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## Reaction Kinetics in Differential Thermal Analysis

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715	Kinetic study on pyrolysis of mustard stalk using thermogravimetric analysis. <b>2022</b> , 17, 100942	1
714	Age-Hardening Behavior in High-Nitrogen Stable Austenitic Stainless Steel. <b>2022</b> , 63, 163-169	Ο
713	MgH2 confinement in MOF-derived N-doped porous carbon nanofibers for enhanced hydrogen storage. <b>2022</b> , 434, 134701	4
712	The heating performance and kinetic behaviour of oil shale during microwave pyrolysis. <b>2022</b> , 244, 123021	1
711	Experiments and simulations on factors affecting the stereoscopic fire flooding in heavy oil reservoirs. <b>2022</b> , 314, 123146	O
710	Nonisothermal crystallization behavior of micron-sized Mg85Ni5Y10 amorphous wires. <b>2022</b> , 581, 121412	О
709	Structural configuration-radiation stability relationship in the degradation of dumbbelled POSSs. <b>2022</b> , 193, 110001	
708	Catalytic combustion of heavy crude oil by oil-dispersed copper-based catalysts: Effect of different organic ligands. <b>2022</b> , 316, 123335	1
707	Improved oxygen balance and effective energy density by coligand and dehydration strategy: Synthesis and characterization of two new energetic coordination polymers. <b>2022</b> , 6, 100035	
706	Non-isothermal kinetics of coal char oxyfuel combustion by isothermal model-fitting method. <b>2022</b> , 8, 2062-2071	О
705	Thermal Behavior and Decomposition Mechanism of Double-Base Solid Propellants by Kinetic Methods.	

704	Effect of substituents on the crystal structure and thermal stability of N-phosphorylated iminophosphoranes. 1	
703	Influence of cyanate ester modifier on the thermal, mechanical, and corrosive properties of epoxy composite coating.	О
702	Optimisation of operation conditions and thermal analysis kinetics of roasting nickel-chromium mixed oxidised ore by ammonium sulphate. 1-9	
701	Valorization of Wet Oily Petrochemical Sludge via Slow Pyrolysis: Thermo-Kinetics Assessment and Artificial Neural Network Modeling. <b>2022</b> , 9,	O
700	Assessment of activation energy of enthalpy relaxation in sucrose-water system: effects of DSC cycle type and sample thermal history. 1	1
699	Numerical study on curing-induced residual stress and deformation of adhesively bonded sandwich structures of dissimilar materials. 1	
698	Facile fabrication of metastable aluminum/fluoropolymer composite films by spin-coating and their thermal properties. <b>2022</b> , 29, 1	
697	Complex thermal kinetic study of calcium phosphate biomaterial CaHPO4 using the asymmetric deconvolution approach. 1	1
696	Kinetics and thermodynamic study of Calligonum polygonoides pyrolysis using model-free methods. <b>2022</b> , 160, 130-130	1
695	Comparative study of thermal stability and crystallization kinetics between melt-spun and bulk Pd77.5Cu6Si16.5 metallic glasses. <b>2022</b> , 17, 2203-2203	Ο
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693	Synergetic catalyst effect of Ni/Pd dual metal coating accelerating hydrogen storage properties of ZrCo alloy. <b>2022</b> , 47, 9946-9946	1
692	The glass transition of water, insight from phase change materials. <b>2022</b> , 14, 100084	2
691	Reducing the Electron Delocalization of FOX-7 toward a Thermally Stable Explosive as a Hexanitrosilbene (HNS) Replacement.	Ο
690	Exploring polymer precursors for low-cost high performance carbon fiber: A materials genome approach to finding polyacrylonitrile-co-poly(N-vinyl formamide). <b>2022</b> , 243, 124570	О
689	Exploration of crystal growth behavior in Au-based metallic glass by nanocalorimetry. 2022, 143, 107494	O
688	Enzymolysis-treated wood-derived hierarchical porous carbon for fluorescence-functionalized phase change materials. <b>2022</b> , 234, 109735	4
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686	Reduced emission Firecrackers: Barium-free pyrotechnic formulations. <b>2022</b> , 317, 123500	О
685	Nanoparticles as Catalyst for Asphaltenes and Waste Heavy Hydrocarbons Upgrading. <b>2021</b> , 131-163	
684	Crystal Structure and Thermal Decomposition of Two Alkaline Earth Metal Coordination Polymers Based on 2,5-Bis- (2H-Tetrazol-5-yl) Terephthalic Acid.	
683	Analysis of Pyrolysis Characteristics and Kinetics of Cigar Tobacco and Flue-Cured Tobacco by TG-FTIR. <b>2021</b> , 30, 29-43	O
682	Tailorable Fragile-to-Strong Kinetics Features of Phase-Change Antimony Films by Metallic Oxides Doping.	
681	Pyrolysis of Biomass and Polypropylene: Influence of Pyrolysis Temperature Range, Biomass Type, and Biomass Polypropylene Mass Ratio on the Synergistic Effect.	
680	Promising Fuels for Energetics: Spherical Al-Li Powders with High Reactivity Via Incorporation of Li.	
679	Characterization, performance evaluation and lifetime analysis of thermoset resin. <b>2022</b> , 503-582	
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667	Thermal Behaviour and Kinetic Parameters of Ternary Mg+SrO 2 +DNAN Pyrotechnic Compositions. <b>2022</b> , 47,	1
666	Crystallization Behavior of Novel Al2O3-YAG Amorphous Ceramic Coating Deposited by Atmospheric Plasma Spraying. <b>2022</b> , 31, 462-476	O
665	Bi1,8-xGaxPb0,2Sr2CaCu2Oy Cam Seramiklerin Termal Øelliklerinin °ncelenmesi.	
664	Toughening of benzoxazine structural adhesives and surface films. 1-15	O
663	A new methacrylate polymer functionalized with fluoroarylketone prepared by hydrothermal method and its nanocomposites with SiO2: thermal, dielectric, and biocidal properties. 1	O
662	Slow Cook-Off Experiment and Numerical Simulation of Spherical NQ-Based Melt-Cast Explosive <b>2022</b> , 15,	
661	Synthesis of low-cost biomass charcoal-based Ni nanocatalyst and evaluation of their kinetic enhancement of MgH2. <b>2022</b> ,	3
660	Thermal kinetics, thermodynamics, decomposition mechanism, and thermal safety performance of typical ammonium perchlorate-based molecular perovskite energetic materials. 1-10	O
659	Thermodynamic properties, decomposition kinetics of 2-(5-amino-2H-tetrazol-1-yl)-4-amine-3,5-dinitropyridine <b>2022</b> , 28, 79	2
658	Hydrogen Trapping States and Apparent Hydrogen Diffusion in Laser Additively Manufactured Ultra-high Strength AerMet100 Steel as Function of Secondary Hardening.	
657	Catechin and Furfurylamine Derived Biobased Benzoxazine with Latent-Catalyst Effect. 2100458	1
656	A Unique Nanoflake-Shape Bimetallic Ti-Nb Oxide of Superior Catalytic Effect for Hydrogen Storage of MgH <b>2022</b> , e2107013	4
655	Effect of MgO/Al2O3 ratio on the crystallization behaviour of Li2OMgOAl2O3BiO2 glass-ceramic and its wettability on Si3N4 ceramic. <b>2022</b> ,	O
654	A Novel Low-Temperature Fluorination Roasting Mechanism Investigation of Regenerated Spent Anode Graphite via TG-IR Analysis and Kinetic Modeling <b>2022</b> , 7, 11101-11113	O
653	Effect of Anionic Carboxymethyl Cellulose Acetate Butyrate on Recrystallization and Surface Modification of Energetic Ion Salt TKX-50 Crystal. <b>2022</b> , 128885	O
652	Curing characteristics of low molecular weight melamine-ureafformaldehyde (MUF) resin-impregnated poplar wood. <b>2022</b> , 325, 126814	1
651	Development of a green epoxy adhesive for cork by adding lignin: thermal and bonding properties. 1	

