

Sergey Vyazovkin

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5427680/publications.pdf>

Version: 2024-02-01

218
papers

23,448
citations

19657

61
h-index

8167

148
g-index

229
all docs

229
docs citations

229
times ranked

10223
citing authors

#	ARTICLE	IF	CITATIONS
1	ICTAC Kinetics Committee recommendations for performing kinetic computations on thermal analysis data. <i>Thermochimica Acta</i> , 2011, 520, 1-19.	2.7	4,299
2	Model-free and model-fitting approaches to kinetic analysis of isothermal and nonisothermal data. <i>Thermochimica Acta</i> , 1999, 340-341, 53-68.	2.7	1,111
3	Modification of the integral isoconversional method to account for variation in the activation energy. <i>Journal of Computational Chemistry</i> , 2001, 22, 178-183.	3.3	1,000
4	Isoconversional Kinetic Analysis of Thermally Stimulated Processes in Polymers. <i>Macromolecular Rapid Communications</i> , 2006, 27, 1515-1532.	3.9	940
5	ICTAC Kinetics Committee recommendations for collecting experimental thermal analysis data for kinetic computations. <i>Thermochimica Acta</i> , 2014, 590, 1-23.	2.7	929
6	Computational aspects of kinetic analysis. <i>Thermochimica Acta</i> , 2000, 355, 125-143.	2.7	746
7	Evaluation of activation energy of thermally stimulated solid-state reactions under arbitrary variation of temperature. <i>Journal of Computational Chemistry</i> , 1997, 18, 393-402.	3.3	685
8	Kinetics of the Thermal and Thermo-Oxidative Degradation of Polystyrene, Polyethylene and Poly(propylene). <i>Macromolecular Chemistry and Physics</i> , 2001, 202, 775-784.	2.2	617
9	Linear and Nonlinear Procedures in Isoconversional Computations of the Activation Energy of Nonisothermal Reactions in Solids. <i>Journal of Chemical Information and Computer Sciences</i> , 1996, 36, 42-45.	2.8	520
10	A unified approach to kinetic processing of nonisothermal data. <i>International Journal of Chemical Kinetics</i> , 1996, 28, 95-101.	1.6	496
11	KINETICS IN SOLIDS. <i>Annual Review of Physical Chemistry</i> , 1997, 48, 125-149.	10.8	490
12	Computational aspects of kinetic analysis.. <i>Thermochimica Acta</i> , 2000, 355, 155-163.	2.7	490
13	ICTAC Kinetics Committee recommendations for analysis of multi-step kinetics. <i>Thermochimica Acta</i> , 2020, 689, 178597.	2.7	482
14	Isothermal and non-isothermal kinetics of thermally stimulated reactions of solids. <i>International Reviews in Physical Chemistry</i> , 1998, 17, 407-433.	2.3	460
15	Mechanism and Kinetics of Epoxyâ€™ Amine Cure Studied by Differential Scanning Calorimetry. <i>Macromolecules</i> , 1996, 29, 1867-1873.	4.8	414
16	Model-free kinetics. <i>Journal of Thermal Analysis and Calorimetry</i> , 2006, 83, 45-51.	3.6	395
17	Kinetic concepts of thermally stimulated reactions in solids: A view from a historical perspective. <i>International Reviews in Physical Chemistry</i> , 2000, 19, 45-60.	2.3	346
18	Kinetics of Thermal Decomposition of Cubic Ammonium Perchlorate. <i>Chemistry of Materials</i> , 1999, 11, 3386-3393.	6.7	246

