

Nobuyoshi Koga

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156
papers

5,645
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164
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6,479
ext. citations

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avg, IF

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#	Paper	IF	Citations
156	ICTAC Kinetics Committee recommendations for collecting experimental thermal analysis data for kinetic computations. <i>Thermochimica Acta</i> , 2014 , 590, 1-23	2.9	713
155	Kinetic Analysis of Solid-State Reactions: The Universality of Master Plots for Analyzing Isothermal and Nonisothermal Experiments. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 10777-10782	2.8	430
154	ICTAC Kinetics Committee recommendations for analysis of multi-step kinetics. <i>Thermochimica Acta</i> , 2020 , 689, 178597	2.9	202
153	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	2.8	187
152	Crystallization of amorphous calcium carbonate. <i>Thermochimica Acta</i> , 1998 , 318, 239-244	2.9	184
151	A review of the mutual dependence of Arrhenius parameters evaluated by the thermoanalytical study of solid-state reactions: The kinetic compensation effect. <i>Thermochimica Acta</i> , 1994 , 244, 1-20	2.9	162
150	Kinetic analysis of thermoanalytical data by extrapolating to infinite temperature. <i>Thermochimica Acta</i> , 1995 , 258, 145-159	2.9	143
149	A physico-geometric approach to the kinetics of solid-state reactions as exemplified by the thermal dehydration and decomposition of inorganic solids. <i>Thermochimica Acta</i> , 2002 , 388, 41-61	2.9	114
148	Ozawa's kinetic method for analyzing thermoanalytical curves. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013 , 113, 1527-1541	4.1	111
147	A unified theory for the kinetic analysis of solid state reactions under any thermal pathway. <i>Journal of Thermal Analysis and Calorimetry</i> , 2003 , 72, 901-906	4.1	110
146	Kinetic compensation effect as a mathematical consequence of the exponential rate constant. <i>Thermochimica Acta</i> , 1991 , 182, 201-208	2.9	102
145	Kinetic approach to partially overlapped thermal decomposition processes. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013 , 111, 1463-1474	4.1	91
144	Kinetic Analyses of Solid-State Reactions with a Particle-Size Distribution. <i>Journal of the American Ceramic Society</i> , 2005 , 81, 2901-2909	3.8	88
143	The influence of mass transfer phenomena on the kinetic analysis for the thermal decomposition of calcium carbonate by constant rate thermal analysis (CRTA) under vacuum. <i>International Journal of Chemical Kinetics</i> , 1998 , 30, 737-744	1.4	84
142	Distortion of the Arrhenius parameters by the inappropriate kinetic model function. <i>Thermochimica Acta</i> , 1991 , 188, 333-336	2.9	84
141	A kinetic compensation effect established for the thermal decomposition of a solid. <i>Journal of Thermal Analysis</i> , 1991 , 37, 347-363		62
140	Thermal Dehydration of Crystalline Hydrates: Microscopic Studies and Introductory Experiments to the Kinetics of Solid-State Reactions. <i>Journal of Chemical Education</i> , 1995 , 72, 251	2.4	60

