Nobuyoshi Koga

List of Publications by Year
in descending order

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159 papers	7,259 citations	71061 41 h-index	64755 79 g-index
164 all docs	164 docs citations	164 times ranked	4390 citing authors

#	Article	IF	Citations
1	ICTAC Kinetics Committee recommendations for collecting experimental thermal analysis data for kinetic computations. Thermochimica Acta, 2014, 590, 1-23.	1.2	929
2	Kinetic Analysis of Solid-State Reactions:Â The Universality of Master Plots for Analyzing Isothermal and Nonisothermal Experiments. Journal of Physical Chemistry A, 2000, 104, 10777-10782.	1.1	519
3	ICTAC Kinetics Committee recommendations for analysis of multi-step kinetics. Thermochimica Acta, 2020, 689, 178597.	1.2	482
4	Improvement of Quality in Publication of Experimental Thermophysical Property Data: Challenges, Assessment Tools, Global Implementation, and Online Support. Journal of Chemical & Engineering Data, 2013, 58, 2699-2716.	1.0	236
5	Crystallization of amorphous calcium carbonate. Thermochimica Acta, 1998, 318, 239-244.	1.2	211
6	A review of the mutual dependence of Arrhenius parameters evaluated by the thermoanalytical study of solid-state reactions: The kinetic compensation effect. Thermochimica Acta, 1994, 244, 1-20.	1.2	204
7	Kinetic analysis of thermoanalytical data by extrapolating to infinite temperature. Thermochimica Acta, 1995, 258, 145-159.	1.2	161
8	Ozawaâ€™s kinetic method for analyzing thermoanalytical curves. Journal of Thermal Analysis and Calorimetry, 2013, 113, 1527-1541.	2.0	151
9	A unified theory for the kinetic analysis of solid state reactions under any thermal pathway. Journal of Thermal Analysis and Calorimetry, 2003, 72, 901-906.	2.0	130
10	A physico-geometric approach to the kinetics of solid-state reactions as exemplified by the thermal dehydration and decomposition of inorganic solids. Thermochimica Acta, 2002, 388, 41-61.	1.2	127
11	Kinetic compensation effect as a mathematical consequence of the exponential rate constant. Thermochimica Acta, 1991, 182, 201-208.	1.2	117
12	Kinetic approach to partially overlapped thermal decomposition processes. Journal of Thermal Analysis and Calorimetry, 2013, 111, 1463-1474.	2.0	113
13	Kinetic Analyses of Solidâ€State Reactions with a Particleâ€Size Distribution. Journal of the American Ceramic Society, 1998, 81, 2901-2909.	1.9	108
14	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. International Journal of Chemical Kinetics, 1998, 30, 737-744.	1.0	93
15	Distortion of the Arrhenius parameters by the inappropriate kinetic model function. Thermochimica Acta, 1991, 188, 333-336.	1.2	92
16	A kinetic compensation effect established for the thermal decomposition of a solid. Journal of Thermal Analysis, 1991, 37, 347-363.	0.7	74
17	Thermal Dehydration of Crystalline Hydrates: Microscopic Studies and Introductory Experiments to the Kinetics of Solid-State Reactions. Journal of Chemical Education, 1995, 72, 251.	1.1	70
18	Further aspects of the kinetic compensation effect. Journal of Thermal Analysis, 1991, 37, 1103-1108.	0.7	67

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19	Critical Appraisal of Kinetic Calculation Methods Applied to Overlapping Multistep Reactions. Molecules, 2019, 24, 2298.	1.7	65
20	Thermal Decomposition of Silver Carbonate: Phenomenology and Physicogeometrical Kinetics. Journal of Physical Chemistry C, 2013, 117, 326-336.	1.5	64
