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340	Co2.8Mg0.2O4 as a promising thermochemical energy storage material with lower reduction onset temperature and higher energy density. 2022 , 55, 105594	O
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338	Enhanced catalytic activity and ignition characteristics of three-dimensional ordered macroporous FeCo2O4 through controlled synthesis. 2022 , 33, 103799	1
337	Non-isothermal cure kinetics of an anhydride-cured cycloaliphatic/aromatic epoxy system in the presence of a reactive diluent. 2022 , 717, 179351	О
336	Oxidative torrefaction of densified woody biomass: Performance, combustion kinetics and thermodynamics. 2022 , 199, 908-918	O
335	Synthesis, polymerization kinetics of 4-allyl-substituted 1,3-benzoxazine and properties of resulting polymer. 2022 , 717, 179350	O
334	Physicochemical properties and pyrolysis behavior of petcoke with artificial neural network modeling. 2023 , 331, 125735	O
333	Oxygen separation via chemical looping of the perovskite oxide Sr0.8Ca0.2FeO3 in packed bed reactors for the production of nitrogen from air. 2023 , 452, 139289	1
332	Technical progress and perspective on the thermochemical conversion of kitchen waste and relevant applications: A comprehensive review. 2023 , 331, 125803	1
331	A model for converting thermal analysis to volume fraction of high carbon bearing steels during low-temperature tempering. 2023 , 136, 212-222	О
330	Effect of Sample Mass on the Apparent Arrhenius Parameters Observed for the Thermal Dehydration of Sodium Carbonate Monohydrate.	O
329	Pyrolysis of agricultural waste in a thermogravimetric analyzer: Studies of physicochemical properties, kinetics behaviour, and gas compositions. 2022 , 5, 399-410	О
328	Solvent-free synthesis of a formaldehyde-free benzoxazine monomer: study of its curing acceleration effect for commercial benzoxazine.	O

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326	Effect of Phenolic Resin and Nano-Calcium Carbonate Particles on the Curing Kinetic of Epoxy Composites. 2022 , 61, 788-795	Ο
325	Distributed Activation Energy Modeling and Py-GC/MS Studies on Pyrolysis of Different Printed Circuit Boards for Resource Recovery. 2022 , 7, 31713-31725	O
324	Thermal analysis and pyrolysis products analysis of 4,4?-azobis (4-cyanovaleric acid) by using thermal analysis methods and combination technology.	Ο
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322	Key Factors that can Affect the Chemical Reaction Kinetics of Aged Metals/KClO4-based Energetic Materials. 2022 , 26, 28-43	Ο
321	Kinetics of the Solid-State Cyclization of Glycylglycine Dipeptide. 2022 , 58, 1076-1083	О
320	Biobased Copolyamides 56/66: Synthesis, Characterization and Crystallization Kinetics. 2022 , 14, 3879	Ο
319	Bis(5-nitroimino-1,2,4-triazole-3-yl) methane-based energetic salts: synthesis, crystal structure, thermal behavior and catalytic activity. 2022 , 134195	О
318	Hydrogen reduction of spent lithium-ion battery cathode material for metal recovery: Mechanism and kinetics. 10,	Ο
317	Thermodynamic behaviors of coal spontaneous combustion under different CO2 concentration. 1-14	0
316	Thermal behavior and kinetics of double base propellant catalyzed with green graphene iron oxide nanocomposite.	Ο
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314	Heterogeneous Dynamic Behavior and Synergetic Evolution Mechanism of Internal Components and Released Gases during the Pyrolysis of Aquatic Biomass. 2022 , 56, 13595-13606	O
313	Kinetic Studies on the Steam Gasification of Chars Derived from Coals by Different Isoconversional Methods. 2022 , 13, 1480	О
312	Effect of Preoxidation Temperature on the Reduction Kinetics of Ilmenite Concentrate.	O
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310	Comparative analysis of exothermic behaviour of fresh and aged pine wood.	Ο

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308	Hydrogen Uptake Kinetics of 1,4-Bis(phenylethynyl)benzene Rubberized O-Rings: Measurements, Modeling, and Comparison with Additional Forms of Organic Getters.	O
307	Oil in porous substrates: a thermogravimetric and simultaneous thermal analysis of spontaneous combustion risk.	О
306	Study of thermal properties and crystallization kinetics of Bi-doped 2CaO-Al2O3-SiO2 glasses.	O