139	Thermal Decomposition of Silver Carbonate: Phenomenology and Physicogeometrical Kinetics. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 326-336	3.8	57
138	Preparation of substituted barium ferrite BaFe ₁₂ (Ti _{0.5} Co _{0.5}) _x O ₁₉ by citrate precursor method and compositional dependence of their magnetic properties. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 313, 168-175	2.8	57
137	Further aspects of the kinetic compensation effect. <i>Journal of Thermal Analysis</i> , 1991 , 37, 1103-1108		57
136	Magnetic phase transitions in substituted barium ferrites BaFe ₁₂ (Ti _{0.5} Co _{0.5}) _x O ₁₉ (x=0B). <i>Journal of Magnetism and Magnetic Materials</i> , 2013 , 325, 36-41	2.8	53
135	Thermal dehydration of magnesium acetate tetrahydrate: formation and in situ crystallization of anhydrous glass. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 14477-86	3.4	52
134	Kinetics and mechanism of the thermal decomposition of sodium percarbonate: role of the surface product layer. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 1880-9	2.8	51
133	Thermal Decomposition of Indium(III) Hydroxide Prepared by the Microwave-Assisted Hydrothermal Method. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 4052-4058	3.8	50
132	Accommodation of the actual solid-state process in the kinetic model function. Part 2. Applicability of the empirical kinetic model function to diffusion-controlled reactions. <i>Thermochimica Acta</i> , 1996 , 282-283, 69-80	2.9	50
131	Monohydrocalcite in Comparison with Hydrated Amorphous Calcium Carbonate: Precipitation Condition and Thermal Behavior. <i>Crystal Growth and Design</i> , 2011 , 11, 3877-3884	3.5	49
130	Kinetics of the thermal dehydration of potassium copper(II) chloride dihydrate. <i>The Journal of Physical Chemistry</i> , 1988 , 92, 7023-7029		48
129	Thermal Decomposition of Silver Acetate: Physico-Geometrical Kinetic Features and Formation of Silver Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 8841-8854	3.8	48
128	Thermal dehydration of monohydrocalcite: overall kinetics and physico-geometrical mechanisms. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 10491-501	2.8	47
127	Kinetic and Morphological Studies of the Thermal Dehydration of .alpha.-Nickel(II) Sulfate Hexahydrate. <i>The Journal of Physical Chemistry</i> , 1994 , 98, 10521-10528		47
126	A kinetic and microscopic investigation of the thermal dehydration of lithium sulphate monohydrate. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1990 , 86, 531		47
125	Kinetics and mechanisms of the thermal dehydration of dilithium sulfate monohydrate. <i>The Journal of Physical Chemistry</i> , 1989 , 93, 7793-7798		46
124	Kinetic analysis of overlapping multistep thermal decomposition comprising exothermic and endothermic processes: thermolysis of ammonium dinitramide. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 3254-3264	3.6	45
123	Aragonite Crystal Growth and Solid-State Aragonite \rightarrow calcite Transformation: A Physico-Geometrical Relationship via Thermal Dehydration of Included Water. <i>Crystal Growth and Design</i> , 2013 , 13, 2238-2246	3.5	45
122	Accommodation of the actual solid-state process in the kinetic model function. <i>Journal of Thermal Analysis</i> , 1994 , 41, 455-469		43