#	ARTICLE	IF	CITATIONS
19	Improvement of Quality in Publication of Experimental Thermophysical Property Data: Challenges, Assessment Tools, Global Implementation, and Online Support. <i>Journal of Chemical & Engineering Data</i> , 2013, 58, 2699-2716.	1.9	236
20	An approach to the solution of the inverse kinetic problem in the case of complex processes. <i>Thermochimica Acta</i> , 1990, 165, 273-280.	2.7	228
21	Isothermal and Nonisothermal Reaction Kinetics in Solids: In Search of Ways toward Consensus. <i>Journal of Physical Chemistry A</i> , 1997, 101, 8279-8284.	2.5	227
22	Learning about epoxy cure mechanisms from isoconversional analysis of DSC data. <i>Thermochimica Acta</i> , 2002, 388, 289-298.	2.7	222
23	Isoconversional Kinetics of Thermally Stimulated Processes. , 2015, , .		209
24	A Study of Epoxy-Amine Cure Kinetics by Combining Isoconversional Analysis with Temperature Modulated DSC and Dynamic Rheometry. <i>Macromolecular Chemistry and Physics</i> , 2003, 204, 1815-1821.	2.2	200
25	Is the Kissinger Equation Applicable to the Processes that Occur on Cooling?. <i>Macromolecular Rapid Communications</i> , 2002, 23, 771-775.	3.9	198
26	Isoconversional Approach to Evaluating the Hoffman-Lauritzen Parameters (U^* and K_g) from the Overall Rates of Nonisothermal Crystallization. <i>Macromolecular Rapid Communications</i> , 2004, 25, 733-738.	3.9	195
27	Isoconversional Analysis of Calorimetric Data on Nonisothermal Crystallization of a Polymer Melt. <i>Journal of Physical Chemistry B</i> , 2003, 107, 882-888.	2.6	178
28	Kinetic methods to study isothermal and nonisothermal epoxy-anhydride cure. <i>Macromolecular Chemistry and Physics</i> , 1999, 200, 2294-2303.	2.2	176
29	A time to search: finding the meaning of variable activation energy. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 18643-18656.	2.8	158
30	Isoconversional Analysis of Combined Melt and Glass Crystallization Data. <i>Macromolecular Chemistry and Physics</i> , 2006, 207, 20-25.	2.2	157
31	Kinetic Study of Stabilizing Effect of Oxygen on Thermal Degradation of Poly(methyl methacrylate). <i>Journal of Physical Chemistry B</i> , 1999, 103, 8087-8092.	2.6	154
32	Kissinger Method in Kinetics of Materials: Things to Beware and Be Aware of. <i>Molecules</i> , 2020, 25, 2813.	3.8	149
33	On the phenomenon of variable activation energy for condensed phase reactions. <i>New Journal of Chemistry</i> , 2000, 24, 913-917.	2.8	145
34	Nanoconfinement Revealed in Degradation and Relaxation Studies of Two Structurally Different Polystyrene-Clay Systems. <i>Journal of Physical Chemistry B</i> , 2007, 111, 12685-12692.	2.6	144
35	Kinetics of the Thermal and Thermo-Oxidative Degradation of a Polystyrene-Clay Nanocomposite. <i>Macromolecular Rapid Communications</i> , 2004, 25, 498-503.	3.9	135
36	False isokinetic relationships found in the nonisothermal decomposition of solids. <i>Chemical Physics</i> , 1995, 193, 109-118.	1.9	133

#	ARTICLE	IF	CITATIONS
37	Ammonium Dinitramide: Kinetics and Mechanism of Thermal Decomposition. <i>Journal of Physical Chemistry A</i> , 1997, 101, 5653-5658.	2.5	107
38	Estimation of the pre-exponential factor in the isoconversional calculation of effective kinetic parameters. <i>Thermochimica Acta</i> , 1988, 128, 297-300.	2.7	105
39	Thermal Dissociation Kinetics of Solid and Liquid Ammonium Nitrate. <i>Chemistry of Materials</i> , 2001, 13, 960-966.	6.7	96
40	Physical Stability and Relaxation of Amorphous Indomethacin. <i>Journal of Physical Chemistry B</i> , 2005, 109, 18637-18644.	2.6	95
41	Isoconversional Analysis of the Nonisothermal Crystallization of a Polymer Melt. <i>Macromolecular Rapid Communications</i> , 2002, 23, 766-770.	3.9	92
42	A DSC Study of α - and β -Relaxations in a PS/Clay System. <i>Journal of Physical Chemistry B</i> , 2004, 108, 11981-11987.	2.6	92
43	Degradation and Relaxation Kinetics of Polystyrene/Clay Nanocomposite Prepared by Surface Initiated Polymerization. <i>Journal of Physical Chemistry B</i> , 2004, 108, 11672-11679.	2.6	90
44	Kinetic analysis of reversible thermal decomposition of solids. <i>International Journal of Chemical Kinetics</i> , 1995, 27, 73-84.	1.6	89
45	Estimating Realistic Confidence Intervals for the Activation Energy Determined from Thermoanalytical Measurements. <i>Analytical Chemistry</i> , 2000, 72, 3171-3175.	6.5	89
46	Isoconversional Kinetics of Polymers: The Decade Past. <i>Macromolecular Rapid Communications</i> , 2017, 38, 1600615.	3.9	89
47	Crystallization Kinetics of Amorphous Nifedipine Studied by Model-Fitting and Model-Free Approaches. <i>Journal of Pharmaceutical Sciences</i> , 2003, 92, 1779-1792.	3.3	83
48	Reply to "What is meant by the term "variable activation energy" when applied in the kinetics analyses of solid state decompositions (crystolysis reactions)?" <i>Thermochimica Acta</i> , 2003, 397, 269-271.	2.7	80
49	Effect of Physical Aging on Nucleation of Amorphous Indomethacin. <i>Journal of Physical Chemistry B</i> , 2007, 111, 7283-7287.	2.6	79
50	Variation of the Effective Activation Energy Throughout the Glass Transition. <i>Macromolecular Rapid Communications</i> , 2004, 25, 1708-1713.	3.9	75
51	Effect of pressure and sample type on decomposition of ammonium perchlorate. <i>Combustion and Flame</i> , 2006, 145, 779-790.	5.2	74
52	Thermally induced reactions of solids: Isokinetic relationships of non-isothermal systems. <i>International Reviews in Physical Chemistry</i> , 1995, 14, 355-369.	2.3	73
53	Kinetics of Epoxy/Amine Curing Accompanied by the Formation of Liquid Crystalline Structure. <i>Macromolecular Rapid Communications</i> , 2003, 24, 1060-1065.	3.9	73
54	Modern Isoconversional Kinetics: From Misconceptions to Advances. <i>Handbook of Thermal Analysis and Calorimetry</i> , 2018, 6, 131-172.	1.6	71