21	Thermal Decomposition of Silver Acetate: Physico-Geometrical Kinetic Features and Formation of Silver Nanoparticles. Journal of Physical Chemistry C, 2016, 120, 8841-8854.	1.5	63
22	Preparation of substituted barium ferrite BaFe12â^'x(Ti0.5Co0.5)xO19 by citrate precursor method and compositional dependence of their magnetic properties. Journal of Magnetism and Magnetic Materials, 2007, 313, 168-175.	1.0	62
23	Kinetic analysis of overlapping multistep thermal decomposition comprising exothermic and endothermic processes: thermolysis of ammonium dinitramide. Physical Chemistry Chemical Physics, 2017, 19, 3254-3264.	1.3	59
24	Kinetics and mechanisms of the thermal dehydration of dilithium sulfate monohydrate. The Journal of Physical Chemistry, 1989, 93, 7793-7798.	2.9	58
25	Monohydrocalcite in Comparison with Hydrated Amorphous Calcium Carbonate: Precipitation Condition and Thermal Behavior. Crystal Growth and Design, 2011, 11, 3877-3884.	1.4	58
26	Kinetics of the thermal dehydration of potassium copper(II) chloride dihydrate. The Journal of Physical Chemistry, 1988, 92, 7023-7029.	2.9	57
27	A kinetic and microscopic investigation of the thermal dehydration of lithium sulphate monohydrate. Journal of the Chemical Society, Faraday Transactions, 1990, 86, 531.	1.7	57
28	Thermal Decomposition of Indium(III) Hydroxide Prepared by the Microwaveâ€Assisted Hydrothermal Method. Journal of the American Ceramic Society, 2008, 91, 4052-4058.	1.9	57
29	Thermal Dehydration of Monohydrocalcite: Overall Kinetics and Physico-geometrical Mechanisms. Journal of Physical Chemistry A, 2011, 115, 10491-10501.	1.1	57
30	Kinetics and Mechanism of the Thermal Decomposition of Sodium Percarbonate: Role of the Surface Product Layer. Journal of Physical Chemistry A, 2013, 117, 1880-1889.	1.1	57
31	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. Thermochimica Acta, 1996, 282-283, 69-80.	1.2	56
32	Thermal Dehydration of Magnesium Acetate Tetrahydrate: Formation and in Situ Crystallization of Anhydrous Glass. Journal of Physical Chemistry B, 2012, 116, 14477-14486.	1.2	55
33	Magnetic phase transitions in substituted barium ferrites BaFe12â^'x(Ti0.5Co0.5)xO19 (x=0â€“5). Journal of Magnetism and Magnetic Materials, 2013, 325, 36-41.	1.0	55
34	Kinetic Modeling for Thermal Dehydration of Ferrous Oxalate Dihydrate Polymorphs: A Combined Model for Induction Periodâ€“Surface Reactionâ€“Phase Boundary Reaction. Journal of Physical Chemistry A, 2014, 118, 2401-2412.	1.1	54
35	Kinetic and Morphological Studies of the Thermal Dehydration of .alpha.-Nickel(II) Sulfate Hexahydrate. The Journal of Physical Chemistry, 1994, 98, 10521-10528.	2.9	53
36	Accommodation of the actual solid-state process in the kinetic model function. Journal of Thermal Analysis, 1994, 41, 455-469.	0.7	51

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37	Aragonite Crystal Growth and Solid-State Aragoniteâ€“Calcite Transformation: A Physicoâ€“Geometrical Relationship via Thermal Dehydration of Included Water. Crystal Growth and Design, 2013, 13, 2238-2246.	1.4	50
38	Self-cooling effect on the kinetics of nonisothermal dehydration of lithium sulfate monohydrate. Journal of Thermal Analysis, 1990, 36, 2601-2610.	0.7	49
39	Effect of sample mass on the kinetics of thermal decomposition of a solid. Thermochimica Acta, 1992, 209, 127-134.	1.2	48
40	Thermal Decomposition of Tin(II) Oxyhydroxide and Subsequent Oxidation in Air: Kinetic Deconvolution of Overlapping Heterogeneous Processes. Journal of Physical Chemistry C, 2015, 119, 16188-16199.	1.5	48