650	Study on Fire Behavior, Thermal Stability and Degradation Kinetics of Thiol-Ene with Poly(aminopropyl/phenyl)silsesquioxane <b>2022</b> , 14,	О
649	Thermo-kinetic analysis, thermodynamic parameters and comprehensive pyrolysis index of Melia azedarach sawdust as a genesis of bioenergy. 1	Ο
648	Study on Thermal Stability of Zr46Cu40 $\square$ Ag6+xAl8 (x = 0 & amp; 2.5) Bulk Metallic Glass. <b>2022</b> , 75, 1069-1073	
647	Effect of Ho Addition on the Glass-Forming Ability and Crystallization Behaviors of ZrCuAlNi Bulk Metallic Glass <b>2022</b> , 15,	2
646	Synthesis of coated silver-containing nanocomposites of a new methacrylate polymer having pendant fluoroarylketone by hydrothermal technique and investigation of thermal, optical, dielectric and biological properties <b>2022</b> , 1-18	0
645	A numerical method for studying the effect of calcium silicate lining on road tunnel fires. <b>2022</b> , 29, 101245	
644	Combustion behaviour and reaction kinetics of GO/Al/oxidizing salts ternary nanothermites.	O
643	Fabrication and evaluation of aramid fiber/polytetrafluoroethylene emulsion/tourmaline particle composite filter media: Filtration performance, thermal behavior, and mechanical property. 1528083722107	40 <sup>O</sup>
642	Temperature-Controlled Spectrophotometry: A simultaneous analysis of phase transition, thermal degradation and optical properties of semi-transparent composites from 20 °C to 450 °C.	О
641	Preparation and characterization of CL-20/NTO/Estane5703 composite microspheres by spray drying. <b>2022</b> , 12, 035049	
640	Comprehensive Estimation of Combustion Behavior and Thermochemical Structure Evolution of Four Typical Industrial Polymeric Wastes. <b>2022</b> , 15, 2487	О
639	A Review of Different Models Derived from Classical Kolmogorov, Johnson and Mehl, and Avrami (KJMA) Theory to Recover Physical Meaning in Solid-State Transformations. 2100524	1
638	Polystyrene/polyolefin elastomer/halloysite nanotubes blend nanocomposites: Morphology-thermal degradation kinetics relationship.	4
637	Thermal interactions between hybrid HMX/ANPyO cocrystals and commonly used propellant ingredients. <b>2022</b> ,	
636	Preparation of Sb2Se3-based ceramics and glass-ceramics from native thin films deposited on Kapton foil. <b>2022</b> ,	0
635	Formation kinetics of sol-gel derived LiFePO4 olivine analyzed by reliable non-isothermal approach. <b>2022</b> ,	Ο
634	The Legacy of Mercury Contamination from a Past Leather Manufacturer and Health Risk Assessment in an Urban Area (Pisa Municipality, Italy). <b>2022</b> , 14, 4367	О
633	Crystallization of Lanthanide-Ho and Tm Ions Doped Tellurite Glasses <b>2022</b> , 15,	

632	Reducing the melting point and curing temperature of aromatic cyano-based resins simultaneously through a Brfisted acid-base synergistic strategy. <b>2022</b> , 246, 124745	1
631	Formaldehyde-Free Synthesis of Fully Bio-Based Multifunctional Bisbenzoxazine Resins from Natural Renewable Starting Materials.	6
630	Combustion kinetics of hydrochar from cow-manure digestate via thermogravimetric analysis and peak deconvolution <b>2022</b> , 127142	O
629	Investigation of pyrolysis kinetics, mechanism and thermal stability of tert-butyl peroxy-2-ethyl hexanoate. <b>2022</b> , 160, 734-748	O
628	N-doped carbon coated Ti3C2 MXene as a high-efficiency catalyst for improving hydrogen storage kinetics and stability of NaAlH4. <b>2022</b> , 188, 778-787	4
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626	Thermo-gravimetric kinetics analysis for the synthesis of lithium aluminate and fabrication of pebbles by solid state reaction process. <b>2022</b> , 99, 100412	1
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622	Pyrolysis of waste Fischer-Tropsch wax: An experimental study. <b>2022</b> , 350, 131529	O
621	Analysis of trapping sites for deuterium in WIIrII SMART alloy. <b>2022</b> , 199, 110956	O
620	Effects of P addition on the glass forming ability, crystallization behaviour and soft magnetic properties of FeNi-based amorphous alloy. <b>2022</b> , 144, 107533	O
619	Phase transformation and microstructure evolution of Ti6Al4V-0.55Fe alloy with different initial microstructure during continuous heating. <b>2022</b> , 18, 1704-1716	1
618	Effect of hydrothermal pretreatment on deashing and pyrolysis characteristics of bamboo shoot shells. <b>2022</b> , 247, 123510	O
617	Softening in an ultrasonic-vibrated Pd-based metallic glass. <b>2022</b> , 144, 107527	O
616	Improved MgH2 kinetics and cyclic stability by fibrous spherical NiMoO4 and rGO. <b>2022</b> , 134, 104311	3
615	Developing a solid decomposition kinetics extraction framework for detailed chemistry pyrolysis and combustion modelling of building polymer composites. <b>2022</b> , 163, 105500	0

614	Spherical Al-Zr alloy powders prepared by centrifugal atomization for tunable energetic behavior. <b>2022</b> , 315, 131955	0
613	Catalytic fast pyrolysis of soybean hulls: Focus on the products. <b>2022</b> , 163, 105492	O
612	A cleaning approach for the preparation of nano tungsten oxide from waste tungsten powder by hydrogen peroxide leaching and spray pyrolysis. <b>2022</b> , 347, 131223	
611	Grain boundary status dependent mechanical property of annealed nanocrystalline Ni(Fe) alloy. <b>2022</b> , 18, 1191-1204	
610	In situ consolidation process-based fabrication and interlaminar modification mechanism associated with CF/PEEK multiscale nanocomposites characterized by interlaminar doping of CNTs. <b>2022</b> , 222, 109356	O
609	A general strategy for overcoming the trade-off between ultrasmall size and high loading of MOF-derived metal nanoparticles by millisecond pyrolysis. <b>2022</b> , 97, 107125	1
608	Glass transition kinetics and fragility of ZrCuAlNi(Nb) metallic glasses. 2022, 145, 107532	О
607	Modelling and design of a novel calcination reactor integrated with a CO2 capture process for intensified hydrogen production. <b>2022</b> , 231, 107253	O
606	Assessment of the pyrolysis kinetics and mechanism of vegetable-tanned leathers. 2022, 164, 105502	1
605	Characterization and kinetics of thermal decomposition behavior of plum and fig pomace biomass. <b>2022</b> , 352, 131637	O
604	Study on the characteristics and influencing factors of micron/nano carbon material dust explosions. <b>2022</b> , 77, 104757	Ο
603	Research on the co-pyrolysis of coal slime and cellulose based on TG-FTIR-MS, artificial neural network, and principal component analysis. <b>2022</b> , 320, 123960	O
602	Glass formation, thermal stability and fragility minimum in Ge-Te-Se glasses. 2022, 152, 111833	О
601	Synthesis and characterization of novel methacrylate copolymers having pendant piperonyl group: monomer reactivity ratio, thermal degradation kinetics, and biological activity. <b>2021</b> , 29, S1432-S1445	
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598	Simple microwave pyrolysis kinetics of lignocellulosic biomass (oil palm shell) with activated carbon and palm oil fuel ash catalysts. <b>2021</b> ,	
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593	Monosubstituted Polynitroalkoxy-1,2,4,5-Tetrazines: A New Family of Melt-Castable Energetic Materials. <b>2022</b> , 47,	O
592	Effects of Organic Based Heat Stabilizer on Properties of Polyvinyl Chloride for Pipe Applications: A Comparative Study with Pb and CaZn Systems <b>2021</b> , 14,	1
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589	Fully Eugenol-Based Epoxy Thermosets: Synthesis, Curing, and Properties. 2100833	
588	Thermal decomposition behaviors of a self-intumescent flame retardant epoxy resin. 2022, 139, 52067	O
587	Hermetic Thermal Decomposition Behaviors and Specific Heat Capacity of 2,4,6-Triazido-1,3,5-Triazine (TAT). <b>2021</b> ,	
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585	Crystallization Kinetics, Structure and Phase Formation of Magnetic Nanocrystals in Bioactive Glass Systems. <b>2022</b> , 222, 199-208	
584	Structure and Magnetic Properties of Thermodynamically Predicted Rapidly Quenched FeCuB Alloys <b>2021</b> , 14,	1
583	A new cure kinetics model to simulate thermomechanical behavior of polymeric sealants for automotive applications. <b>2021</b> , 3, 045008	
582	Non-isothermal crystallization kinetics and its effect on the mechanical properties of homopolymer isotactic polypropylene. <b>2022</b> , 29, 1	1
581	A multiphase approach for pyrolysis modelling of polymeric materials. 1	O
580	A bio-based epoxy resin derived from p-hydroxycinnamic acid with high mechanical properties and flame retardancy. <b>2021</b> ,	2
579	Hyperstoichiometric Uranium Dioxides: Rapid Synthesis and Irradiation-Induced Structural Changes. <b>2021</b> ,	O