#	ARTICLE	IF	CITATIONS
55	Practical application of isoconversional methods. <i>Thermochimica Acta</i> , 1992, 203, 177-185.	2.7	69
56	The Next 100 Years of Polymer Science. <i>Macromolecular Chemistry and Physics</i> , 2020, 221, 2000216.	2.2	69
57	Conversion dependence of activation energy for model DSC curves of consecutive reactions. <i>Thermochimica Acta</i> , 1994, 236, 1-13.	2.7	67
58	Estimating the activation energy for non-isothermal crystallization of polymer melts. <i>Journal of Thermal Analysis and Calorimetry</i> , 2003, 72, 681-686.	3.6	67
59	Thermal Denaturation of Collagen Analyzed by Isoconversional Method. <i>Macromolecular Bioscience</i> , 2007, 7, 1181-1186.	4.1	65
60	Variation in Activation Energy of the Glass Transition for Polymers of Different Dynamic Fragility. <i>Macromolecular Chemistry and Physics</i> , 2006, 207, 1126-1130.	2.2	64
61	Isoconversional method to explore the mechanism and kinetics of multi-step epoxy cures. <i>Macromolecular Rapid Communications</i> , 1999, 20, 387-389.	3.9	63
62	Isoconversional Kinetics. <i>Handbook of Thermal Analysis and Calorimetry</i> , 2008, 5, 503-538.	1.6	63
63	Competitive Vaporization and Decomposition of Liquid RDX. <i>Journal of Physical Chemistry B</i> , 2000, 104, 2570-2574.	2.6	62
64	Potentialities of software for kinetic processing of thermoanalytical data by the isoconversion method. <i>Thermochimica Acta</i> , 1992, 194, 221-230.	2.7	61
65	Alternative description of process kinetics. <i>Thermochimica Acta</i> , 1992, 211, 181-187.	2.7	61
66	The Application of Isoconversional Methods for Analyzing Isokinetic Relationships Occurring at Thermal Decomposition of Solids. <i>Journal of Solid State Chemistry</i> , 1995, 114, 392-398.	2.9	60
67	An approach to the solution of the inverse kinetic problem in the case of complex processes. Part III. Parallel independent reactions. <i>Thermochimica Acta</i> , 1992, 197, 41-51.	2.7	57
68	Effect of viscosity on the kinetics of initial cure stages. <i>Macromolecular Chemistry and Physics</i> , 2000, 201, 199-203.	2.2	57
69	Thermal Analysis. <i>Analytical Chemistry</i> , 2002, 74, 2749-2762.	6.5	55
70	Two Types of Uncertainty in the Values of Activation Energy. <i>Magyar Árvad Kémlemlenyek</i> , 2001, 64, 829-835.	1.4	54
71	Effect of the Brush Structure on the Degradation Mechanism of Polystyrene-Clay Nanocomposites. <i>Macromolecular Rapid Communications</i> , 2005, 26, 690-695.	3.9	54
72	Hoffman-Lauritzen parameters for non-isothermal crystallization of poly(ethylene terephthalate) and poly(ethylene oxide) melts. <i>Journal of Thermal Analysis and Calorimetry</i> , 2005, 80, 177-180.	3.6	53