121	Effect of sample mass on the kinetics of thermal decomposition of a solid. <i>Thermochimica Acta</i> , 1992 , 209, 127-134	2.9	41
120	Self-cooling effect on the kinetics of nonisothermal dehydration of lithium sulfate monohydrate. <i>Journal of Thermal Analysis</i> , 1990 , 36, 2601-2610		41
119	Thermal Decomposition of Tin(II) Oxyhydroxide and Subsequent Oxidation in Air: Kinetic Deconvolution of Overlapping Heterogeneous Processes. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 16188-16199	3.8	40
118	Kinetic modeling for thermal dehydration of ferrous oxalate dihydrate polymorphs: a combined model for induction period-surface reaction-phase boundary reaction. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 2401-12	2.8	40
117	Thermal behaviors of amorphous calcium carbonates prepared in aqueous and ethanol media. <i>Journal of Thermal Analysis and Calorimetry</i> , 2008 , 94, 379-387	4.1	37
116	Thermal degradation of poly(lactic acid) oligomer: Reaction mechanism and multistep kinetic behavior. <i>Polymer Degradation and Stability</i> , 2016 , 134, 284-295	4.7	35
115	Effect of sample mass on the kinetics of thermal decomposition of a solid. Part 3. Non-isothermal mass-loss process of molten NH ₄ NO ₃ . <i>Thermochimica Acta</i> , 1994 , 240, 141-151	2.9	35
114	Kinetics of crystallization in the soda-lime-silica system. <i>Thermochimica Acta</i> , 1992 , 203, 361-372	2.9	35
113	Kinetic Analysis of the Thermal Decomposition of Synthetic Malachite by CRTA. <i>Magyar Áprilad Kémiakönyvek</i> , 2000 , 60, 943-954	0	34
112	Physico-Geometrical Mechanism and Overall Kinetics of Thermally Induced Oxidative Decomposition of Tin(II) Oxalate in Air: Formation Process of Microstructural Tin(IV) Oxide. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 17847-17861	3.8	32
111	Phenomenological Kinetics of the Carbonation Reaction of Lithium Hydroxide Monohydrate: Role of Surface Product Layer and Possible Existence of a Liquid Phase. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 5424-5436	3.8	31
110	Thermoanalytical kinetics for solid state reactions as exemplified by the thermal dehydration of Li ₂ SO ₄ · H ₂ O. <i>Thermochimica Acta</i> , 1992 , 203, 203-220	2.9	31
109	Effect of sample mass on the kinetics of thermal decomposition of a solid. <i>Journal of Thermal Analysis</i> , 1993 , 40, 1173-1179		31
108	Thermal decomposition of copper(II) and zinc carbonate hydroxides by means of TG-MS. <i>Journal of Thermal Analysis and Calorimetry</i> , 2005 , 82, 725-729	4.1	30
107	Phenomenological Interpretation of the Multistep Thermal Decomposition of Silver Carbonate To Form Silver Metal. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 8059-8070	3.8	29
106	Phenomenological kinetics of the thermal decomposition of sodium hydrogencarbonate. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 14417-29	2.8	29
105	Apparent kinetic behavior of the thermal decomposition of synthetic malachite. <i>Thermochimica Acta</i> , 1999 , 340-341, 387-394	2.9	29
104	Critical Appraisal of Kinetic Calculation Methods Applied to Overlapping Multistep Reactions. <i>Molecules</i> , 2019 , 24,	4.8	28

103	Multistep kinetic behavior in the thermal degradation of poly(L-lactic acid): a physico-geometrical kinetic interpretation. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 11397-405	3.4	28
102	Crystal Nucleation and Growth in Lithium Diborate Glass by Thermal Analysis. <i>Journal of the American Ceramic Society</i> , 2004 , 83, 1753-1760	3.8	28
101	Exothermic Behavior of Thermal Decomposition of Sodium Percarbonate: Kinetic Deconvolution of Successive Endothermic and Exothermic Processes. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 9761-9	2.8	27
100	Kinetics of the thermal decomposition of sodium hydrogencarbonate evaluated by controlled rate evolved gas analysis coupled with thermogravimetry. <i>Thermochimica Acta</i> , 2005 , 431, 38-43	2.9	27
99	Influences of product gases on the kinetics of thermal decomposition of synthetic malachite evaluated by controlled rate evolved gas analysis coupled with thermogravimetry. <i>International Journal of Chemical Kinetics</i> , 2005 , 37, 346-354	1.4	27
98	Kinetic compensation effect between the isothermal and non-isothermal decomposition of solids. <i>Journal of Thermal Analysis</i> , 1988 , 34, 685-691		27
97	Impact of atmospheric water vapor on the thermal decomposition of calcium hydroxide: a universal kinetic approach to a physico-geometrical consecutive reaction in solid-gas systems under different partial pressures of product gas. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 11615-11632	3.6	26
96	Thermal decomposition of synthetic antlerite prepared by microwave-assisted hydrothermal method. <i>Thermochimica Acta</i> , 2008 , 467, 11-19	2.9	25
95	Multistep Kinetic Behavior of the Thermal Decomposition of Granular Sodium Percarbonate: Hindrance Effect of the Outer Surface Layer. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 9749-60	2.8	24
94	Thermal Decomposition of Biomineralized Calcium Carbonate: Correlation between the Thermal Behavior and Structural Characteristics of Avian Eggshell. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 5283-5295	8.3	23
93	The thermal decomposition of basic copper(II) sulfate: An undergraduate thermal analysis experiment. <i>Journal of Chemical Education</i> , 1990 , 67, 612	2.4	23
92	Kinetics of thermal decomposition of MCO ₃ to MO (M=Ca, Sr and Ba). <i>Journal of Thermal Analysis</i> , 1988 , 34, 177-188		23
91	Formation and transformation kinetics of amorphous iron(III) oxide during the thermally induced transformation of ferrous oxalate dihydrate in air. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 141-51	2.8	21
90	Thermogravimetry of basic copper(II) sulphates obtained by titrating NaOH solution with CuSO ₄ solution. <i>Thermochimica Acta</i> , 1991 , 182, 281-292	2.9	21
89	Problems of YBa ₂ Cu ₃ O _x formation and decomposition kinetics and mechanism. <i>Thermochimica Acta</i> , 1992 , 203, 321-337	2.9	21
88	Mutual Relationship between Solid-State Aragonite↔Calcite Transformation and Thermal Dehydration of Included Water in Coral Aragonite. <i>Crystal Growth and Design</i> , 2014 , 14, 879-887	3.5	20
87	Physico-Geometrical Kinetics of Solid-State Reactions in an Undergraduate Thermal Analysis Laboratory. <i>Journal of Chemical Education</i> , 2014 , 91, 239-245	2.4	20
86	Significance of kinetic compensation effect in the thermal decomposition of a solid. <i>Thermochimica Acta</i> , 1988 , 135, 79-84	2.9	20