578	Microporous Carbon and Carbon/Metal Composite Materials Derived from Bio-Benzoxazine-Linked Precursor for CO Capture and Energy Storage Applications <b>2021</b> , 23,	13
577	Self-assembly preparation of advanced metastable MCo2O4/GO/Al (M=Cu, Mg, Zn, Ni) nanothermites to realize large heat release, stable combustion and high safety. <b>2022</b> ,	1
576	Assessing pyrolysis behavior of silicon-containing arylacetylene resin via experiments and ReaxFF MD simulations. <b>2022</b> , 105528	1
575	Extrinsic Self-Healing via Anionic Polymerization. <b>2022</b> , 159-188	
574	Tuning Molecular Composition for Better Cross-section Homogeneity of Thermal Oxidative Stabilized Polyacrylonitrile for Carbon Materials. 1	
573	Extrinsic Self-Healing Via Miscellaneous Reactions. <b>2022</b> , 189-222	
572	Extrinsic Self-Healing Via Cationic Polymerization. <b>2022</b> , 108-158	
571	Investigation of DSC curing kinetic model fitting and rheological behavior of urushiol/IPDI system. <b>2022</b> , 179210	O
570	Thermal analysis and non-isothermal crystallization kinetic of PET/UiO-66 nanocomposite. <b>2022</b> , 18, 349	<b>2-3501</b> <sub>O</sub>
569	Thermal degradation and pyrolysis behavior of wholly aromatic phosphorus-containing thermotropic liquid crystal copolyesters. <b>2022</b> , 164, 105524	Ο
568	A comparative study on morphology, composition, kinetics, thermal behaviour and thermodynamic parameters of Prosopis Juliflora and its biochar derived from vacuum pyrolysis. <b>2022</b> , 18, 101053	О
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562	Calorimetric Studies of Crystallization in Se74te20sn2ge4 Glass Under Heating/Cooling Mode.	
561	Simultaneously enhance the fire safety and mechanical properties of PLA by incorporating a cyclophosphazene-based flame retardant. <b>2022</b> , 22, 411-429	Ο

560	Explosive Properties of the New Nitro-Imidazole-Based Energetic Compounds: A Combined Experimental and Molecular Modeling Study.	
559	Effect of Si Addition on the Magnetic Properties of Feni-Based Alloys with L10 Phase Through Annealing Amorphous Precursor.	
558	Kinetics Analysis of Solid State Reaction for the Synthesis of Lithium Orthosilicate. 2022, 379-391	1
557	Sustainable NaAlH4 production from recycled automotive Al alloy.	1
556	On the Promotion of TKX-50 Thermal Activity with Aluminum.	0
555	Effect of ZnO on the crystallization behavior and properties of SiO2faOAl2O3fe2O3 glass-ceramics prepared from simulated secondary slag after reduction of copper slag. 2022,	O
554	Metal Ion-Catalyzed Low-Temperature Curing of Urushiol-Based Polybenzoxazine <b>2022</b> , 10, 879605	0
553	Studies on thermokinetic and reactive mechanism of graphdiyne-based NC composite via multi isoconversional methods and model reconstruction. <b>2022</b> , 29, 4365-4379	O
552	Dibutyltin(IV) maleate as a new effective initiator for the ring-opening polymerization of Ū-caprolactone: the non-isothermal kinetics, mechanism, and initiator performance in polymer synthesis. 1	О
551	Functionalization of poly(butylene adipate-co-terephthalate) with itaconic anhydride through graft copolymerization.	
550	Cardanol-Derived Epoxy Resins as Biobased Gel Polymer Electrolytes for Potassium-Ion Conduction. <b>2022</b> , 4, 3855-3865	5
549	Study of isotope effect on dehydrogenation kinetics of Pd based alloys using differential scanning calorimetry. <b>2022</b> ,	O
548	Kinetic analysis of the formation of magnesium aluminate spinel (MgAl2O4) from $\square$ Al2O3 and MgO nanopowders. 1	0
547	Investigation of hydrogen embrittlement properties of Ni-based alloy 718 fabricated via laser powder bed fusion. <b>2022</b> ,	O
546	Striking Enhanced Effect of PrF3 Particles on Ti3C2 MXene for Hydrogen Storage Properties of MgH2. <b>2022</b> , 165291	1
545	Crystallization Kinetics of Hypo, Hyper and Eutectic NiNb Glassy Alloys. <b>2022</b> , 12, 808	
544	In Situ Formation of Mg2Ni on Magnesium Surface via Hydrogen Activation for Improving Hydrogen Sorption Performance.	1
543	1,3,5-Tris[(2-tetrazol-5-yl)methyl]isocyanurate and Its Tricationic Salts as Thermostable and Insensitive Energetic Materials <b>2022</b> , 24, 3555-3559	5

542	Copper-Based Energetic Coordination Polymers Regulated by CNIand NO3Ifor the Combustion Decomposition of Ammonium Perchlorate.	О
541	Crystallization behavior and thermal stability mechanism of plasma sprayed Al2O3-GAP amorphous ceramic coatings. <b>2022</b> ,	1
540	Comparative Research on Promising Energetic 1,3-Diazinane and 1,3-Oxazinane Structures. 2022, 103947	
539	Metastable states and physical properties of Co-Cr-Fe-Mn-Ni high-entropy alloy thin films. 1-9	О
538	Effect of properties and crystallization behavior of BaOZnOB 2 O 3 BiO 2 glass on the electrical conductivity of Cu paste.	O
537	Interaction between dislocations, precipitates and hydrogen atoms in a 2000´MPa grade hot-stamped steel. <b>2022</b> , 18, 4353-4366	О
536	Catalytical enhancement on hydrogen production from LiAlH4 by FeHe2O3 addition. <b>2022</b> , 47, 16964-16977	1
535	Insights into the thermal decomposition of organometallic compound ferrocene carboxaldehyde as precursor for hematite nanoparticles synthesis. <b>2022</b> ,	
534	Unveiling deoxygenation thermokinetics for controlling electrical transport and water removal from freestanding graphene oxide paper: Differential scanning calorimetry and thermomechanical analyzer study. <b>2022</b> , 126, 109081	
533	Flame retardancy and chemical degradation of epoxy containing phenylphosphonate group under mild conditions. <b>2022</b> , 239, 109967	1
532	Atomistic characterisation of graphite oxidation and thermal decomposition mechanism under isothermal and Non-Isothermal heating scheme. <b>2022</b> , 210, 111458	
531	Assessing the pyrolysis potential of redgram stalk: Thermo-kinetic study, empirical modelling and product characterization. <b>2022</b> , 14, 100426	Ο
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330	Energetic Systematics of Metal©rganic Frameworks: A Case Study of Al(III)-Trimesate MOF Isomers. <b>2022</b> , 61, 15152-15165	Ο
329	Catalytic effect of MOF-derived transition metal catalyst FeCoS@C on hydrogen storage of magnesium. <b>2022</b> ,	2
328	Unraveling the Effect of Carbon Nanotube Oxidation on Solid-State Decomposition of Ammonia Borane/Carbon Nanotube Composites. <b>2022</b> , 126, 16587-16594	0
327	Synergistic action of initiator and accelerator on curing thermodynamics and kinetics of chopped carbon fiber-reinforced low-density unsaturated polyester resin with rapid polymerization.	O

326	Controlling the microstructure and properties of lithium disilicate glass-ceramics by adjusting the content of MgO. <b>2022</b> ,	О
325	Iron carbide-nitride supported at the surface of rGO towards enhancing the thermal decomposition of energetic molecular perovskite. <b>2022</b> , 111576	O
324	Study of thermal properties and crystallization kinetics of Bi-doped 2CaO-Al2O3-SiO2 glasses.	О
323	Cross-heating-rate prediction of thermogravimetry of PVC and XLPE cable insulation material: a novel artificial neural network framework.	1
322	Design and Fabrication of Low-Cost Renewable Carbon Electrode Materials and their Thermo-Kinetics for Sustainable Energy Storage Applications. <b>2022</b> , 100245	О
321	Kinetic study of domestic sewage sludge combustion using Hopfield neural network.	Ο
320	Thermal behavior and kinetics analysis of co-combustion of petroleum coke and paper sludge-derived hydrochar. <b>2022</b> , 153, 405-414	1
319	Direct comparison of C and N effect on hydrogen embrittlement of stable 17Cr-10Ni-6Mn austenitic stainless steel. <b>2022</b> , 208, 110691	Ο
318	Hydrogen bond networks enhance the safety of energetic salts azobistetrazole-1,1?-dioxy dimethylbiguanide. <b>2022</b> , 206, 111503	Ο
317	Using a carbon fiber sizing to tailor the interface-interphase of a carbon nanotube-polymer system. <b>2022</b> , 247, 110284	1
316	Effect of natural phosphate content on the growth kinetics of hydroxyapatite crystals grown from kaolin clay. <b>2022</b> , 292, 126865	0
315	Two amino acid Cu (II)-MOFs via one-pot method: Exhibiting good catalytic effect on the thermal decomposition of ammonium perchlorate and hexogen. <b>2022</b> , 316, 123551	Ο
314	Effect of melt thermal history on magnetic properties and thermal stability in FeBi <b>B</b> C amorphous alloy. <b>2022</b> , 151, 107741	0
313	Facile synthesis of nitroamino-1,3,4-oxadiazole with azo linkage: a new family of high-performance and biosafe energetic materials. <b>2022</b> , 10, 22803-22811	2
312	The role of terphenyl-containing carboxylic acid in the oligomerization of aryl vinyl ketone. <b>2022</b> , 24, 26083-26093	0
311	Effects of Degradation on the Thermal Stability LiNi <sub>0.8</sub> Co <sub>0.1</sub> Mn <sub>0.1</sub> O <sub>2Batteries. <b>2022</b>,</sub>	sub>/Gr
310	Kinetic study of different biomass pyrolysis and oxygen-enriched combustion. <b>2022</b> , 26, 4131-4145	0
309	Comparative Analysis of the Characteristics of Amorphous, Nanocrystalline, and Crystalline Membrane Alloys. <b>2022</b> , 2022, 797-817	O