#	ARTICLE	IF	CITATIONS
73	An approach to the solution of the inverse kinetic problem in the case of complex processes. <i>Thermochimica Acta</i> , 1993, 223, 201-206.	2.7	52
74	Comparison of several computational procedures for evaluating the kinetics of thermally stimulated condensed phase reactions. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2000, 54, 53-60.	3.5	52
75	Probing Beta Relaxation in Pharmaceutically Relevant Glasses by Using DSC. <i>Pharmaceutical Research</i> , 2006, 23, 422-428.	3.5	52
76	Tacticity as a Factor Contributing to the Thermal Stability of Polystyrene. <i>Macromolecular Chemistry and Physics</i> , 2007, 208, 2525-2532.	2.2	52
77	Activation Energies and Temperature Dependencies of the Rates of Crystallization and Melting of Polymers. <i>Polymers</i> , 2020, 12, 1070.	4.5	51
78	Determining Preexponential Factor in Model-Free Kinetic Methods: How and Why?. <i>Molecules</i> , 2021, 26, 3077.	3.8	51
79	Temperature Dependence of Sol-Gel Conversion Kinetics in Gelatin-Water System. <i>Macromolecular Bioscience</i> , 2009, 9, 383-392.	4.1	49
80	Kinetic effects of pressure on decomposition of solids. <i>International Reviews in Physical Chemistry</i> , 2020, 39, 35-66.	2.3	49
81	Confidence intervals for the activation energy estimated by few experiments. <i>Analytica Chimica Acta</i> , 1997, 355, 175-180.	5.4	48
82	Thermal decomposition kinetics of PBAN-binder and composite solid rocket propellants. <i>Combustion and Flame</i> , 1999, 119, 174-181.	5.2	48
83	Model-free treatment of the dehydration kinetics of nedocromil sodium trihydrate. <i>Journal of Pharmaceutical Sciences</i> , 2003, 92, 1367-1376.	3.3	48
84	Error in determining activation energy caused by the wrong choice of process model. <i>Thermochimica Acta</i> , 1990, 165, 11-15.	2.7	47
85	Kinetic analysis of isothermal cures performed below the limiting glass transition temperature. <i>Macromolecular Rapid Communications</i> , 2000, 21, 85-90.	3.9	47
86	Mechanistic Differences in Degradation of Polystyrene and Polystyrene-Clay Nanocomposite: Thermal and Thermo-Oxidative Degradation. <i>Macromolecular Chemistry and Physics</i> , 2006, 207, 587-595.	2.2	47
87	Thermal Decomposition of Ammonium Dinitramide at Moderate and High Temperatures. <i>Journal of Physical Chemistry A</i> , 1997, 101, 7217-7221.	2.5	46
88	ICTAC Kinetics Committee recommendations for analysis of thermal polymerization kinetics. <i>Thermochimica Acta</i> , 2022, 714, 179243.	2.7	44
89	Stabilizing effect of oxygen on thermal degradation of poly(methyl methacrylate). <i>Macromolecular Rapid Communications</i> , 1999, 20, 480-483.	3.9	42
90	Thermal Analysis. <i>Analytical Chemistry</i> , 2008, 80, 4301-4316.	6.5	41

#	ARTICLE	IF	CITATIONS
91	Polyvinylpyrrolidone affects thermal stability of drugs in solid dispersions. <i>International Journal of Pharmaceutics</i> , 2018, 551, 111-120.	5.2	41
92	Isoconversional kinetics of degradation of polyvinylpyrrolidone used as a matrix for ammonium nitrate stabilization. <i>Thermochimica Acta</i> , 2008, 474, 78-80.	2.7	40
93	Thermal stability of gelatin gels: Effect of preparation conditions on the activation energy barrier to melting. <i>Polymer</i> , 2009, 50, 4859-4867.	3.8	40
94	Discovering the kinetics of thermal decomposition during continuous cooling. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 32021-32030.	2.8	37
95	Thermal Analysis. <i>Analytical Chemistry</i> , 2006, 78, 3875-3886.	6.5	36
96	Activation energies of water vaporization from the bulk and from laponite, montmorillonite, and chitosan powders. <i>Thermochimica Acta</i> , 2011, 524, 197-197.	2.7	36
97	Thermal decomposition of tetrazole. <i>Thermochimica Acta</i> , 1990, 165, 17-22.	2.7	35
98	Reliability of conversion-time dependencies as predicted from thermal analysis data. <i>Analytica Chimica Acta</i> , 1994, 295, 101-107.	5.4	35
99	Dehydration kinetics of neotame monohydrate. <i>Journal of Pharmaceutical Sciences</i> , 2002, 91, 1423-1431.	3.3	35
100	Isoconversional Kinetics of Glass Aging. <i>Journal of Physical Chemistry B</i> , 2009, 113, 4631-4635.	2.6	33
101	Delving into the Kinetics of Reversible Thermal Decomposition of Solids Measured on Heating and Cooling. <i>Journal of Physical Chemistry C</i> , 2017, 121, 15392-15401.	3.1	33
102	On the methods of solving the inverse problem of solid-phase reaction kinetics. <i>Journal of Thermal Analysis</i> , 1989, 35, 2169-2188.	0.6	30
103	Hard to swallow dry: Kinetics and mechanism of the anhydrous thermal decomposition of acetylsalicylic acid. <i>Journal of Pharmaceutical Sciences</i> , 2002, 91, 800-809.	3.3	30
104	Artificial Neural Networks for Pyrolysis, Thermal Analysis, and Thermokinetic Studies: The Status Quo. <i>Molecules</i> , 2021, 26, 3727.	3.8	30
105	Atypical gelation in gelatin solutions probed by ultra-fast calorimetry. <i>Soft Matter</i> , 2012, 8, 7116.	2.7	28
106	Thermal Analysis. <i>Analytical Chemistry</i> , 2004, 76, 3299-3312.	6.5	27
107	Effect of Substituents in Aromatic Amines on the Activation Energy of Epoxy ⁺ Amine Reaction. <i>Journal of Physical Chemistry B</i> , 2007, 111, 7098-7104.	2.6	27
108	Thermal Analysis. <i>Analytical Chemistry</i> , 2010, 82, 4936-4949.	6.5	26