85	Thermally induced carbonation of Ca(OH) in a CO atmosphere: kinetic simulation of overlapping mass-loss and mass-gain processes in a solid-gas system. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 26173-26189	3.6	20
84	Influences of evolved gases on the thermal decomposition of zinc carbonate hydroxide evaluated by controlled rate evolved gas analysis coupled With TG. <i>Journal of Thermal Analysis and Calorimetry</i> , 2009 , 95, 489-493	4.1	18
83	Thermally induced transformations of calcium carbonate polymorphs precipitated selectively in ethanol/water solutions. <i>Thermochimica Acta</i> , 2011 , 512, 13-21	2.9	18
82	Kinetic study of the thermal dehydration of copper (II) acetate monohydrate I. Single crystal material. <i>Solid State Ionics</i> , 1990 , 44, 1-9	3.3	18
81	Preparation and thermal decomposition of basic copper(II) sulfates. <i>Thermochimica Acta</i> , 1988 , 133, 221-226	2.9	18
80	Physico-Geometrical Kinetic Modeling of the Thermal Decomposition of Magnesium Hydroxide. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 2458-2471	3.8	18
79	Kinetics and Mechanisms of the Thermal Decomposition of Copper(II) Hydroxide: A Consecutive Process Comprising Induction Period, Surface Reaction, and Phase Boundary-Controlled Reaction. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 12869-12879	3.8	18
78	Effect of mechanical grinding on the reaction pathway and kinetics of the thermal decomposition of hydromagnesite. <i>Journal of Thermal Analysis and Calorimetry</i> , 2008 , 93, 963-971	4.1	17
77	Conventional kinetic analysis of the thermogravimetric curves for the thermal decomposition of a solid. <i>Thermochimica Acta</i> , 1991 , 183, 125-136	2.9	17
76	Universal Kinetic Description for Thermal Decomposition of Copper(II) Hydroxide over Different Water Vapor Pressures. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 20903-20915	3.8	16
75	Energy Diagram for the Catalytic Decomposition of Hydrogen Peroxide. <i>Journal of Chemical Education</i> , 2013 , 90, 633-636	2.4	16
74	New assembled Fe-trans-1,2-bis(4-pyridyl)ethylene-NCS(NCSe) complexes [hydrogen bonded and π -interacted structure and grid structure enclathrating ligand. <i>Inorganica Chimica Acta</i> , 2005 , 358, 257-264	2.7	16
73	Kinetic characterization of multistep thermal oxidation of carbon/carbon composite in flowing air. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017 , 128, 891-906	4.1	15
72	Chemical Composition of Sodium Percarbonate: An Inquiry-Based Laboratory Exercise. <i>Journal of Chemical Education</i> , 2013 , 90, 1048-1052	2.4	15
71	Thermal dehydration of lithium metaborate dihydrate and phase transitions of anhydrous product. <i>Thermochimica Acta</i> , 2006 , 443, 197-205	2.9	15
70	A Kinetic Aspect of the Thermal Dehydration of Dilithium Tetraborate Trihydrate. <i>Magyar Árvad Kélemlayek</i> , 2002 , 67, 153-161	0	15
69	Permeability and permittivity spectra of substituted barium Ferrites BaFe ₁₂ (Ti _{0.5} Co _{0.5}) _x O ₁₉ (x=0 to 5). <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 399, 64-71	2.8	14
68	The Ozawa generalized time concept and YZ-master plots as a convenient tool for kinetic analysis of complex processes. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013 , 113, 1437-1446	4.1	14