305	Kinetics of crystallization mechanisms in poly(3-hexylthiophene) and poly(9,9-dihexylfluorene-alt-2,5-didodecyloxybenzene) conjugated polymers. 2022 , 134270	О
304	Thermal decomposition kinetics of Prosopis juliflora charcoal briquette using thermogravimetric analysis.	О
303	Thermal degradation of hazardous 3-layered COVID-19 face mask through pyrolysis: Kinetic, thermodynamic, prediction modelling using ANN and volatile product characterization. 2022 , 139, 104538	1
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301	Influence of Zirconia on sintering behavior and mechanical properties of Reaction Sintered Mullite-based Composite Ceramics. 1-29	О
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299	Exploration of LiCoO2-doped cobalt oxide composite for thermochemical energy storage at high temperature. 2022 , 55, 105774	О
298	Effect of sample mass on the apparent Arrhenius parameters observed for the thermal dehydration of sodium carbonate monohydrate. 2022 , 717, 179364	O
297	Multilayer perceptron neural network applied to TG dynamic data of biopolymer chitosan [A robust tool to study the kinetics of solid thermal decomposition. 2022 , 36, 101490	О
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294	Kinetic study of different biomass pyrolysis and oxygen-enriched combustion. 2022 , 26, 4131-4145	O
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291	Crystallization kinetics and nanomechanical behavior of biobased poly(ethylene 2,5-furandicarboxylate) reinforced with carbon nanotubes.	O
290	Synthesis, Curing Behaviors and Properties of a Bio-Based Trifunctional Epoxy Silicone Modified Epoxy Thermosets. 2022 , 14, 4391	Ο
289	Chemical looping oxidative propane dehydrogenation controlled by oxygen bulk diffusion over FeVO4 oxygen carrier pellets. 2022 ,	1
288	Effect of hydrogen peroxide on the thermal characteristics in the decomposition of NEnethylmorpholineNBxide.	O
287	Thermal roasting behavior and kinetics of African cobalt-rich copper sulfide ore in air atmosphere.	O
286	Kinetic triplet and thermodynamic parameters of the pyrolysis reaction of invasive grass Eleusine indica biomass: a new low-cost feedstock for bioenergy production.	O
285	Development of thermal explosion model on industrial-scale nitrocellulose under adiabatic and non-adiabatic condition.	O
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282	Challenges in Kinetic Parameter Determination for Wheat Straw Pyrolysis. 2022 , 15, 7240	1
281	Effect of nanostructure, porosity and extent of oxidation on soot reactivity. 1-14	O
2 80	Synthesis of C10H29O12Si8N (POSS T8-NH2) by corner-capped reaction and kinetics study for thermal process by OFWI and KASI methods.	Ο
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274	Simulation of the thermal degradation kinetics of biobased/biodegradable and non-biodegradable polymers using the random chain-scission model. Capabilities and limitations. 2022 , 168, 105767	O

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272	Exploring the thermal behavior of nitrocellulose used for lacquers by slow heating experiments.	O
271	Co-pyrolysis re-use of sludge and biomass waste: Development, kinetics, synergistic mechanism and industrialization. 2022 , 168, 105746	2
270	Kinetic and thermodynamic analyses based on thermogravimetric pyrolysis of watermelon seed by isoconversional and master plots methods. 2022 ,	O
269	Thermodynamics and kinetics of Doum (Hyphaene thebaica) shell using thermogravimetric analysis: A study on pyrolysis pathway to produce bioenergy. 2022 , 200, 1275-1285	1
268	Co-pyrolysis of corn stover and waste tire: Pyrolysis behavior and kinetic study based on Fraser-Suzuki deconvolution procedure. 2022 , 168, 105743	O
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266	Integration of hydrogen storage and heat storage in thermochemical reactors enhanced with optimized topological structures: Charging process. 2022 , 327, 120138	О
265	Thermal decomposition of oxamide and associated kinetic parameters through thermogravimetric analysis. 2022 , 16, 100340	0
264	Recent developments on the zeolites catalyzed polyolefin plastics pyrolysis. 2022 , 238, 107531	1
263	Mechanistic and kinetic insights into phenol-catalyzed cyclotrimerization of cyanate esters. 2022 , 718, 179382	1
262	Synthesis and oxidation behavior of the materials based on carbon fibers and ultra-high temperature binary and high-entropy carbides. 2022 , 26, 101617	O