41	Effect of sample mass on the kinetics of thermal decomposition of a solid. Part 3. Non-isothermal mass-loss process of molten NH4NO3. Thermochimica Acta, 1994, 240, 141-151.	1.2	45
42	Thermal behaviors of amorphous calcium carbonates prepared in aqueous and ethanol media. Journal of Thermal Analysis and Calorimetry, 2008, 94, 379-387.	2.0	42
43	Effect of sample mass on the kinetics of thermal decomposition of a solid. Journal of Thermal Analysis, 1993, 40, 1173-1179.	0.7	40
44	Kinetics of crystallization in the soda-lime-silica system. Thermochimica Acta, 1992, 203, 361-372.	1.2	38
45	Phenomenological Kinetics of the Carbonation Reaction of Lithium Hydroxide Monohydrate: Role of Surface Product Layer and Possible Existence of a Liquid Phase. Journal of Physical Chemistry C, 2014, 118, 5424-5436.	1.5	38
46	Thermal degradation of poly(lactic acid) oligomer: Reaction mechanism and multistep kinetic behavior. Polymer Degradation and Stability, 2016, 134, 284-295.	2.7	38
47	Thermal Decomposition of Biomineralized Calcium Carbonate: Correlation between the Thermal Behavior and Structural Characteristics of Avian Eggshell. ACS Sustainable Chemistry and Engineering, 2018, 6, 5283-5295.	3.2	38
48	Impact of atmospheric water vapor on the thermal decomposition of calcium hydroxide: a universal kinetic approach to a physico-geometrical consecutive reaction in solidâ€“gas systems under different partial pressures of product gas. Physical Chemistry Chemical Physics, 2019, 21, 11615-11632.	1.3	38
49	Kinetic Analysis of the Thermal Decomposition of Synthetic Malachite by CRTA. Magyar AprÃ³vad KÃ¶zlemÃ©nyek, 2000, 60, 943-954.	1.4	37
50	Apparent kinetic behavior of the thermal decomposition of synthetic malachite. Thermochimica Acta, 1999, 340-341, 387-394.	1.2	36
51	Thermal decomposition of copper(II) and zinc carbonate hydroxides by means of TG-MS. Journal of Thermal Analysis and Calorimetry, 2005, 82, 725-729.	2.0	35
52	Phenomenological Interpretation of the Multistep Thermal Decomposition of Silver Carbonate To Form Silver Metal. Journal of Physical Chemistry C, 2014, 118, 8059-8070.	1.5	35
53	Thermoanalytical kinetics for solid state reactions as exemplified by the thermal dehydration of Li2SO4 Â· H2O. Thermochimica Acta, 1992, 203, 203-220.	1.2	34
54	Physico-Geometrical Mechanism and Overall Kinetics of Thermally Induced Oxidative Decomposition of Tin(II) Oxalate in Air: Formation Process of Microstructural Tin(IV) Oxide. Journal of Physical Chemistry C, 2014, 118, 17847-17861.	1.5	34

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55	Multistep Kinetic Behavior in the Thermal Degradation of Poly(<scp>l</scp>-Lactic Acid): A Physico-Geometrical Kinetic Interpretation. Journal of Physical Chemistry B, 2014, 118, 11397-11405.	1.2	33
56	Influences of product gases on the kinetics of thermal decomposition of synthetic malachite evaluated by controlled rate evolved gas analysis coupled with thermogravimetry. International Journal of Chemical Kinetics, 2005, 37, 346-354.	1.0	32
57	Multistep Kinetic Behavior of the Thermal Decomposition of Granular Sodium Percarbonate: Hindrance Effect of the Outer Surface Layer. Journal of Physical Chemistry A, 2015, 119, 9749-9760.	1.1	32
58	Thermally induced carbonation of Ca(OH)₂ in a CO₂ atmosphere: kinetic simulation of overlapping mass-loss and mass-gain processes in a solidâ€“gas system. Physical Chemistry Chemical Physics, 2018, 20, 26173-26189.	1.3	32
59	Revealing the effect of water vapor pressure on the kinetics of thermal decomposition of magnesium hydroxide. Physical Chemistry Chemical Physics, 2020, 22, 13637-13649.	1.3	32