67	Kinetics and mechanism of the isothermal dehydration of zinc acetate dihydrate. <i>Thermochimica Acta</i> , 1997 , 303, 69-76	2.9	14
66	Magnetic Temperature Standards for TG. <i>Journal of Thermal Analysis and Calorimetry</i> , 2003 , 72, 1109-1114	4.1	14
65	A kinetic study of the thermal decomposition of iron(III) hydroxide oxides. Part 1. β -FeO(OH) in banded iron formations. <i>Thermochimica Acta</i> , 1995 , 254, 193-207	2.9	14
64	Kinetics of the thermal decompositions of MC_2O_4 to MCO_3 (M=Ca, Sr AND Ba). <i>Journal of Thermal Analysis</i> , 1987 , 32, 1521-1529		14
63	Experimental study and kinetic analysis on sodium oxide-silica reaction. <i>Journal of Nuclear Science and Technology</i> , 2016 , 53, 682-691	1	13
62	Effect of Atmospheric Water Vapor on the Thermally Induced Crystallization in Zirconia Gel. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 557-564	3.8	13
61	Preparation and Thermal Decomposition of Synthetic Bayerite. <i>Magyar Árvad Kémények</i> , 2001 , 64, 965-972	0	13
60	A kinetic study of the thermal decomposition of iron(III) hydroxide-oxides Part 2. Preparation and thermal decomposition of β -FeO(OH). <i>Thermochimica Acta</i> , 1995 , 267, 195-208	2.9	13
59	Kinetic analysis of the nonisothermal dehydration of lithium sulfate monohydrate. <i>Thermochimica Acta</i> , 1991 , 185, 135-140	2.9	13
58	Thermal Dehydration of Lithium Sulfate Monohydrate Revisited with Universal Kinetic Description over Different Temperatures and Atmospheric Water Vapor Pressures. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 11960-11976	3.8	13
57	Physico-Geometric Approach to the Kinetics of Overlapping Solid-State Reactions. <i>Handbook of Thermal Analysis and Calorimetry</i> , 2018 , 213-251		12
56	Kinetic study on liquid sodium-silica reaction for safety assessment of sodium-cooled fast reactor. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015 , 121, 45-55	4.1	12
55	Effect of atmospheric water vapor on the kinetics of thermal decomposition of copper(II) carbonate hydroxide. <i>Journal of Thermal Analysis and Calorimetry</i> , 2009 , 95, 483-487	4.1	12
54	A comparative study of the effects of decomposition rate control and mechanical grinding on the thermal decomposition of aluminum hydroxide. <i>Journal of Thermal Analysis and Calorimetry</i> , 2005 , 81, 595-601	4.1	12
53	Factors affecting the experimentally resolved shapes of TG curves. <i>Journal of Thermal Analysis</i> , 1992 , 38, 575-582		12
52	Kinetics of nonisothermal dehydration of crushed crystals of potassium copper(II) chloride dihydrate. <i>Thermochimica Acta</i> , 1990 , 163, 295-302	2.9	12
51	Revealing the effect of water vapor pressure on the kinetics of thermal decomposition of magnesium hydroxide. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 13637-13649	3.6	11
50	Multistep thermal decomposition of granular sodium perborate tetrahydrate: a kinetic approach to complex reactions in solid-gas systems. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 12557-12573	3.6	11