308	Morphology and properties of CL-20/MTNP cocrystal prepared via facile spray drying. 2022,	O
307	Study on Pyrolysis Characteristics of Chinese Fir under Different Natural Aging Times. <b>2022</b> , 5, 161	Ο
306	Synthesis of Cull and CdII Metal Drganic Frameworks Based on 4,5-Bis(1-hydroxytetrazol-5-yl)-1,2,3-triazole and Their Effects as the Catalyst in Ammonium Perchlorate Thermal Decomposition.	O
305	Study of the Reaction Mechanisms during the Thermal Decomposition of Arsenic Sulfide (V) at High Temperatures under Non-Isothermal Conditions. <b>2022</b> , 12, 1379	O
304	Thermal Behavior and Decomposition Mechanism of Three Nitrate Energetic Materials: TNNP, TNOP and DNHM. <b>2022</b> , 105744	О
303	Vulcanization kinetics of acrylonitrile-butadiene rubber reinforced with graphene oxide and reduced graphene oxide in the absence of co-cure accelerator.	1
302	Effect of metastable phase on the crystallization and mechanical properties of MgO-Al2O3-SiO2 glass-ceramics without nucleating agents. <b>2022</b> ,	O
301	Study on a novel synthetic route and properties of 1-trinitromethyl-3-nitro-1,2,4-triazole (TNMNT).	O
300	ICTAC Kinetics Committee recommendations for analysis of thermal decomposition kinetics. <b>2022</b> , 179384	8
299	Thermal Degradation Behavior of Thiol-ene Composites Loaded with a Novel Silicone Flame Retardant. <b>2022</b> , 14, 4335	1
298	Effects of heating cooling rate and cooling method after aging on the thermal properties of Ni-rich NiTiNb alloy with low Nb. <b>2022</b> , 137,	0
297	Mechanism, Kinetics and Thermodynamics of Decomposition for High Energy Derivatives of [1,2,4]Triazolo[4,3-b][1,2,4,5]tetrazine. <b>2022</b> , 27, 6966	O
296	Improving hydrogen storage thermodynamics and kinetics of Ce-Mg-Ni-based alloy by mechanical milling with TiF3. <b>2022</b> ,	0
295	Preliminary Study on Characteristics of NC/HTPB-Based High-Energy Gun Propellants. <b>2022</b> , 6, 80	O
294	Thermal degradation kinetics, mechanism, thermodynamics, shape memory properties and artificial neural network application study of polycaprolactone (PCL)/polyvinyl chloride (PVC) blends.	0
293	A Service Life Prediction Method of Stranded Carbon Fiber Composite Core Conductor for Overhead Transmission Lines. <b>2022</b> , 14, 4431	O
292	Kinetic Analysis of Isothermal and Non-Isothermal Reduction of Iron Ore Fines in Hydrogen Atmosphere. <b>2022</b> , 12, 1754	0
291	Corrosion and in vitro cytocompatibility investigation on the designed Mg-Zn-Ag metallic glasses for biomedical application. <b>2022</b> ,	O

290	Corrosion behavior and thermal cycle stability of TiNiTa shape memory alloy.	О
289	Toughening effect of poly (arylene ether nitrile) on phthalonitrile resin and fiber reinforced composites. <b>2022</b> , 57, 18343-18355	0
288	Preparation and characterization of lithium disilicate-fluorcanasite glass-ceramics for dental applications. <b>2022</b> , 105548	О
287	Laboratorial investigation of Na-pyrotechnic aerosol controlling spontaneous fire hazards in underground coal mine.	O
286	Effect of Microstructure on Strain Aging and Hydrogen Embrittlement Behavior of Bake Hardening Steels. <b>2022</b> , 60, 811-818	0
285	Thermal stability and glass transition kinetics in GeTeSb glasses by using non-isothermal measurement. <b>2022</b> , 19, 735-741	О
284	The role of cementite on the hydrogen embrittlement mechanism in martensitic medium-carbon steels. <b>2022</b> , 859, 144204	О
283	Co-pyrolysis re-use of sludge and biomass waste: Development, kinetics, synergistic mechanism and industrialization. <b>2022</b> , 168, 105746	2
282	Effects of Nb microalloying on the magnetic properties and microstructure of Fe-Si-B-P-Cu-Nb nanocrystalline alloys prepared with pure and industrial raw materials. <b>2022</b> , 167886	О
281	Crystallization studies on heterogeneous melts of polybutene-1. <b>2022</b> , 261, 125408	O
280	Mechanical load induced hydrogen charging of retained austenite in quenching and partitioning (Q&P) steel. <b>2022</b> ,	0
279	Preparation, characterization, thermal behavior and decomposition kinetics of new high-nitrogen energetic salts based on 3-amino-5-hydrazinopyrazole. <b>2022</b> , 718, 179359	O
278	Thermal decomposition of oxamide and associated kinetic parameters through thermogravimetric analysis. <b>2022</b> , 16, 100340	О
277	Recent developments on the zeolites catalyzed polyolefin plastics pyrolysis. <b>2022</b> , 238, 107531	1
276	Thermal stability and crystallization behavior of Al86Ni9Y5 amorphous alloys with different Si addition. <b>2022</b> , 194, 112387	1
275	Thermodynamic, pyrolytic, and kinetic investigation on the thermal decomposition of polyvinyl chloride in the presence of franklinite. <b>2022</b> , 168, 558-569	O
274	Solvent-free 3D layered energetic metal organic framework: Structure, stability, and its laser response. <b>2023</b> , 317, 123607	О
273	A new ternary copper (II) complex of 2,4-dihydroxybenzoic acid: Synthesis, crystal structure and its catalytic decomposition effect on AP and RDX. <b>2023</b> , 317, 123656	O

272	A novel approach for determination of nucleation rates and interfacial energy of metallic magnesium nanoclusters at high temperature using non-isothermal TGA models. <b>2023</b> , 265, 118223	О
271	The role of rare earth elements in tailorable thermal and magnetocaloric properties of RE-Co-Al (RE´=´Gd, Tb, and Dy) metallic glasses. <b>2023</b> , 600, 121992	O
270	Pyrolysis kinetics, thermodynamics, and interaction analysis of co-pyrolysis of bituminous coal and electrolytic aluminum solid waste. <b>2023</b> , 333, 126375	0
269	Miscibility, Thermal degradation and Rheological analysis of epoxy/MABS blends.	O
268	Chemical kinetics of catalytic/non-catalytic pyrolysis and gasification of solid plastic wastes. <b>2022</b> ,	0
267	Microstructural evaluation and mechanical properties of bulk nanostructured Al86Cu6Y6La2 (at.%) alloy produced by hot consolidation of amorphous melt-spun flakes. <b>2023</b> , 600, 122032	O
266	Anomalous Avrami index recorded during the non-isothermal crystallization of borotitanosilicate glass powders. <b>2023</b> , 600, 122008	O
265	Iron based oxygen-carrier-aided oxy-fuel combustion of coal char: Reactivity and oxygen transfer mechanism. <b>2023</b> , 333, 126445	O
264	Highly-dispersed nano-TiB2 derived from the two-dimensional Ti3CN MXene for tailoring the kinetics and reversibility of the Li-Mg-B-H hydrogen storage material. <b>2023</b> , 610, 155581	3
263	Optimization of the nucleating agent content for the obtaining of transparent fluormica glass-ceramics. <b>2022</b> ,	O
262	Synthesis of Pyridine Heterocyclic Low-Melting-Point Phthalonitrile Monomer and the Effects of Different Curing Agents on Resin Properties. <b>2022</b> , 14, 4700	1
261	Thermogravimetric analysis and kinetic modeling of the co-pyrolysis of a bituminous coal and poplar wood. <b>2022</b> ,	O
260	Thermal and electrical transport property study of direct vapour transport grown Cu2SnS3 single crystals. <b>2022</b> ,	O
259	Promising Oxygen- and Nitrogen-Rich Azidonitramino Ether Plasticizers for Energetic Materials. <b>2022</b> , 27, 7749	O
258	Preparation of HNS microspheres by rapid membrane emulsification. 2022,	O
257	Comparative study of different bis-citraconimides as anti-reversion agents in natural rubber. 009524432	211389
256	Big Data in a Nano World: A Review on Computational, Data-Driven Design of Nanomaterials Structures, Properties, and Synthesis.	0
255	Investigation of Thermal and Antimicrobial Properties of NiTiX (X = Ta, Ag, and Nb) Shape Memory Alloys.	O