#	ARTICLE	IF	CITATIONS
109	High Temperature Solid-Solid Transition in Ammonium Chloride Confined to Nanopores. <i>Journal of Physical Chemistry C</i> , 2013, 117, 13713-13721.	3.1	26
110	How much is the accuracy of activation energy affected by ignoring thermal inertia?. <i>International Journal of Chemical Kinetics</i> , 2020, 52, 23-28.	1.6	26
111	Some confusion concerning integral isoconversional methods that may result from the paper by Budrugeac and Segal ?Some Methodological Problems Concerning Nonisothermal Kinetic Analysis of Heterogeneous Solid-Gas Reactions?. <i>International Journal of Chemical Kinetics</i> , 2002, 34, 418-420.	1.6	25
112	Comparative cure behavior of DGEBA and DGEBP with 4-nitro-1,2-phenylenediamine. <i>Polymer</i> , 2006, 47, 6659-6663.	3.8	25
113	Further insights into the kinetics of thermal decomposition during continuous cooling. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 18836-18844.	2.8	25
114	Kinetic and Mechanistic Insights into Thermally Initiated Polymerization of Cyanate Esters with Different Bridging Groups. <i>Macromolecular Chemistry and Physics</i> , 2019, 220, 1900141.	2.2	25
115	Concentration Effect on Temperature Dependence of Gelation Rate in Aqueous Solutions of Methylcellulose. <i>Macromolecular Chemistry and Physics</i> , 2009, 210, 211-216.	2.2	24
116	Isoconversional Kinetics of Nonisothermal Crystallization of Salts from Solutions. <i>Journal of Physical Chemistry B</i> , 2016, 120, 5703-5709.	2.6	24
117	Nonisothermal crystallization of polymers: Getting more out of kinetic analysis of differential scanning calorimetry data. <i>Polymer Crystallization</i> , 2018, 1, e10003.	0.8	24
118	Implications of Global and Local Mobility in Amorphous Sucrose and Trehalose as Determined by Differential Scanning Calorimetry. <i>Pharmaceutical Research</i> , 2009, 26, 1064-1072.	3.5	23
119	On the method of solving the inverse problem of solid-phase reaction kinetics. <i>Journal of Thermal Analysis</i> , 1990, 36, 599-615.	0.6	21
120	Invariant kinetic parameters of polymer thermolysis. III. The influence of a fire-retardant additive on polypropylene thermolysis. <i>Journal of Applied Polymer Science</i> , 1991, 42, 2095-2098.	2.6	21
121	Increase in effective activation energy during physical aging of a glass. <i>Chemical Physics Letters</i> , 2007, 448, 203-207.	2.6	21
122	Thermal Properties and Degradation Behavior of Linear and Branched Poly(L-lactide)s and Poly(L-lactide-co-glycolide)s. <i>Macromolecular Chemistry and Physics</i> , 2012, 213, 924-936.	2.2	21
123	Nucleation-Driven Kinetics of Poly(ethylene terephthalate) Melting. <i>Macromolecular Chemistry and Physics</i> , 2013, 214, 2562-2566.	2.2	21
124	Thermal Stability of Malonic Acid Dissolved in Poly(vinylpyrrolidone) and Other Polymeric Matrices. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 5228-5233.	3.7	21
125	Thermal stability of indomethacin increases with the amount of polyvinylpyrrolidone in solid dispersion. <i>Thermochimica Acta</i> , 2019, 676, 172-176.	2.7	21
126	The influence of errors of Arrhenius parameter calculation on the exactness of the solution of the direct kinetic problem. <i>Thermochimica Acta</i> , 1991, 182, 133-142.	2.7	20