60	Kinetics of the thermal decomposition of sodium hydrogencarbonate evaluated by controlled rate evolved gas analysis coupled with thermogravimetry. Thermochimica Acta, 2005, 431, 38-43.	1.2	31
61	Kinetic compensation effect between the isothermal and non-isothermal decomposition of solids. Journal of Thermal Analysis, 1988, 34, 685-691.	0.7	30
62	Crystal Nucleation and Growth in Lithium Diborate Glass by Thermal Analysis. Journal of the American Ceramic Society, 2000, 83, 1753-1760.	1.9	30
63	Thermal decomposition of synthetic antlerite prepared by microwave-assisted hydrothermal method. Thermochimica Acta, 2008, 467, 11-19.	1.2	30
64	Phenomenological Kinetics of the Thermal Decomposition of Sodium Hydrogencarbonate. Journal of Physical Chemistry A, 2011, 115, 14417-14429.	1.1	30
65	Exothermic Behavior of Thermal Decomposition of Sodium Percarbonate: Kinetic Deconvolution of Successive Endothermic and Exothermic Processes. Journal of Physical Chemistry A, 2015, 119, 9761-9769.	1.1	30
66	Kinetics and Mechanisms of the Thermal Decomposition of Copper(II) Hydroxide: A Consecutive Process Comprising Induction Period, Surface Reaction, and Phase Boundary-Controlled Reaction. Journal of Physical Chemistry C, 2018, 122, 12869-12879.	1.5	30
67	Universal Kinetic Description for Thermal Decomposition of Copper(II) Hydroxide over Different Water Vapor Pressures. Journal of Physical Chemistry C, 2019, 123, 20903-20915.	1.5	30
68	Kinetics of thermal decomposition of MCO3 to MO (M=Ca, Sr and Ba). Journal of Thermal Analysis, 1988, 34, 177-188.	0.7	28
69	Physico-Geometrical Kinetic Modeling of the Thermal Decomposition of Magnesium Hydroxide. Journal of Physical Chemistry C, 2020, 124, 2458-2471.	1.5	28
70	The thermal decomposition of basic copper(II) sulfate: An undergraduate thermal analysis experiment. Journal of Chemical Education, 1990, 67, 612.	1.1	27
71	Formation and Transformation Kinetics of Amorphous Iron(III) Oxide during the Thermally Induced Transformation of Ferrous Oxalate Dihydrate in Air. Journal of Physical Chemistry A, 2011, 115, 141-151.	1.1	27
72	Mutual Relationship between Solid-State Aragoniteâ€“Calcite Transformation and Thermal Dehydration of Included Water in Coral Aragonite. Crystal Growth and Design, 2014, 14, 879-887.	1.4	27

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73	Physico-Geometric Approach to the Kinetics of Overlapping Solid-State Reactions. Handbook of Thermal Analysis and Calorimetry, 2018, , 213-251.	1.6	27
74	Problems of YBa2Cu3Ox formation and decomposition kinetics and mechanism. Thermochimica Acta, 1992, 203, 321-337.	1.2	25
75	Physico-Geometrical Kinetics of Solid-State Reactions in an Undergraduate Thermal Analysis Laboratory. Journal of Chemical Education, 2014, 91, 239-245.	1.1	25
76	Thermogravimetry of basic copper(II) sulphates obtained by titrating NaOH solution with CuSO4 solution. Thermochimica Acta, 1991, 182, 281-292.	1.2	24
77	Thermal Dehydration of Lithium Sulfate Monohydrate Revisited with Universal Kinetic Description over Different Temperatures and Atmospheric Water Vapor Pressures. Journal of Physical Chemistry C, 2020, 124, 11960-11976.	1.5	24
78	Energy Diagram for the Catalytic Decomposition of Hydrogen Peroxide. Journal of Chemical Education, 2013, 90, 633-636.	1.1	23
79	Significance of kinetic compensation effect in the thermal decomposition of a solid. Thermochimica Acta, 1988, 135, 79-84.	1.2	22