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260	Thermodynamic, pyrolytic, and kinetic investigation on the thermal decomposition of polyvinyl chloride in the presence of franklinite. 2022 , 168, 558-569	O
259	Pyroflatalytic copyrolysis of Delonix regia and butyl rubber tube: Kinetic modelling and thermodynamic insights. 2022 , 201, 194-203	O
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256	Sunflower oil as renewable biomass source to develop highly effective oil-soluble catalysts for in-situ combustion of heavy oil. 2023 , 453, 139813	О

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254	Kinetic evaluation of the crosslinking of a low-temperature cured biobased epoxy-diamine structure. 2023 , 174, 107285	O
253	Pyrolysis kinetics, thermodynamics, and interaction analysis of co-pyrolysis of bituminous coal and electrolytic aluminum solid waste. 2023 , 333, 126375	0
252	Inhibiting effect investigation of ammonium dihydrogen phosphate on oxidative pyrolysis characteristics of bituminous coal. 2023 , 333, 126352	O
251	Bayesian identification of pyrolysis model parameters for thermal protection materials using an adaptive gradient-informed sampling algorithm with application to a Mars atmospheric entry. 2022 ,	0
250	Effect of atmospheric water vapor on independent-parallel thermal dehydration of a compacted composite of an inorganic hydrate: sodium carbonate monohydrate grains comprising crystalline particles and matrix.	O
249	Kinetic experiments for pyrolytic recycling of solid plastic waste. 2022,	О
248	Chemical kinetics of catalytic/non-catalytic pyrolysis and gasification of solid plastic wastes. 2022 ,	O
247	Anomalous Avrami index recorded during the non-isothermal crystallization of borotitanosilicate glass powders. 2023 , 600, 122008	0
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245	Comprehensive study of thermal degradation behavior of carbon fiber flexible sucker rods: Product characteristics, kinetics and thermodynamics. 2023 , 333, 126306	О
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236	Thermo-chemical conversion and kinetic evaluation of Casuarina equisetifolia pines to biochar and their utilization in sequestering toxic metal ions.	O
235	Thermal stability assessment of nitrocellulose by using multiple calorimetric techniques and advanced thermokinetics.	0
234	Unraveling the Impact of Heat- or Moist-Aging on the Combustion Heat, Ignition Features, Multistep Thermal Decomposition, and Kinetics of a Magnesium-Based Energetic Composite. 1-18	O
233	Evaluation of Composite Flame-retardant Electrolyte Additives Improvement on the Safety Performance of Lithium-ion Batteries. 2022 ,	0
232	Experimental investigation and numerical modeling of oxidative pyrolysis mechanism of mining PVC cable sheath.	O
231	Insights into the particle diameter and base chosen for dry powder fire extinguishing agents.	O
230	A thermo-kinetic investigation on the thermal degradation of polyvinyl chloride in the presence of magnetite and hematite. 2022 , 179390	O
229	Thermal transport of charging/discharging for hydrogen storage in a metal hydride reactor coupled with thermochemical heat storage materials. 2022 , 273, 116421	O
228	A state-of-the-art review on waste plastics-derived aviation fuel: Unveiling the heterogeneous catalytic systems and techno-economy feasibility of catalytic pyrolysis. 2022 , 274, 116433	1
227	Evaluation of thermodynamic and kinetic properties of carbide slag for fluidized thermochemical heat storage. 2022 , 56, 105855	1
226	Reaction/sorption kinetics of salt hydrates for thermal energy storage. 2022 , 56, 106122	O
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219	Synergistic strengthening mechanisms of mechanical activation-microwave reduction for selective lithium extraction from spent lithium batteries. 2023 , 155, 281-291	О
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217	Insight into kinetic and Thermodynamic Analysis methods for lignocellulosic biomass pyrolysis. 2023 , 202, 154-171	О
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211	Valorization of the biomass of Rhizoclonium hookeri through slow pyrolysis and its thermokinetic investigation for bioenergy potential. 2023 , 168, 106690	О