#	ARTICLE	IF	CITATIONS
127	Detecting isokinetic relationships in non-isothermal systems by the isoconversional method. <i>Thermochimica Acta</i> , 1995, 269-270, 61-72.	2.7	20
128	Curing of Diglycidyl Ether of Bisphenol P with Nitro Derivatives of Amine Compounds, 2. <i>Macromolecular Chemistry and Physics</i> , 2005, 206, 1084-1089.	2.2	20
129	Polymer Melting Kinetics Appears to be Driven by Heterogeneous Nucleation. <i>Macromolecular Chemistry and Physics</i> , 2014, 215, 205-209.	2.2	20
130	Evaluation and Application of Isokinetic Relationships: The Thermal Decomposition of Solids under Nonisothermal Conditions. <i>Journal of Chemical Information and Computer Sciences</i> , 1994, 34, 1273-1278.	2.8	19
131	Phase and thermal stabilization of ammonium nitrate in the form of PVP-AN glass. <i>Materials Letters</i> , 2008, 62, 1757-1760.	2.6	19
132	Nanoconfined Solid-Solid Transitions: Attempt To Separate the Size and Surface Effects. <i>Journal of Physical Chemistry C</i> , 2015, 119, 9627-9636.	3.1	19
133	Effect of nanocrystalline cellulose addition on needleless alternating current electrospinning and properties of nanofibrous polyacrylonitrile meshes. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45772.	2.6	19
134	Polymerization kinetics of adamantane-based dicyanate ester and thermal properties of resulting polymer. <i>Reactive and Functional Polymers</i> , 2021, 165, 104956.	4.1	19
135	Curing of Diglycidyl Ether of 4,4'-Bisphenol P with Nitro Derivatives of Amine Compounds, 3. <i>Macromolecular Chemistry and Physics</i> , 2005, 206, 1840-1846.	2.2	18
136	Joint Statement of Editors of Journals Publishing Thermophysical Property Data. <i>Journal of Chemical & Engineering Data</i> , 2009, 54, 2-3.	1.9	18
137	Melting kinetics of superheated crystals of glucose and fructose. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 26056-26064.	2.8	18
138	Activation energies derived from the pre-glass transition annealing peaks. <i>Thermochimica Acta</i> , 2006, 446, 140-146.	2.7	17
139	Coil-Globule Transition of Poly(<i>N</i> -isopropylacrylamide) in Aqueous Solution: Kinetics in Bulk and Nanopores. <i>Macromolecular Chemistry and Physics</i> , 2014, 215, 2112-2118.	2.2	17
140	Effect of pressure on TATB and LX-17 thermal decomposition. <i>Thermochimica Acta</i> , 2021, 699, 178908.	2.7	17
141	Some aspects of mathematical statistics as applied to nonisothermal kinetics. <i>Journal of Thermal Analysis</i> , 1987, 32, 909-918.	0.6	16
142	Complementarity methodology as applied for solution of the inverse problem for solid-phase reaction kinetics III. <i>Journal of Thermal Analysis</i> , 1988, 34, 609-618.	0.6	16
143	Thermolysis kinetics of polypropylene on rapid heating. <i>Thermochimica Acta</i> , 1993, 215, 325-328.	2.7	16
144	Comparative Relaxation Dynamics of Glucose and Maltitol. <i>Pharmaceutical Research</i> , 2006, 23, 2158-2164.	3.5	16

#	ARTICLE	IF	CITATIONS
145	Ammonium Nitrate~Polymer Glasses: A New Concept for Phase and Thermal Stabilization of Ammonium Nitrate. <i>Journal of Physical Chemistry B</i> , 2008, 112, 11236-11243.	2.6	16
146	Venturing into kinetics and mechanism of nanoconfined solid-state reactions: trimerization of sodium dicyanamide in nanopores. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 11409.	2.8	16
147	Thermal Decomposition Kinetics of Malonic Acid in the Condensed Phase. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 7964-7970.	3.7	16
148	Solid-state polymerization of a novel cyanate ester based on 4-tert-butylcalix[6]arene. <i>Polymer Chemistry</i> , 2020, 11, 4115-4123.	3.9	16
149	Some aspects of mathematical statistics as applied to nonisothermal kinetics. <i>Journal of Thermal Analysis</i> , 1987, 32, 249-258.	0.6	15
150	Curing of Diglycidyl Ether of Bisphenol P with Nitro Derivatives of Amine Compounds, 1. <i>Macromolecular Chemistry and Physics</i> , 2005, 206, 342-348.	2.2	15
151	Gelation on Heating of Supercooled Gelatin Solutions. <i>Macromolecular Rapid Communications</i> , 2012, 33, 698-702.	3.9	15
152	Thermal Reduction of NO _x with Recycled Plastics. <i>Environmental Science & Technology</i> , 2017, 51, 7714-7722.	10.0	15
153	“Nothing Can Hide Itself from Thy Heat” Understanding Polymers via Unconventional Applications of Thermal Analysis. <i>Macromolecular Rapid Communications</i> , 2019, 40, e1800334.	3.9	15
154	Effect of Inert Gas Pressure on Reversible Solid-State Decomposition. <i>Journal of Physical Chemistry C</i> , 2019, 123, 21059-21065.	3.1	15
155	On the dependence of kinetic parameters and functions in non-isothermal kinetics. <i>Thermochimica Acta</i> , 1987, 122, 413-418.	2.7	14
156	Formation and Thermal Behavior of Polystyrene and Polystyrene/Clay Gels. <i>Macromolecular Chemistry and Physics</i> , 2008, 209, 2367-2373.	2.2	14
157	Synthesis and Polymerization Kinetics of Rigid Tricyanate Ester. <i>Polymers</i> , 2021, 13, 1686.	4.5	14
158	Illustration of the ambiguity in solving inverse kinetic problems. <i>Thermochimica Acta</i> , 1988, 130, 269-279.	2.7	13
159	Nanocrystalline Cellulose/Polyvinylpyrrolidone Fibrous Composites Prepared by Electrospinning and Thermal Crosslinking. <i>International Journal of Polymer Science</i> , 2019, 2019, 1-12.	2.7	13
160	Polymerization Kinetics of Cyanate Ester Confined to Hydrophilic Nanopores of Silica Colloidal Crystals with Different Surface-Grafted Groups. <i>Polymers</i> , 2020, 12, 2329.	4.5	13
161	Thermomechanical study of the high temperature phase transition in KH ₂ PO ₄ . <i>Solid State Communications</i> , 2000, 113, 627-631.	1.9	12
162	Melting of Gelatin Gels Containing Laponite, Montmorillonite, and Chitosan Particles. <i>Macromolecular Chemistry and Physics</i> , 2014, 215, 867-872.	2.2	12