80	Influences of evolved gases on the thermal decomposition of zinc carbonate hydroxide evaluated by controlled rate evolved gas analysis coupled With TG. Journal of Thermal Analysis and Calorimetry, 2009, 95, 489-493.	2.0	21
81	Preparation amd thermal decomposition of basic copper(II) sulfates. Thermochimica Acta, 1988, 133, 221-226.	1.2	20
82	Kinetic study of the thermal dehydration of copper (II) acetate monohydrate I. Single crystal material. Solid State Ionics, 1990, 44, 1-9.	1.3	20
83	Kinetic characterization of multistep thermal oxidation of carbon/carbon composite in flowing air. Journal of Thermal Analysis and Calorimetry, 2017, 128, 891-906.	2.0	20
84	Conventional kinetic analysis of the thermogravimetric curves for the thermal decomposition of a solid. Thermochimica Acta, 1991, 183, 125-136.	1.2	19
85	A kinetic study of the thermal decomposition of iron(III) hydroxide oxides. Part 1. Î±-FeO(OH) in banded iron formations. Thermochimica Acta, 1995, 254, 193-207.	1.2	19
86	Kinetics of component reactions in calcium looping appeared during the multistep thermal decomposition of Portland cement under various atmospheric conditions. Chemical Engineering Journal, 2022, 428, 131197.	6.6	19
87	Effect of mechanical grinding on the reaction pathway and kinetics of the thermal decomposition of hydromagnesite. Journal of Thermal Analysis and Calorimetry, 2008, 93, 963-971.	2.0	18
88	Thermally induced transformations of calcium carbonate polymorphs precipitated selectively in ethanol/water solutions. Thermochimica Acta, 2011, 512, 13-21.	1.2	18
89	Chemical Composition of Sodium Percarbonate: An Inquiry-Based Laboratory Exercise. Journal of Chemical Education, 2013, 90, 1048-1052.	1.1	18
90	Permeability and permittivity spectra of substituted barium Ferrites BaFe12â^'x(Ti0.5Co0.5)xO19(x=0 to 5). Journal of Magnetism and Magnetic Materials, 2016, 399, 64-71.	1.0	18

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91	Heterogeneous Kinetic Features of the Overlapping Thermal Dehydration and Melting of Thermal Energy Storage Material: Sodium Thiosulfate Pentahydrate. Journal of Physical Chemistry C, 2018, 122, 8480-8490.	1.5	18
92	Kinetics of the thermal decompositions of MC2O4 to MCO3 (M=Ca, Sr AND Ba). Journal of Thermal Analysis, 1987, 32, 1521-1529.	0.7	17
93	Magnetic Temperature Standards for TG. Journal of Thermal Analysis and Calorimetry, 2003, 72, 1109-1116.	2.0	17
94	New assembled Fe-trans-1,2-bis(4-pyridyl)ethylene-NCS(NCSe) complexes â€“ hydrogen bonded and Ï€â€“Ï€ interacted structure and grid structure enclathrating ligand. Inorganica Chimica Acta, 2005, 358, 257-264.	1.2	17
95	A Kinetic Aspect of the Thermal Dehydration of Dilithium Tetraborate Trihydrate. Magyar AprÃ³vad KÃ¶zlemÃ©nyek, 2002, 67, 153-161.	1.4	16
96	The Ozawaâ€™s generalized time concept and YZ-master plots as a convenient tool for kinetic analysis of complex processes. Journal of Thermal Analysis and Calorimetry, 2013, 113, 1437-1446.	2.0	16
97	Experimental study and kinetic analysis on sodium oxideâ€“silica reaction. Journal of Nuclear Science and Technology, 2016, 53, 682-691.	0.7	16
98	Universal Kinetics of the Thermal Decomposition of Synthetic Smithsonite over Different Atmospheric Conditions. Journal of Physical Chemistry C, 2021, 125, 1384-1402.	1.5	16
99	Kinetic analysis of the nonisothermal dehydration of lithium sulfate monohydrate. Thermochimica Acta, 1991, 185, 135-140.	1.2	15
100	On the fractional conversion Î± in the kinetic description of solid-state reactions. Journal of Thermal Analysis, 1992, 38, 2553-2557.	0.7	15