210	Non-isothermal reduction kinetics and mechanisms by hydrogen of Cu Al spinel solid solution. 2023 , 173, 106570	O
209	Blockchain-like Elanalysis strategy for two distinct White-boxImodeling methodologies to simulate the incineration of oily sludge. 2023 , 384, 135678	О
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207	n-Eicosane-Impregnated nonwoven phase change mats of electrospun Poly(ethylene oxide)/Poly(methyl methacrylate) blended fibers. 2023 , 296, 127201	О
206	The crystallization process in a new multicomponent Fe-based bulk amorphous alloy: A kinetic study approach. 2023 , 196, 112602	О
205	Kinetic analysis of CO2 gasification of corn straw. 2023 , 203, 219-227	О
204	Fe2O3/ZIF-8 architectures with enhanced thermocatalytic performance for efficient degradation of nitrocellulose. 2023 , 174, 111186	O
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200	Kinetic Study on Reduction of FeO in a Molten HIsarna Slag by Various Solid Carbon Sources.	O
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194	A Review on Flaming Ignition of Solid Combustibles: Pyrolysis Kinetics, Experimental Methods and Modelling.	O
193	Analysis of the Catalytic Effects Induced by Alkali and Alkaline Earth Metals (AAEMs) on the Pyrolysis of Beech Wood and Corncob. 2022 , 12, 1505	0
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190	Effect of two imidazole ionic liquids on the thermal stability of cumene hydroperoxide.	O
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182	Thermo-kinetic analysis and microstructural characterization of fractured-carbonate rock exposed to high temperature. 1-17	O
181	Allyl-modified epoxy networks that break and reorganize at high temperatures to avoid T reduction. 2022 , 140674	Ο
180	Thermal degradation of polyethylene oxidelffect of magnesium hydroxide addition.	O
179	Thermal behavior and decomposition kinetics of nitro-1,2,4-triazol-3-one by gas manometric technique.	0
178	Measurement of Pyrolysis Properties for Fire Spread Simulations of Spray Polyurethane Foam. 2022 , 36, 29-37	O
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176	Chicken feather thermal decomposition analysis and techno-economic assessment for production of value-added products: a pilot plant study.	O
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170	Cross-Linking Mechanisms of a Rigid Plant Oil-Based Thermoset from Furfural-Derived Cyclobutane.	O
169	Pyrolysis Kinetics of Byrsonima crassifolia Stone as Agro-Industrial Waste through Isoconversional Models. 2023 , 28, 544	0
168	Single heating rate methods are a faulty approach to pyrolysis kinetics.	O
167	Synthesis and characterization of amorphous fluorinated polyarylether prepared from phenolphthalein and decafluorobiphenyl.	О
166	Effect of 1-Butyl-3-Methyllmidazolium bis(trifluoromethylsulfonyl)imide on spontaneous combustion of bituminous coal.	Ο

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164	Effects of urea on the thermal decomposition behavior of ammonium nitrate: a reliable thermal safety performance enhancer. 2023 ,	O
163	Thermal stability of emerging N6-type energetic materials: kinetic modeling of simultaneous thermal analysis data to explain sensitivity trends.	O
162	Incorporating Graphene Nanoplatelets and Carbon Nanotubes in Biobased Poly(ethylene 2,5-furandicarboxylate): Fillers Effect on the Matrix Structure and Lifetime. 2023, 15, 401	O
161	The Influence of Processing Conditions on Gas Transport and Thermal Properties of Graphite Foil Compressed from Exfoliated Graphite. 2023 , 11, 144	O
160	Modelling the Thermal Treatment and Expansion of Mineral Microspheres (Perlite) in Electric Furnace Through Computational Fluid Dynamics (CFD): Effect of Process Conditions and Feed Characteristics. 1-18	1
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158	Investigating the correlation between the curing behavior and properties of acrylic powder coatings.	O
157	The impact of heating rate on the decomposition kinetics and product distribution of algal waste pyrolysis with in-situ weight measurement. 2023 , 457, 141368	O
156	Investigation of the thermal conversion behavior and reaction kinetics of the pyrolysis of bio-based polyurethane: A reference study. 2023 , 169, 106681	O
155	On the oxidation kinetics of aging magnesium particles. 2023 , 249, 112597	O