#	ARTICLE	IF	CITATIONS
163	Some Basics En Route to Isoconversional Methodology. , 2015, , 1-25.		12
164	Isoconversional Methodology. , 2015, , 27-62.		12
165	Electronic solution to the problem of a kinetic standard for DSC measurements. Chemometrics and Intelligent Laboratory Systems, 2000, 52, 23-32.	3.5	11
166	Comments on "The use of MoO ₃ and NiO (pure or mixed) oxide catalysts in the decomposition of KMnO ₄ " by S.A. Halawy and M.A. Mohamed. Thermochemica Acta, 2001, 370, 149-154.	2.7	11
167	Evaluation of the Dynamic Response of a New Heat Flux Calorimeter for Kinetic Purposes. Industrial & Engineering Chemistry Research, 2002, 41, 6650-6655.	3.7	11
168	Melting of gelatin gels confined to silica nanopores. Physical Chemistry Chemical Physics, 2016, 18, 29056-29063.	2.8	11
169	Kinetics of Thermal Polymerization Can Be Studied during Continuous Cooling. Macromolecular Rapid Communications, 2018, 39, 1700624.	3.9	11
170	Some aspects of mathematical statistics as applied to non-isothermal kinetics. Journal of Thermal Analysis, 1986, 31, 319-324.	0.6	10
171	Non-oxidative Thermal Degradation of Poly(glycidol), Poly(glycidol)- <i>g</i> -L-lactide, and Poly(glycidol)- <i>g</i> -glycolide. Macromolecular Chemistry and Physics, 2011, 212, 2103-2113.	2.2	10
172	Synthesis and Polymerization Kinetics of Novel Dicyanate Ester Based on Dimer of 4- <i>tert</i> -butylphenol. Macromolecular Chemistry and Physics, 2021, 222, 2000410.	2.2	10
173	Solvent-induced changes in the reactivity of tricyanate esters undergoing thermal polymerization. Polymer Chemistry, 2021, 12, 6179-6187.	3.9	10
174	Interpretation of the dependence of the effective values of kinetic parameters on the degree of transformation. Thermochemica Acta, 1988, 128, 69-73.	2.7	9
175	Invariant kinetic parameters of polymer thermolysis. IV. Influence of fire-retardant additives on polypropylene thermolysis. Journal of Applied Polymer Science, 1992, 44, 2157-2160.	2.6	9
176	Dynamic Mechanical Analysis and Hydrolytic Degradation Behavior of Linear and Branched Poly(L-lactide)s and Poly(L-lactide- <i>co</i> -glycolide)s. Macromolecular Chemistry and Physics, 2013, 214, 835-843.	2.2	9
177	Isoconversional kinetics of vaporization of nanoconfined liquids. Journal of Molecular Liquids, 2021, 327, 114824.	4.9	9
178	Some aspects of mathematical statistics as applied to nonisothermal kinetics. Journal of Thermal Analysis, 1985, 30, 831-840.	0.6	8
179	Extrapolation kinetic problems solved by indiscriminating methods. Thermochemica Acta, 1993, 215, 315-324.	2.7	8
180	Detecting Mechanochemical Degradation of Nitrocellulose by Combining Dynamic Mechanical Analysis with Mass Spectrometry. Macromolecular Rapid Communications, 2005, 26, 29-33.	3.9	8