254	Determination of ⊞o Iphase transformation kinetics in laser-powder bed fused TiBAlIISnIIZrIIMo-0.08Si and TiBAlIIV alloys. <b>2022</b> , 860, 144294	0
253	A Fancy Hydrangea Shape Bimetallic Ni-Mo Oxide of Remarkable Catalytic Effect for Hydrogen Storage of MgH2. <b>2022</b> ,	O
252	Crystallization Kinetics on Melt Spun and HPT-Processed Zr62Cu22Al10Fe5Dy1 Metallic Glass.	О
251	Microscopic mechanisms of Mn-doped CaCO3 heat carrier with enhanced optical absorption and accelerated decomposition kinetics for directly storing solar energy. <b>2023</b> , 250, 112103	О
250	Effect of neutron dose on the tritium release behavior of Li2TiO3D.5Li4SiO4 biphasic ceramic. <b>2022</b> ,	О
249	Thermal hazard and mechanism study of 5-(4-Pyridyl)tetrazolate (H4-PTZ). <b>2022</b> , 2, 1-8	О
248	Insight into kinetic and Thermodynamic Analysis methods for lignocellulosic biomass pyrolysis. <b>2023</b> , 202, 154-171	0
247	Synthesis and thermal properties of novel bismaleimides containing cardo and oxazine structures and the thermal transition behaviors of their polymer structures. <b>2023</b> , 719, 179401	О
246	Construction of a binary architecture of flower-like nickel phyllosilicate@zinc sulfide towards the robust, wear-resistant and thermal-stable epoxy nanocomposites. <b>2023</b> , 207, 110224	О
245	Decomposition behavior and kinetics of Beydili and Ihsangazi oil shale deposits (Turkiye) by TG-DTG-MS. <b>2023</b> , 221, 111260	О
244	Syntheses, crystal structures and thermal behavior of two new Sr(II) complexes derived from tetrazole-based carboxylic acids. <b>2023</b> , 546, 121317	0
243	Effects of biological pre-digestion of sewage sludge processed by fast pyrolysis on bio-oil yield and biochar toxicity. <b>2023</b> , 157, 149-158	О
242	Kinetic analysis of CO2 gasification of corn straw. <b>2023</b> , 203, 219-227	О
241	A sustainable lignin-based epoxy resin: Its preparation and combustion behaviors. <b>2023</b> , 192, 116151	О
240	Ultrasonic-promoted defect activation and structural rejuvenation in a La-based metallic glass. <b>2023</b> , 153, 107803	0
239	Effect of biaxial strain on grain growth in nanocrystalline films: Coupling between grain-boundary energy and strain energy. <b>2023</b> , 245, 118633	O
238	µAl-based reactive materials with improved energy efficiency by using the fluorine-containing oxidizer perfluoropolyether as an interfacial layer. <b>2023</b> , 248, 112554	0
237	A regenerative core-shell LTA@LDH adsorbent for indoor dehumidification and its improved adsorption performance. <b>2023</b> , 306, 122715	O

236	Hydrogen storage performances of La-Sm-Mg-Ni alloy prepared by casting and ball milling. <b>2023</b> , 174, 111165	O
235	A systematic study of the effect of graphene oxide and reduced graphene oxide on the thermal degradation behavior of acrylonitrile-butadiene rubber in air and nitrogen media. <b>2023</b> , 19, e01501	O
234	Evaluation and analysis of activation energy and aging life of polypropylene insulation material by TGA method. <b>2022</b> ,	0
233	Novel Rare-Earth Complexes Containing Amino and Sulfhydryl Groups for Natural Rubber Composites with Improved Antioxidative Properties. <b>2022</b> , 64, 688-698	O
232	Highly tunable E elaxation enables the tailoring of crystallization in phase-change materials. <b>2022</b> , 13,	1
231	Investigation of crystallization behavior of Hf26Be18Ti18Zr18Cu7.5Ni12.5 high mixing entropy amorphous alloys.	O
230	Using dynamic and adiabatic methods for thermal hazard evaluation of styrene bulk polymerization initiated by AIBN.	0
229	Effect of isostructural phase transition on cycling stability of ZrCo-based alloys for hydrogen isotopes storage. <b>2022</b> , 140571	1
228	Kinetics of poly(vinyl chloride) thermal and thermo-mechanical degradation in the presence of epoxidized plasticizer. Induction effect.	0
227	An in situ synchrotron X-ray study of reverse austenitic transformation in a metastable FeMnCo alloy.	O
226	A Review on Flaming Ignition of Solid Combustibles: Pyrolysis Kinetics, Experimental Methods and Modelling.	O
225	The Effect of Argon Plasma Surface Treatment on Poly(lactic-co-glycolic acid)/Collagen-Based Biomaterials for Bone Tissue Engineering. <b>2022</b> , 7, 218	O
224	Effect of inorganic salt on the thermal degradation of nitrocellulose and reaction mechanism of its mixture. <b>2022</b> ,	0
223	Effect of two imidazole ionic liquids on the thermal stability of cumene hydroperoxide.	O
222	The Status of Pyrolysis Kinetics Studies by Thermal Analysis: Quality Is Not as Good as It Should and Can Readily Be. <b>2022</b> , 2, 435-452	5
221	Characterization of Martensitic Transformation, Microstructure and a Kinetic Study of Ti-based High Temperature Shape Memory Alloy. <b>2022</b> , 17, 341-348	O
220	Energetic [1,2,5]oxadiazolo [2,3-a]pyrimidin-8-ium Perchlorates: Synthesis and Characterization. <b>2022</b> , 27, 8443	0
219	Investigation of combustion performance of tannery sewage sludge using thermokinetic analysis and prediction by artificial neural network. <b>2022</b> , 40, 102586	Ο

218	Curing Kinetics of Bioderived Furan-Based Epoxy Resins: Study on the Effect of the Epoxy Monomer/Hardener Ratio. <b>2022</b> , 14, 5322	0
217	A comprehensive thermo-kinetics devolatilization analysis of waste motor oil: Thermal degradation kinetics, kinetic model, thermodynamic analysis, and ANN. 1-13	O
216	Non-isothermal crystallization kinetics of amorphous electroless nickel-phosphorus alloy plating.	0
215	Structural, Thermal and Magnetic Analysis of Two Fe-X-B (X = Nb NiZr,Nb) Nanocrystalline Alloys. <b>2023</b> , 16, 155	O
214	Crystal Growth in Selle Chalcogenides: Overview of the Growth/Relaxation/Viscosity Interplay for Bulk Glasses and Thin Films.	0
213	Effect of multi-step annealing with different heating rates on magnetic properties of Fe-Si-B-P-Cu nano-crystalline alloy.	O
212	Heteroatom ternary-doped porous carbons derived from poly (cyclotriphosphazene-co-4,4-aminophenylether) microspheres as electrodes for supercapacitors.	O
211	Measurement of Pyrolysis Properties for Fire Spread Simulations of Spray Polyurethane Foam. <b>2022</b> , 36, 29-37	O
210	Spectral, Thermal Behavior, Molecular Modeling, and Antimicrobial Studies of Fuchsin Basic Hydrochloride. <b>2022</b> , 7,	0
209	Calorimetric studies of crystallization in Se76Te20Sn2Ge2 glass under heating/cooling mode. <b>2023</b> , 98, 015709	O
208	Enhanced performance of a bio-based diluent with both vinyl and epoxide groups for unsaturated polyester resin applications.	0
207	Effect of TiO2 content on crystallization behavior of CaOAl2O3BiO2InO glass-ceramic glaze. <b>2022</b> ,	O
206	Bio-Based Vitrimers from 2,5-Furandicarboxylic Acid as Repairable, Reusable, and Recyclable Epoxy Systems.	0
205	Process hazard and decomposition mechanism of benzoyl peroxide in the presence of incompatible substances. <b>2022</b> , 121146	O
204	Study on the Crystallization Behavior of Sb2Te Thin Films for Phase-Change Memory Applications.	0
203	Research on the vacuum aging performance of HTPB propellant based on the DSC method. <b>2022</b> , 2403, 012013	0
202	Boosting Laser-Ignited Combustion Performance of Energetic Materials with Low Sensitivity: Integration of Triazene-Bridged Triazole with Oxygen-Rich Moieties via Noncovalent Self-Assembly.	0
201	Comparative study on pyrolysis characteristics and kinetics of Indian almond fruit and Gracilaria changii seaweed by thermogravimetric analysis.	0