154	Thermal behavior and thermolysis mechanisms of graphene oxide-intercalated energetic complexes of carbohydrazide. 2023 , 9, 100106	O
153	Kinetic modelling of mixed plastic waste pyrolysis. 2023 , 9, 100105	0
152	Effects of typical additives on the thermal stability of ammonium peroxydisulfate. 2023 , 82, 104974	O
151	Kinetic and thermodynamic compensation phenomena in C3 and C4 energy crops pyrolysis: Implications on reaction mechanisms and product distributions. 2023 , 194, 116275	O
150	Thermal decomposition characteristics of the tire pyrolysis oil derived from a twin-auger reactor: Study of kinetics and evolved gases. 2023 , 338, 127248	O
149	Thermodynamics and inhibition mechanism of imidazolium-based ionic liquids for inhibiting spontaneous combustion of iron sulfide. 2023 , 338, 127335	O
148	Interactions of co-firing coal gangue and high sodium coal: Combustion characteristics and emission behaviors of polluting gases. 2023 , 339, 127382	O

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145	Assessment of unexplored isoconversional methods to predict epoxy-based composite curing under arbitrary thermal histories. 073168442211455	0
144	Influence of Intrinsic Physicochemical Properties of Agroforestry Waste on Its Pyrolysis Characteristics and Behavior. 2023 , 16, 222	Ο
143	Investigation of the inverse problem for the Arrhenius equation using the example of thermal degradation of spongin-based scaffolds.	Ο
142	Thermo-chemical conversion of cucumber peel waste for biobased energy and chemical production.	O
141	Hole-growth phenomenon during pyrolysis of a cation-exchange resin particle. 2022, 23, 974-987	О
140	Thermogravimetry. 2016 , 18-46	O
139	Kinetic investigation of the multi-step thermal decomposition of graphene oxide paper.	О
138	Kinetics of thermal degradation. 2023 , 41-47	O
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137	The pyrolysis behavior of poly(styrenethethyl methacrylate) copolymer and expanded polystyrene (EPS) foams using model-free and model fitting methods.	0
137		
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136 135	(EPS) foams using model-free and model fitting methods. Good laboratory practice in thermal analysis and calorimetry. Thermal degradation techniques. 2023, 19-40 Pyrolysis, kinetics and thermodynamic analyses of rice husks/clay fiber-reinforced polylactic acid	0 0
136 135 134	(EPS) foams using model-free and model fitting methods. Good laboratory practice in thermal analysis and calorimetry. Thermal degradation techniques. 2023, 19-40 Pyrolysis, kinetics and thermodynamic analyses of rice husks/clay fiber-reinforced polylactic acid composites using thermogravimetric analysis. Cooperative Characterization of In Situ TEM and Cantilever-TGA to Optimize Calcination Conditions	0 0
136 135 134	(EPS) foams using model-free and model fitting methods. Good laboratory practice in thermal analysis and calorimetry. Thermal degradation techniques. 2023, 19-40 Pyrolysis, kinetics and thermodynamic analyses of rice husks/clay fiber-reinforced polylactic acid composites using thermogravimetric analysis. Cooperative Characterization of In Situ TEM and Cantilever-TGA to Optimize Calcination Conditions of MnO2 Nanowire Precursors. Investigating the kinetics of the thermolysis of 3-nitro-2,4-dihydro-3H-1,2,4-triazol-5-one (NTO) and	0 0 0

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128	On the pyrolysis characteristic parameters of four flame-retardant classes of PVC sheathless cable insulation materials. 2023 , 170, 105901	O
127	Fabrication and performance of nitrocellulose nanoparticles reinforced environment-friendly waterborne ethyl cellulose (Surelease'll) nanocomposites. 2023 , 662, 130997	O
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125	Enhanced photocatalytic degradation of PE film by anatase/EMnO2. 2023, 210, 110295	O
124	An insight into the thermal processability of highly bioactive borosilicate glasses through kinetic approach.	O
123	New insights into the thermal behavior and stability of ammonium bifluoride: non-isothermal thermokinetic analysis.	О
122	Inverse modelling of pyrolization kinetics with ensemble learning methods. 2023 , 136, 103744	O
121	Investigation of how pressure influences the thermal decomposition behavior of azodicarbonamide. 2023 , 105062	O
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