#	ARTICLE	IF	CITATIONS
181	Phase separation of triethylamine and water in native and organically modified silica nanopores. <i>Journal of Chemical Physics</i> , 2017, 147, 114508.	3.0	8
182	Complementarity methodology as applied for solution of the inverse problem of solid-phase reaction kinetics. <i>Journal of Thermal Analysis</i> , 1988, 34, 85-88.	0.6	7
183	Isokinetic relationships at the thermal decomposition of tetranuclear copper(II)-complexes. <i>International Journal of Chemical Kinetics</i> , 1995, 27, 597-604.	1.6	7
184	Mechanochemical effects in degradation of nitrocellulose and nitrocellulose–diphenylamine mixture. <i>Thermochimica Acta</i> , 2005, 437, 75-81.	2.7	7
185	Making impact in thermal sciences: Overview of highly cited papers published in <i>Thermochimica Acta</i> . <i>Thermochimica Acta</i> , 2010, 500, 1-5.	2.7	7
186	The kinetics and mechanism of nanoconfined molten salt reactions: trimerization of potassium and rubidium dicyanamide. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 10209-10217.	2.8	7
187	Power Law and Arrhenius Approaches to the Melting Kinetics of Superheated Crystals: Are They Compatible?. <i>Crystal Growth and Design</i> , 2018, 18, 6389-6392.	3.0	7
188	Accelerating Effect of Poly(vinylpyrrolidone) Matrix on Thermal Decomposition of Malonic Acid. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 2891-2898.	3.7	7
189	When can the effect of thermal inertia be considered negligible?. <i>International Journal of Chemical Kinetics</i> , 2021, 53, 1058-1060.	1.6	7
190	Problems with Applying the Ozawa–Avrami Crystallization Model to Non-Isothermal Crosslinking Polymerization. <i>Polymers</i> , 2022, 14, 693.	4.5	7
191	Novel adamantane-based dicyanate ester: Synthesis, polymerization kinetics, and thermal properties of resulting polymer. <i>Thermochimica Acta</i> , 2022, 710, 179177.	2.7	7
192	Complementarity methodology as applied for solution of the inverse problem for solid-phase reaction kinetics II. <i>Journal of Thermal Analysis</i> , 1988, 34, 239-247.	0.6	6
193	A method of comparing kinetic curves obtained under isothermal and nonisothermal conditions. <i>Thermochimica Acta</i> , 1991, 177, 259-264.	2.7	6
194	Crystallization of ionic salts for calibration of differential scanning calorimeters. <i>Thermochimica Acta</i> , 2016, 640, 62-65.	2.7	6
195	An approach to the solution of the inverse kinetic problem in the case of complex processes. <i>Thermochimica Acta</i> , 1991, 176, 49-56.	2.7	5
196	Loading salts from solutions into nanopores: Model and its test. <i>Chemical Physics Letters</i> , 2013, 558, 72-76.	2.6	5
197	Some aspects of mathematical statistics as applied to nonisothermal kinetics V. <i>Journal of Thermal Analysis</i> , 1987, 32, 1145-1150.	0.6	4
198	Gelation of Poly(Vinylidene Fluoride) Solutions in Native and Organically Modified Silica Nanopores. <i>Molecules</i> , 2018, 23, 3025.	3.8	4

#	ARTICLE	IF	CITATIONS
199	All You Need to Know about the Kinetics of Thermally Stimulated Reactions Occurring on Cooling. <i>Molecules</i> , 2019, 24, 1918.	3.8	4
200	Crystallization of ammonium perchlorate from solution confined to native and organically modified silica nanopores. <i>Thermochimica Acta</i> , 2019, 677, 109-116.	2.7	4
201	The Kinetics of Formation of Microporous Polytriazine in Diphenyl Sulfone. <i>Molecules</i> , 2022, 27, 3605.	3.8	4
202	The use of non-linear statistic methods for determination of kinetic parameters and kinetic functions choose according to thermogravimetric data. <i>Thermochimica Acta</i> , 1985, 92, 161-164.	2.7	3
203	Viscoelastic properties of crosslinked LLDPE films biaxially oriented at temperatures below melting point. <i>Journal of Applied Polymer Science</i> , 2007, 103, 3718-3723.	2.6	3
204	Physical Processes. , 2015, , 63-161.		3
205	The truncated ÅestÅjkâ€“Berggren equation is still the ÅestÅjkâ€“Berggren equation, just truncated. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 127, 1125-1126.	3.6	3
206	Hard to swallow dry: formation of linear and cyclic oligomers in the anhydrous thermal decomposition of acetylsalicylic acid. <i>Perkin Transactions II RSC</i> , 2001, , 436-437.	1.1	2
207	Chemical Processes. , 2015, , 163-231.		2
208	Is the kinetics of crosslinking polymerization the same on heating and cooling?. <i>Polymer</i> , 2019, 161, 8-15.	3.8	2
209	Nanoconfined gelation in systems based on stearic and 12-hydroxystearic acids: A calorimetric study. <i>Journal of Molecular Liquids</i> , 2021, 335, 116191.	4.9	2
210	Evaluation of activation energy of thermally stimulated solid-state reactions under arbitrary variation of temperature. , 1997, 18, 393.		2
211	Kinetic information and models used for its extraction. <i>Thermochimica Acta</i> , 1992, 200, 461-466.	2.7	1
212	Macromol. Chem. Phys. 23/2007. <i>Macromolecular Chemistry and Physics</i> , 2007, 208, 2580-2580.	2.2	1
213	Notes on workshop on kinetics/ESTAC-10, Rotterdam. <i>Journal of Thermal Analysis and Calorimetry</i> , 2011, 105, 931-931.	3.6	1
214	Dr. Joseph Henry Flynn. <i>Thermochimica Acta</i> , 2011, 523, 258-259.	2.7	1
215	Isoconversional Kinetics by Fast Scanning Calorimetry. , 2016, , 237-257.		1
216	Nanoconfined gelation of polyacrylonitrile, poly(vinyl alcohol), and isotactic polypropylene probed by calorimetry. <i>Soft Matter</i> , 2020, 16, 3285-3293.	2.7	1

#	ARTICLE	IF	CITATIONS
217	Effect of viscosity on the kinetics of initial cure stages. <i>Macromolecular Chemistry and Physics</i> , 2000, 201, 199-203.	2.2	1
218	Remarks on the transformation of dynamic DSC curves for thermosetting polymers in curing kinetic analysis. <i>Journal of Thermal Analysis</i> , 1991, 37, 1109-1110.	0.6	0