200	Sodium fluotitanate with the formation of multicomponent catalytic species for superior hydrogen storage of magnesium hydride. <b>2022</b> , 168605	o
199	Crystallization of LiNbO 3 and NaNbO 3 in niobiosilicate glassderamics.	О
198	Measurement of Pyrolysis Properties for Fire Spread Simulation of Cables. <b>2022</b> , 36, 38-47	O
197	Advanced isoconversional kinetic analysis of Fe2O3-2Al thermite reaction for plug and abandonment of oil wells. <b>2022</b> , 140725	1
196	Influence evaluation of ionic liquids on the alteration of nitrification waste for thermal stability. <b>2023</b> , 104977	0
195	Pyrolysis Kinetics of Byrsonima crassifolia Stone as Agro-Industrial Waste through Isoconversional Models. <b>2023</b> , 28, 544	O
194	Crystallization Kinetics, Properties of & Cordierite Based Glass-ceramics Prepared by Glass Powder Sintering. <b>2022</b> , 37, 1351	0
193	Comprehensive thermal analysis of a high stability CuZrAl bulk metallic glass subjected to high-pressure torsion.	О
192	Fast crystallization below the glass transition temperature in hyperquenched systems.	0
191	One-step preparation of glass-ceramics from a ferrochrome slag and an electrolytic manganese slag.	О
190	Kinetic study of the thermal and thermo-oxidative degradations of aromatic poly(ether sulfone) random copolymers bearing pendant carboxyl groups.	0
189	Advanced Fitting Method for the Kinetic Analysis of Thermogravimetric Data. <b>2023</b> , 28, 424	O
188	Is there interaction between forestry residue and crop residue in co-pyrolysis? Evidence from wood sawdust and peanut shell.	0
187	Elemental Redistribution During the Crystallization of Ge¶u¶e Thin Films for Phase-Change Memory. <b>2023</b> , 12, 014003	O
186	The first observation of 3,1-benzoxazine polymerization for developing high performance thermosets.	0
185	An investigation on the kinetic behavior and thermodynamic parameters of the oxy-fuel combustion of Brazilian agroindustrial residues. <b>2023</b> , 45,	o
184	Thermal stability of emerging N6-type energetic materials: kinetic modeling of simultaneous thermal analysis data to explain sensitivity trends.	0
183	Effects of Si on the microstructure, soft magnetic properties and bendability of rapidly-annealed nanocrystalline FeBiBP©u alloy ribbons. 2023, 168799	o

182	Flow, curing and mechanical properties of thermoset resins (wood-fiber blends for potential additive-manufacturing applications. 1-18	О
181	High-performance microwave dielectric glass-ceramic with fine secondary structure for ULTCC application. <b>2023</b> ,	O
180	Phase-structural transformation of erbium trihydride studied by thermal desorption spectroscopy. <b>2023</b> ,	О
179	Thermal studies of novel heat-resistant 3,6-dinitropyrazolo[4,3-c]pyrazole-based energetic materials. <b>2023</b> , 169, 105866	O
178	Kinetic Study of the Effective Thermal Polymerization of a Prebiotic Monomer: Aminomalononitrile. <b>2023</b> , 15, 486	O
177	The Effect of Polyepoxyphenylsilsesquioxane and Diethyl Bis(2-hydroxyethyl)aminomethylphosphonate on the Thermal Stability of Epoxy Resin. <b>2023</b> , 8, 2077-2084	O
176	Co-Pyrolysis Behavior, Kinetic and Mechanism of Waste-Printed Circuit Board with Biomass. <b>2023</b> , 11, 229	0
175	Non-isothermal crystallization kinetics of ethylene-tetrafluoroethylene copolymer using integral Avrami equation. <b>2023</b> ,	Ο
174	Bio-benzoxazine structural design strategy toward highly thermally stable and intrinsically flame-retardant thermosets. <b>2023</b> , 457, 141232	0
173	Study of a nearly Ni-free V-containing lean duplex stainless steel and the deformation mechanism. <b>2023</b> , 865, 144562	Ο
172	Determination of chemical kinetic parameters in Arrhenius equation of constant heating rate: Theoretical method. <b>2023</b> , 67, 461-472	0
171	Thermal exploration of sonochemically achieved SnS2 nanoparticles: Elemental, structural, and morphological investigations of TG residual SnS2. <b>2023</b> , 9, 100104	O
170	Thermal behavior and thermolysis mechanisms of graphene oxide-intercalated energetic complexes of carbohydrazide. <b>2023</b> , 9, 100106	0
169	Effects of typical additives on the thermal stability of ammonium peroxydisulfate. <b>2023</b> , 82, 104974	O
168	Mitigating distortions during debinding of a monolithic solid oxide fuel cell stack using a multiscale, multiphysics model. <b>2023</b> , 43, 1992-2001	O
167	Recovery of rare earths, lithium, and fluorine from rare earth molten salt electrolytic slag by mineral phase reconstruction combined with vacuum distillation. <b>2023</b> , 310, 123105	O
166	Multilevel resistance state tuned by change in crystallization mode of superlattice-like Sb/Si3N4 films. <b>2023</b> , 161, 112152	О
165	Calorimetric Studies of Phase Transformations in FeNi Alloys. <b>2022</b> , 123, 971-978	Ο

164	Synthesis, Characterization, Optical and Thermal Properties of P(NVC-co-BZMA) Copolymer and Its ZnO Composites. <b>2022</b> , 9, 526-536	О
163	Mechanistic understanding of the superior catalytic effect of Al65Cu20Fe15 quasicrystal on de/re-hydrogenation of NaAlH4. <b>2022</b> ,	О
162	Magnetic cork particles as reinforcement in an epoxy resin: effect of size and amount on thermal properties.	О
161	Thermal arrest analysis of the reverse martensitic transformation in a Ni55Fe19Ga26 Heusler alloy obtained by melt-spinning.	О
160	Kinetics and the Effect of Thermal Treatments on the Martensitic Transformation and Magnetic Properties in Ni49Mn32Ga19 Ferromagnetic Shape Memory Ribbons. <b>2023</b> , 9, 7	О
159	Acrylic Rubber-Reinforced Halloysite Nanotubes/Carbon Black Hybrid Fillers for Oil Seal Applications: Thermal Stability and Dynamic Mechanical Properties. <b>2022</b> , 2022, 1-11	О
158	Cryo-Milled Nickel Aluminum Nanostructured Composites: Bifurcated Ignition Mode. 2022, 31, 236-246	О
157	PEO Coatings Modified with Halloysite Nanotubes: Composition, Properties, and Release Performance. <b>2023</b> , 24, 305	1
156	RDX crystals with high sphericity prepared by resonance acoustic mixing assisted solvent etching technology. <b>2023</b> ,	0
155	The Chemical Micromechanism of Energetic Material Initiation. 2023, 567-623	О
154	The relation between the glass forming ability and nucleation kinetics of metastable quasicrystals in MgInII b liquid. <b>2023</b> , 168930	0
153	Graphene Oxide-Intercalated Tetrazole-Based Coordination Polymers: Thermally Stable Hybrid Energetic Crystals with Enhanced Photosensitivity. <b>2023</b> , 39, 1957-1967	О
152	Thermochemical Energy Storage in Barium Carbonate Enhanced by Iron (III) Oxide.	О
151	Preparation of Novel Composites of Polyvinyl Alcohol Containing Hesperidin Loaded ZnO Nanoparticles and Determination of Their Biological and Thermal Properties.	О
150	Study of the Kinetics of Reduction of IrO2 on TiO2 (Anatase) by Temperature-Programmed Reduction. <b>2023</b> , 11, 66	0
149	Thermal analysis of novel third-generation phase-change materials with zinc as a chemical modifier. <b>2023</b> , 13, 3602-3611	О
148	Clathrates of CL -20: Thermal Decomposition and Combustion. <b>2023</b> , 107-128	О
147	Modified oligoether-diamine synthesis for the preparation of crystallizable polymers based on epoxyurethane oligomers. <b>2023</b> , 78, 17-23	О

