3
10	Mesoporous silica particles as potential carriers for protein drug delivery: protein immobilization and the effect of displacer on IgG release. <i>Drug Development and Industrial Pharmacy</i> , 2020 , 46, 576-586	3.6	2
9	The development of a novel smart material based on colloidal microgels and cotton. <i>Advances in Colloid and Interface Science</i> , 2018 , 256, 193-202	14.3	2
8	Monitoring real time polymorphic transformation of sulfanilamide by diffuse reflectance visible spectroscopy. <i>Journal of Pharmaceutical Analysis</i> , 2016 , 6, 179-183	14	2
7	Perichromism: A Novel, Rapid, Spectroscopic Technique to Distinguish between Amorphous and Crystalline Material. <i>Applied Spectroscopy</i> , 2011 , 65, 1357-1362	3.1	2
6	Isothermal microcalorimetry as a tool to study solid-vapour interactions: design and testing of a novel hydration apparatus. <i>Thermochimica Acta</i> , 2003 , 399, 91-98	2.9	2

- 5 Continuous tank reactor synthesis of highly substituted sulphobutylether β -cyclodextrins. *International Journal of Pharmaceutics*, **2015**, 495, 862-8 6.5 1
- 4 Microcalorimetry and the Taylor-Aris method in the study of partition processes. *Pest Management Science*, **1992**, 35, 375-379 1
- 3 Reduction of 1,2-diaroyl-1,2-diazetidines by lithium aluminum hydride. *Journal of Heterocyclic Chemistry*, **1979**, 16, 1637-1638 1.9 1
- 2 Determination of the thermodynamic parameters for transfer of alkoxyphenols from aqueous solution to SDS micelles by a Taylor-Aris diffusion technique. *Journal of the Chemical Society, Faraday Transactions*, **1991**, 87, 2741-2744
- 1 Moniliformin; a(13)C and (1)H NMR study. *Mycotoxin Research*, **1985**, 1, 83-6 4