101	Kinetics and mechanism of the isothermal dehydration of zinc acetate dihydrate. Thermochimica Acta, 1997, 303, 69-76.	1.2	15
102	Thermal dehydration of lithium metaborate dihydrate and phase transitions of anhydrous product. Thermochimica Acta, 2006, 443, 197-205.	1.2	15
103	Sample Controlled Thermal Analysis (SCTA) as a Promising Tool for Kinetic Characterization of Solid-State Reaction and Controlled Material Synthesis. Hot Topics in Thermal Analysis and Calorimetry, 2017, , 11-43.	0.5	15
104	Multistep thermal decomposition of granular sodium perborate tetrahydrate: a kinetic approach to complex reactions in solidâ€“gas systems. Physical Chemistry Chemical Physics, 2018, 20, 12557-12573.	1.3	15
105	Thermal Decomposition of Maya Blue: Extraction of Indigo Thermal Decomposition Steps from a Multistep Heterogeneous Reaction Using a Kinetic Deconvolution Analysis. Molecules, 2019, 24, 2515.	1.7	15
106	Factors affecting the experimentally resolved shapes of TG curves. Journal of Thermal Analysis, 1992, 38, 575-582.	0.7	14
107	A kinetic study of the thermal decomposition of iron(III) hydroxide-oxides Part 2. Preparation and thermal decomposition of Î³-FeO(OH). Thermochimica Acta, 1995, 267, 195-208.	1.2	14
108	Preparation and Thermal Decomposition of Synthetic Bayerite. Magyar AprÃ³vad KÃ¶zlemÃ©nyek, 2001, 64, 965-972.	1.4	14

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109	Effect of atmosphericwater vapor on the kinetics of thermal decomposition of copper(II) carbonate hydroxide. Journal of Thermal Analysis and Calorimetry, 2009, 95, 483-487.	2.0	14
110	Effect of Atmospheric Water Vapor on the Thermally Induced Crystallization in Zirconia Gel. Journal of the American Ceramic Society, 2012, 95, 557-564.	1.9	14
111	Polarizing microscopy for examining mechanisms of the decomposition of single crystal materials. Thermochimica Acta, 1988, 133, 227-232.	1.2	13
112	Model Experiment of Thermal Runaway Reactions Using the Aluminumâ€“Hydrochloric Acid Reaction. Journal of Chemical Education, 2016, 93, 1261-1266.	1.1	13
113	Kinetics of contracting geometry-type reactions in the solid state: implications from the thermally induced transformation processes of Î±-oxalic acid dihydrate. Physical Chemistry Chemical Physics, 2020, 22, 19560-19572.	1.3	13
114	Kinetics of nonisothermal dehydration of crushed crystals of potassium copper(II) chloride dihydrate. Thermochimica Acta, 1990, 163, 295-302.	1.2	12
115	A comparative study of the effects of decomposition rate control and mechanical grinding on the thermal decomposition of aluminum hydroxide. Journal of Thermal Analysis and Calorimetry, 2005, 81, 595-601.	2.0	12
116	Kinetic study on liquid sodiumâ€“silica reaction for safety assessment of sodium-cooled fast reactor. Journal of Thermal Analysis and Calorimetry, 2015, 121, 45-55.	2.0	12
117	Reactivity of Household Oxygen Bleaches: A Stepwise Laboratory Exercise in High School Chemistry Course. Journal of Chemical Education, 2016, 93, 1415-1421.	1.1	12
118	Thermal dehydration of calcium sulfate dihydrate: physico-geometrical kinetic modeling and the influence of self-generated water vapor. Physical Chemistry Chemical Physics, 2020, 22, 22436-22450.	1.3	12
119	Kinetic Parameterization of the Effects of Atmospheric and Self-Generated Carbon Dioxide on the Thermal Decomposition of Calcium Carbonate. Journal of Physical Chemistry C, 2022, 126, 7880-7895.	1.5	12
120	Controlled rate thermal decomposition of synthetic bayerite under vacuum. Solid State Ionics, 2004, 172, 253-256.	1.3	11