146	Experimental and computational investigations on ring-opening polymerization mechanisms of amide-functional benzoxazines.	Ο
145	Isotope effect on hydrogen storage properties of Ti and Nb co-substituted ZrCo alloy. 2023,	Ο
144	Advanced one-dimensional modeling of thermite reaction for thermal plug and abandonment of oil wells. <b>2023</b> , 205, 123913	0
143	Introduction. <b>2012</b> , 1-15	O
142	Thermomechanical Characterization Of Organo-Clay Epoxy Nanocomposites for Use in Civil Infrastructure. <b>2022</b> , 61, 220-229	O
141	On the pyrolysis characteristic parameters of four flame-retardant classes of PVC sheathless cable insulation materials. <b>2023</b> , 170, 105901	O
140	Improved Combustion Performance of Fluororubber-Coated Micro-Nano Composite Aluminum Powder. <b>2023</b> , 13, 556	0
139	Investigation of Crystallization Kinetics of Na 2 ZnP 2 O 7 Glass Using XRD and DTA Analysis.	Ο
138	Thermal decomposition, flame propagation, and combustion reactions behaviours of stearic acid by experiments and molecular dynamic simulation. <b>2023</b> , 461, 141906	Ο
137	Pyrolysis kinetics and conversion of pomegranate peels into porous carbon.	O
136	Value-added long-chain aliphatic compounds obtained through pyrolysis of phosphorylated chitin. <b>2023</b> , 238, 124130	0
135	Hydrogen embrittlement characteristics in cold-drawn high-strength stainless steel wires. <b>2023</b> , 216, 111109	O
134	Thermodegradation of naturally decomposed forest logging residues: Characteristics, kinetics, and thermodynamics. <b>2023</b> , 376, 128821	O
133	Determination of cure kinetic parameters and thermal stability of benzoxazine coating modified by poly (bisphenol-A borate). <b>2023</b> , 178, 107465	O
132	Roles of the grain-boundary characteristics and distributions on hydrogen embrittlement in face-centered cubic medium-entropy VxCr1-xCoNi alloys. <b>2023</b> , 873, 145028	0
131	Thermokinetic study of intermetallic phase formation in an Al/Cu multilayer thin film system. <b>2023</b> , 28, 101747	O
130	Effect of Mo addition on thermal stability and magnetic properties in FeSiBPCu nanocrystalline alloys. <b>2023</b> , 609, 122279	0
129	The critical condition and kinetics of interaction between residual char and slag in the coal slagging gasifier. <b>2023</b> , 341, 127644	Ο

128	Flexible textural design of ZSM-5 zeolite adsorbent from coal fly ash via solvent-free method for toluene elimination. <b>2023</b> , 11, 109589	O
127	Evading strength-ductility trade-off in directed energy deposited precipitation hardenable stainless steels: A pathway through precipitation kinetics modeling, design of heat treatment, and evolution of clusters. <b>2023</b> , 35, 105934	O
126	A3 polycondensation: A multicomponent step-growth polymerization reaction for the synthesis of polymeric propargylamines. <b>2023</b> , 191, 112056	О
125	Crystallization kinetics of Hf28Be18Ti17Zr17Cu7.5Ni12.5 high-entropy bulk metallic glass. <b>2023</b> , 724, 179497	O
124	Establishing TA-Pb/Cu and SA-Pb/Cu interface catalyst shells on HMX surfaces via in situ coprecipitation to ameliorate the performances of HMX. <b>2023</b> , 16, 104720	1
123	1,1-Diamino-2,2-dinitroethylene: The riddles of thermal decomposition and combustion. <b>2023</b> , 177, 111275	O
122	Nucleation/growth design by thermo-kinetic partition. 2023, 155, 72-81	0
121	Prominent Erelaxation and stress relaxation decoupling phenomenon in Gd-Ni-Al metallic glasses. <b>2023</b> , 948, 169629	O
120	Novel energetic salts of N-methylene-C-bridged nitrogen-rich heterocycle 5-((5-amino-tetrazol-1-yl)methyl)-1,2,4-triazole-3,4-diamine: Syntheses, characterization, and properties. <b>2023</b> , 1285, 135471	О
119	Crystallization sequence of an (Al86Ni9La5)98Si2 amorphous alloy under continuous heating. <b>2023</b> , 610, 122310	O
118	Development of Fe-based diluted nanocrystalline alloy by substituting C for P in FeSiBCCu system. <b>2023</b> , 952, 170012	O
117	Microstructure, Non-isothermal Crystallization Kinetics and Magnetic Behaviour Study of [FeCoNi100-x(SiMn)x] High Entropy Amorphous Alloys Synthesized by Mechanical Alloying.	O
116	Impact of Gd minor alloying on the crystallization kinetics of Pd40Ni40P20 bulk metallic glass. <b>2023</b> , 609, 122290	O
115	Bioenergy potential of Saccharum bengalense through pyrolysis, reaction kinetics, TG-FTIR-GCMS analysis of pyrolysis products, and validation of the pyrolysis data through machine learning. <b>2023</b> , 465, 142930	O
114	Investigation of metal amorphous nanocomposite soft magnetic alloys in the (FexNiyCo100☑-y)80B14Nb4Si2 system. <b>2023</b> , 948, 169647	О
113	Grain size dependence of thermally induced oxidation in zirconium carbide. <b>2023</b> , 58, 2439-2455	O
112	Synthesis and curing properties of fluorinated curing agent for epoxy resin based on natural soybean isoflavones. <b>2023</b> , 184, 105511	0
111	Enhancement of hydrogen storage properties from amorphous Mg85Ni5Y10 alloy. <b>2023</b> , 605, 122167	O

110	Effect of Cr and Mo Contents on Hydrogen Embrittlement of Tempered Martensitic Steels. <b>2022</b> , 32, 466-473	О
109	Effect of curing degree on forming of clinch-adhesive joint. 1-27	О
108	Thermal analysis, kinetic behavior, reaction modeling, and comprehensive pyrolysis index of soybean stalk pyrolysis.	O
107	Can Severe Plastic Deformation Tune Nanocrystallization in Fe-Based Metallic Glasses?. <b>2023</b> , 16, 1260	Ο
106	A combined kinetic analysis for thermal characteristics and reaction mechanism based on non-isothermal experiments: The case of poly(vinyl alcohol) pyrolysis. <b>2023</b> , 39, 101692	O
105	Insights into anhydride-cured epoxy resin system using dynamic chemo-rheological modeling.	Ο
104	Investigation of Catalytic Co-Pyrolysis Characteristics and Synergistic Effect of Oily Sludge and Walnut Shell. <b>2023</b> , 20, 2841	O
103	Non-isothermal crystallization kinetics study of sodium niobium phosphate glasses. <b>2023</b> , 605, 122154	O
102	Hydrogen Diffusion and Trapping in Low-Alloy Tempered Martensitic Steels. 2023, 54, 1159-1173	0
101	Phosphaphenanthrene-Functionalized Benzoxazines Bearing Intramolecularly Hydrogen-Bonded Phenolic Hydroxyl: Synthesis, Structural Characterization, Polymerization Mechanism, and Property Investigation. <b>2023</b> , 56, 1311-1323	1
100	Carbon composite support improving catalytic effect of NbC nanoparticles on the low-temperature hydrogen storage performance of MgH2. <b>2023</b> , 150, 65-74	Ο
99	Role of molybdenum on the structure and properties of A2O-P2O5MoO3 (A´=´Na, Ag, Rb, Cs) glasses. <b>2023</b> , 606, 122193	O
98	Breaking strength-ductility trade-off in laser-powder bed fused Fell r Mill maraging stainless steel: Controlled precipitation and preserved dislocations. <b>2023</b> , 868, 144761	0
97	A highly thermally stable benzoxazine resin derived from norbornene and natural renewable tyramine and furfurylamine. <b>2023</b> , 187, 111895	O
96	Thermal behaviour of hydrochar derived from hydrothermal carbonization of food waste using leachate as moisture source: Kinetic and thermodynamic analysis. <b>2023</b> , 373, 128734	O
95	Heat-Resistant Polymer Networks Prepared from Processable Resveratrol-Based Propargyl Ether Monomers. <b>2023</b> , 5, 1737-1746	O
94	Self-catalytic phthalonitrile polymer with improved processing performance and long-term thermal stability. 095400832311568	О
93	Fusion calorimetric experiments and QSPR modeling to inversely explore the accuracy of thermodynamic methods: A case study of the apparent activation energies of 18 aromatic nitro compounds. <b>2023</b> , 172, 659-680	O

92	Influence of the milling conditions on the compressive strength of Ti/TiC composite materials sintered at atmospheric pressure. <b>2023</b> , 49, 17405-17414	О
91	High dispersity and ultralight PVP-mediated Al/MFe2O4/g-C3N4 (M´=´Cu, Mg, Ni) nanothermites synthesized by a novel sol-freeze-drying technology. <b>2023</b> , 34, 103976	O
90	Experimental Study of Curing Temperature Effect on Mechanical Performance of Carbon Fiber Composites with Application to Filament Winding Pressure Vessel Design. <b>2023</b> , 15, 982	0
89	Phase-change materials based on amorphous equichalcogenides. <b>2023</b> , 13,	O
88	A Novel Approach to Analysis of Complex Crystallization Behavior in Zr-Based Bulk Metallic Glass by Non-isothermal Kinetics Studies. <b>2023</b> , 54, 1428-1442	О
87	Design and synthesis of anhydride-terminated imide oligomer containing phosphorus and fluorine for high-performance flame-retarded epoxy resins. <b>2023</b> , 461, 142063	O
86	Catalytic co-pyrolysis of cellulosic ethanolprocessing residue with high-density polyethylene over biomass bottom ash catalyst.	О
85	Process and performance of DAAF microspheres prepared by continuous integration from synthesis to spherical coating based on microfluidic system. <b>2023</b> ,	O
84	Enhancement of thermal properties of Al/ MoO 3 thermite by electrostatic spraying.	0
83	Thermal Degradation Studies and Machine Learning Modelling of Nano-Enhanced Sugar Alcohol-Based Phase Change Materials for Medium Temperature Applications. <b>2023</b> , 16, 2187	O
82	Effect of the milling conditions on the decomposition kinetics of gibbsite. 2023,	0
81	Thermodynamic and Kinetic Analyses of Corn Crop Residue. <b>2023</b> , 206-217	O
80	Mechanical properties and non-isothermal crystallization kinetics of novel Ti-based high-entropy bulk metallic glasses. <b>2023</b> , 23, 5939-5952	0
79	Sub-nL thin-film differential scanning calorimetry chip for rapid thermal analysis of liquid samples. <b>2023</b> , 23, 1926-1934	O
78	Reaction Mechanism and Kinetics of Columbite-to-Pyrochlore Conversion Roasted in Different Atmosphere. <b>2023</b> , 75, 1089-1096	0
77	A Review of Degradation and Life Prediction of Polyethylene. <b>2023</b> , 13, 3045	O
76	Comparison of Thermodynamic Parameters and Corrosion Behaviors of Ti50Ni25Nb25 and Ti50Ni25Ta25 Shape Memory Alloys. <b>2022</b> , 123, 1427-1435	О
75	Ignition and explosion characteristics of olive-derived biomasses. <b>2023</b> , 420, 118386	1