49	Controlled rate thermal decomposition of synthetic bayerite under vacuum. <i>Solid State Ionics</i> , 2004 , 172, 253-256	3.3	11
48	On the fractional conversion in the kinetic description of solid-state reactions. <i>Journal of Thermal Analysis</i> , 1992 , 38, 2553-2557		11
47	Reactivity of Household Oxygen Bleaches: A Stepwise Laboratory Exercise in High School Chemistry Course. <i>Journal of Chemical Education</i> , 2016 , 93, 1415-1421	2.4	11
46	Sample Controlled Thermal Analysis (SCTA) as a Promising Tool for Kinetic Characterization of Solid-State Reaction and Controlled Material Synthesis. <i>Hot Topics in Thermal Analysis and Calorimetry</i> , 2017 , 11-43		10
45	Heterogeneous Kinetic Features of the Overlapping Thermal Dehydration and Melting of Thermal Energy Storage Material: Sodium Thiosulfate Pentahydrate. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 8480-8490	3.8	10
44	Catalytic Action of Atmospheric Water Vapor on the Thermal Decomposition of Synthetic Hydrozincite. <i>Transactions of the Materials Research Society of Japan</i> , 2009 , 34, 343-346	0.2	10
43	Thermal dehydration of dipotassium tetraborate tetrahydrate and crystallization of amorphous dehydration product. <i>Journal of Thermal Analysis and Calorimetry</i> , 2005 , 80, 71-75	4.1	10
42	Kinetic Modeling of Advanced Inorganic Glass-ceramics Formation by Crystal Growth From Pre-existing Nuclei. <i>Magyar Árvad Kélembnyek</i> , 2000 , 60, 667-674	0	10
41	Polarizing microscopy for examining mechanisms of the decomposition of single crystal materials. <i>Thermochimica Acta</i> , 1988 , 133, 227-232	2.9	10
40	Thermal behavior of perlite concrete used in a sodium-cooled fast reactor. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 138, 983-996	4.1	9
39	Neutralization and Acid Dissociation of Hydrogen Carbonate Ion: A Thermochemical Approach. <i>Journal of Chemical Education</i> , 2013 , 90, 637-641	2.4	9
38	Laboratory Inquiry for Determining the Chemical Composition of a Component in a Daily Use Detergent: Sodium Sesquicarbonate. <i>Journal of Chemical Education</i> , 2011 , 88, 1309-1313	2.4	9
37	A kinetic study of the thermal decomposition of iron(III) oxide-hydroxides. Part 3. Shape control and thermal decomposition of FeO(OH). <i>Thermochimica Acta</i> , 1996 , 282-283, 81-90	2.9	9
36	Kinetic study of the thermal dehydration of copper(II) acetate monohydrate. <i>Thermochimica Acta</i> , 1990 , 173, 53-62	2.9	9
35	Kinetic study of the dehydration of sodium citrate dihydrate. <i>Reactivity of Solids</i> , 1986 , 2, 169-175		9
34	Model Experiment of Thermal Runaway Reactions Using the AluminumHydrochloric Acid Reaction. <i>Journal of Chemical Education</i> , 2016 , 93, 1261-1266	2.4	9
33	Comparative study on the thermal behavior of structural concretes of sodium-cooled fast reactor. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 137, 1211-1224	4.1	8
32	The kinetics of the isothermal dehydration of lithium sulfate monohydrate under a self-generated temperature condition. <i>Thermochimica Acta</i> , 1993 , 224, 141-149	2.9	8