121	Thermal dehydration of dipotassium tetraborate tetrahydrate and crystallization of amorphous dehydration product. Journal of Thermal Analysis and Calorimetry, 2005, 80, 71-75.	2.0	11
122	Catalytic Action of Atmospheric Water Vapor on the Thermal Decomposition of Synthetic Hydrozincite. Transactions of the Materials Research Society of Japan, 2009, 34, 343-346.	0.2	11
123	Some Fundamental and Historical Aspects of Phenomenological Kinetics in the Solid State Studied by Thermal Analysis. Hot Topics in Thermal Analysis and Calorimetry, 2012, , 1-28.	0.5	11
124	Thermally Induced Aragoniteâ€“Calcite Transformation in Freshwater Pearl: A Mutual Relation with the Thermal Dehydration of Included Water. ACS Omega, 2021, 6, 13904-13914.	1.6	11
125	Title is missing!. Magyar AprÃ³vad KÃ¶zlemÃ©nyek, 2000, 60, 667-674.	1.4	10
126	Neutralization and Acid Dissociation of Hydrogen Carbonate Ion: A Thermochemical Approach. Journal of Chemical Education, 2013, 90, 637-641.	1.1	10

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127	Using a Laboratory Inquiry with High School Students To Determine the Reaction Stoichiometry of Neutralization by a Thermochemical Approach. Journal of Chemical Education, 2015, 92, 1526-1530.	1.1	10
128	Apparent autocatalysis due to liquefaction: thermal decomposition of ammonium 3,4,5-trinitropyrazolate. Physical Chemistry Chemical Physics, 2021, 23, 11797-11806.	1.3	10
129	Effects of Particle Size on the Kinetics of Physico-geometrical Consecutive Reactions in Solidâ€“Gas Systems: Thermal Decomposition of Potassium Hydrogen Carbonate. Journal of Physical Chemistry C, 2021, 125, 22023-22035.	1.5	10
130	An advanced kinetic approach to the multistep thermal dehydration of calcium sulfate dihydrate under different heating and water vapor conditions: kinetic deconvolution and universal isoconversional analyses. Physical Chemistry Chemical Physics, 2022, 24, 9492-9508.	1.3	10
131	Kinetic study of the dehydration of sodium citrate dihydrate. Reactivity of Solids, 1986, 2, 169-175.	0.3	9
132	Kinetic study of the thermal dehydration of copper(II) acetate monohydrate. Thermochimica Acta, 1990, 173, 53-62.	1.2	9
133	A kinetic study of the thermal decomposition of iron(III) oxide-hydroxides. Part 3. Shape control and thermal decomposition of Î±-FeO(OH). Thermochimica Acta, 1996, 282-283, 81-90.	1.2	9
134	Laboratory Inquiry for Determining the Chemical Composition of a Component in a Daily Use Detergent: Sodium Sesquicarbonate. Journal of Chemical Education, 2011, 88, 1309-1313.	1.1	9
135	Stepwise Inquiry into Hard Water in a High School Chemistry Laboratory. Journal of Chemical Education, 2016, 93, 1923-1928.	1.1	9
136	Thermal behavior of perlite concrete used in a sodium-cooled fast reactor. Journal of Thermal Analysis and Calorimetry, 2019, 138, 983-996.	2.0	9
137	Comparative study on the thermal behavior of structural concretes of sodium-cooled fast reactor. Journal of Thermal Analysis and Calorimetry, 2019, 137, 1211-1224.	2.0	9
138	Influence of atmospheric CO2 on the thermal decomposition of perlite concrete. Journal of Thermal Analysis and Calorimetry, 2022, 147, 5801-5813.	2.0	9
139	The kinetics of the isothermal dehydration of lithium sulfate monohydrate under a self-generated temperature condition. Thermochimica Acta, 1993, 224, 141-149.	1.2	8
140	Thermoanalytical and microscopic investigations of the thermal dehydration of Î±-nickel (II) sulphate hexahydrate. Journal of Thermal Analysis, 1993, 40, 1165-1172.	0.7	8