31	Thermal behavior of sodium hydroxide structural concrete composition of sodium-cooled fast reactor. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018 , 131, 301-308	4.1	7
30	Thermal Decomposition of Maya Blue: Extraction of Indigo Thermal Decomposition Steps from a Multistep Heterogeneous Reaction Using a Kinetic Deconvolution Analysis. <i>Molecules</i> , 2019 , 24,	4.8	7
29	Thermoanalytical and microscopic investigations of the thermal dehydration of Nickel (II) sulphate hexahydrate. <i>Journal of Thermal Analysis</i> , 1993 , 40, 1165-1172		7
28	Kinetic approach to multistep thermal behavior of Ag ₂ CO ₃ /graphite mixtures: Possible formation of intermediate solids with Ag ₂ O/Ag and Ag ₂ CO ₃ /Ag core/shell structures. <i>Thermochimica Acta</i> , 2016 , 644, 50-60	2.9	6
27	Kinetics of contracting geometry-type reactions in the solid state: implications from the thermally induced transformation processes of Oxalic acid dihydrate. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 19560-19572	3.6	6
26	Universal Kinetics of the Thermal Decomposition of Synthetic Smithsonite over Different Atmospheric Conditions. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 1384-1402	3.8	6
25	Stepwise Inquiry into Hard Water in a High School Chemistry Laboratory. <i>Journal of Chemical Education</i> , 2016 , 93, 1923-1928	2.4	5
24	Some Fundamental and Historical Aspects of Phenomenological Kinetics in the Solid State Studied by Thermal Analysis. <i>Hot Topics in Thermal Analysis and Calorimetry</i> , 2012 , 1-28		5
23	Using a Laboratory Inquiry with High School Students To Determine the Reaction Stoichiometry of Neutralization by a Thermochemical Approach. <i>Journal of Chemical Education</i> , 2015 , 92, 1526-1530	2.4	4
22	A Simple Oxygen Detector Using Zinc-Air Battery. <i>Journal of Chemical Education</i> , 2014 , 91, 297-299	2.4	4
21	Thermal dehydration of calcium sulfate dihydrate: physico-geometrical kinetic modeling and the influence of self-generated water vapor. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 22436-22450	3.6	4
20	Stepwise Approach to Hess's Law Using Household Desiccants: A Laboratory Learning Program for High School Chemistry Courses. <i>Journal of Chemical Education</i> , 2020 , 97, 166-171	2.4	3
19	Apparent autocatalysis due to liquefaction: thermal decomposition of ammonium 3,4,5-trinitropropylate. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 11797-11806	3.6	3
18	Kinetic analysis of the multistep thermal decomposition of Maya Blue-type pigments to evaluate thermal stability. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 142, 1073-1085	4.1	2
17	Effects of Particle Size on the Kinetics of Physico-geometrical Consecutive Reactions in Solid-Gas Systems: Thermal Decomposition of Potassium Hydrogen Carbonate. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 22023-22035	3.8	2
16	Physico-Geometrical Interpretation of the Kinetic Behavior of the Thermal Dehydration of Maltose Monohydrate. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 17828-17836	3.9	2
15	Influence of atmospheric CO ₂ on the thermal decomposition of perlite concrete. <i>Journal of Thermal Analysis and Calorimetry</i> , 2011 , 105, 111-116	4.1	2
14	Thermal decomposition of perlite concrete under different water vapor pressures. <i>Journal of Thermal Analysis and Calorimetry</i> , 2011 , 105, 117-122	4.1	2

13	Characterization of Carbon/Carbon Composites by Kinetic Deconvolution Analysis for a Thermal Oxidation Process: An Examination Using a Series of Mechanical Pencil Leads. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 14460-14469	3.9	2
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