141	Thermal behavior of sodium hydroxideâ€“structural concrete composition of sodium-cooled fast reactor. Journal of Thermal Analysis and Calorimetry, 2018, 131, 301-308.	2.0	8
142	Kinetic approach to multistep thermal behavior of Ag 2 CO 3 â€“graphite mixtures: Possible formation of intermediate solids with Ag 2 Oâ€“Ag and Ag 2 CO 3 â€“Ag coreâ€“shell structures. Thermochimica Acta, 2016, 644, 50-60.	1.2	6
143	Thermal decomposition of perlite concrete under different water vapor pressures. Journal of Thermal Analysis and Calorimetry, 2022, 147, 6309-6322.	2.0	6
144	A Simple Oxygen Detector Using Zincâ€“Air Battery. Journal of Chemical Education, 2014, 91, 297-299.	1.1	5

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145	Stepwise Approach to Hessâ€™s Law Using Household Desiccants: A Laboratory Learning Program for High School Chemistry Courses. Journal of Chemical Education, 2020, 97, 166-171.	1.1	5
146	Physico-Geometrical Interpretation of the Kinetic Behavior of the Thermal Dehydration of Î²-Maltose Monohydrate. Industrial & Engineering Chemistry Research, 2020, 59, 17828-17836.	1.8	5
147	Kinetic analysis of the multistep thermal decomposition of Maya Blue-type pigments to evaluate thermal stability. Journal of Thermal Analysis and Calorimetry, 2020, 142, 1073-1085.	2.0	5
148	Geometrical constraints of thermal dehydration of Î²-calcium sulfate hemihydrate induced by self-generated water vapor. Physical Chemistry Chemical Physics, 2021, 23, 22972-22983.	1.3	5
149	Characterization of Carbon/Carbon Composites by Kinetic Deconvolution Analysis for a Thermal Oxidation Process: An Examination Using a Series of Mechanical Pencil Leads. Industrial & Engineering Chemistry Research, 2018, 57, 14460-14469.	1.8	4
150	Thermally induced dehydration reactions of monosodium ‹scp›l‹/scp›-glutamate monohydrate: dehydration of solids accompanied by liquefaction. Physical Chemistry Chemical Physics, 2021, 24, 129-141.	1.3	4
151	Identifying Liquidâ€“Gas System Misconceptions and Addressing Them Using a Laboratory Exercise on Pressureâ€“Temperature Diagrams of a Mixed Gas Involving Liquidâ€“Vapor Equilibrium. Journal of Chemical Education, 2016, 93, 79-85.	1.1	3
152	Thermal decomposition of spherically granulated malachite: physico-geometrical constraints and overall kinetics. Physical Chemistry Chemical Physics, 2021, 23, 15107-15118.	1.3	3
153	Individual effects of atmospheric water vapor and carbon dioxide on the kinetics of the thermal decomposition of granular malachite. Physical Chemistry Chemical Physics, 2022, 24, 11039-11053.	1.3	3
154	Physico-geometrical kinetics of the thermal dehydration of sodium carbonate monohydrate as a compacted composite of inorganic hydrate comprising crystalline particles and matrix. Physical Chemistry Chemical Physics, 2022, 24, 15736-15748.	1.3	3
155	Influence of Preliminary Nucleation on the Physicogeometric Kinetics of Glass Crystallization. Hot Topics in Thermal Analysis and Calorimetry, 2012, , 209-223.	0.5	1
156	Thermal behavior and kinetics of the reaction between liquid sodium and calcium hydroxide. Journal of Thermal Analysis and Calorimetry, 2022, 147, 4635-4643.	2.0	1
157	Discovering the Chemical Mechanism of Common Heating Agents: A Stepwise Inquiry with Student-Designed Experiments in a High School Laboratory Course. Journal of Chemical Education, 2021, 98, 673-677.	1.1	1
158	Obituary Note: Prof. JosÃ© Manuel Criado. Thermochimica Acta, 2018, 663, A1.	1.2	0
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