74	Thermal decomposition study of cadmium telluride (CdTe). 2023,	O
73	DSC of Low Molecular Mass Organic Materials and Pharmaceuticals. <b>2023</b> , 485-658	O
72	Kinetic Model of Urea-Related Deposit Reactions. <b>2023</b> , 28, 2340	0
71	Non-isothermal crystallization behavioral analysis of detonation sprayed Fe-based amorphous coating. <b>2023</b> , 23, 6115-6126	O
70	Shear strain rate sensitivity and crystallisation kinetics investigation in melt spun Cu64Zr36 binary metallic glass. <b>2023</b> , 65, 389-398	O
69	A Comprehensive Study of Sn-Ga2Te3-SnTe Amorphous Alloys: Glass Formation and Crystallization Kinetics. <b>2023</b> , 13, 532	О
68	Effects of silicone resins on copolymerization of acrylated epoxidized soybean oil. 2023, 63, 1323-1333	0
67	Strength distributions of laminated FeNi-based metal amorphous nanocomposite ribbons. <b>2023</b> , 57, 1653-1665	O
66	Non-isothermal crystallization kinetics of CaO-SiO2-B2O3-TiO2 glass studied by differential thermal analysis in the case of lite saturation (12023, 49, 19346-19354)	O
65	Thermo-Rheological Analysis and Kinetic Modeling of Thermal and Thermo-Oxidative Degradation of Polyethylene. <b>2023</b> , 191-213	O
64	Mechanisms and kinetics of zinc and iron separation enhanced by calcified carbothermal reduction for electric arc furnace dust. <b>2023</b> , 40, 975-985	O
63	Effects of Metal Borohydrides on the Dehydrogenation Kinetics of the LiMgN⊞ Hydrogen-Storage System. <b>2023</b> , 127, 5255-5261	Ο
62	Investigations on Kinetics and Mechanisms of CaCO3 Calcination in Calcium Looping. 2023, 62, 4851-4863	0
61	Thermal decomposition reaction kinetics and storage life prediction of polyacrylate pressure-sensitive adhesive. <b>2023</b> , 23,	O
60	Thermochemistry, Tautomerism, and Thermal Stability of 5,7-Dinitrobenzotriazoles. <b>2023</b> , 24, 5330	0
59	Paraffin-Multilayer Graphene Composite for Thermal Management in Electronics. <b>2023</b> , 16, 2310	O
58	Evaluation of the activity of natural phenolic antioxidants, extracted from industrial coffee residues, on the stability of poly(1,4-butylene succinate) formulations.	0
57	Influence of Monomer Sequence on the Cyclization Behavior of Poly(acrylonitrile-co-acrylamide). <b>2023</b> , 13, 3734	Ο

56	Effect of Gold Nanoparticles on the Physical Properties of an Epoxy Resin. 2023, 24, 5638	Ο
55	Anelastic Effects in Feta and Feta-Based Alloys: A Review. <b>2023</b> , 16, 2365	O
54	Gas-phase polymerization of ultra-high molecular weight polyethylene with decreased entanglement density.	0
53	Study on the thermal stability and combustion performance of polyurethane foams modified with manganese phytate. <b>2023</b> ,	O
52	Toward Improving the Thermal Stability of Negative Electrode Materials: Differential Scanning Calorimetry and In Situ High-Temperature X-ray Diffraction/X-ray Absorption Spectroscopy Studies of Li2ZnTi3O8 and Related Compounds. <b>2023</b> , 15, 15605-15615	0
51	Greening Biobased Polybenzoxazine Network: Three Benefits in One Go. <b>2023</b> , 5, 2971-2982	O
50	An efficient catalytic and solvent-free method for the synthesis of mono-organofunctionalized polymethylhydrosiloxane derivatives. <b>2023</b> , 34, 1979-1989	0
49	Salt Hydrate Adsorption Material-Based Thermochemical Energy Storage for Space Heating Application: A Review. <b>2023</b> , 16, 2875	O
48	Synthesis, the structural and thermal stability of LiCo11kFexPO4.	Ο
47	Effects of residual dimethyl sulfoxide on the storage performance of nano-TATB. <b>2023</b> , 4, 49-55	O
46	Effect of polytetrafluoroethylene (PTFE) emulsion impregnation coating on filtration performance and thermal property of polyphenylene sulfide (PPS) needle felt.	0
45	An effective catalyst carrier SiO2: Enhancing catalytic and combustion properties of CuFe2O4 on energetic components. <b>2023</b> ,	O
44	Hžl <sup>-</sup> kat <del>ľa</del> Brma ve mekaniksel alaBhlama yBtemleri ile Betilen Al85Ni5Fe5Nd5 alaBh <del>ññ</del> yap <del>š</del> al ve <del>šš</del> al Bellikleri.	O
43	The role of tri-n-butyltin(IV) n-butoxide/aluminum(III) tri-s-butoxide mixed initiators in the non-isothermal ring-opening polymerization of $\bar{\mu}$ -caprolactone: from small-scale to larger-scale polymerization.	O
42	Thermal decomposition characteristics and study of the reaction kinetics of tea-waste.	O
41	Synergy between manganese phytate and expandable graphite on thermal stability and combustion behavior of rigid polyurethane foam. <b>2023</b> , 34, 1856-1867	O
40	Characterization, Kinetic Using Deconvolution Techniques and Thermodynamic Study of Synthetic MgHPO4BH2O. <b>2023</b> , 13, 567	0
39	Enhancement of hydrogen embrittlement resistance in a Fe-18Mn-0.6C twinning induced plasticity steel by copper alloying. <b>2023</b> , 118888	Ο

38	Hydrides for Efficient Hydrogen Storage. <b>2022</b> , 1-46	О
37	Crystallization Kinetics Analysis of the Binary Amorphous Mg72Zn28 Alloy. <b>2023</b> , 16, 2727	O
36	Evaluation of oil palm waste mild pyrolysis kinetic parameters. 2023,	О
35	Comparative study on thermal decomposition of stromatolite and micrite using the technique of TG and DSC.	О
34	Vanillin-Based Epoxy Vitrimers: Looking at the Cystamine Hardener from a Different Perspective. <b>2023</b> , 11, 6021-6031	О
33	Thermal Analysis and Thermal Reactions of Smectites: a Review of Methodology, Mechanisms, and Kinetics.	O
32	DTA/TG Study of the Interaction in the Nickel Nitrate HexahydrateHexamethylentetramine System. <b>2023</b> , 17, 122-127	О
31	Investigating the Effect of Curing Activators on the Cure Kinetics of Acrylonitrile <b>B</b> utadiene Rubber Filled with Graphene Oxide and Reduced Graphene Oxides Nanocomposites. <b>2023</b> , 2023, 1-21	O
30	Influence of Si and Mn on the Phase Formation, Crystallization Kinetics, and Enhanced Magnetic Properties of Mechanically Alloyed NiCoFe(SiMn)x High Entropy Amorphous Alloys.	О
29	Where did you come from and where are you heading to, thermal analysis of heating effects?.	O
28	Preparation of Spherical HMX/DMF Solvates, Spherical HMX Particles, and HMX@NTO Composites: A Way to Reduce the Sensitivity of HMX. <b>2023</b> , 8, 14041-14046	О
27	Thermal runaway risk of 2,2?-azobis(2-methylbutyronitrile) under the process situations.	O
26	Nanostructuring of Mg-Based Hydrogen Storage Materials: Recent Advances for Promoting Key Applications. <b>2023</b> , 15,	О
25	Synthesis, characterization, thermokinetic analysis and biological application of novel allyl glucosamine based glycopolymers. <b>2023</b> , 26, 117-131	O
24	Mechanical alloying of Mg0.8-XTi0.2 and study the effect of adding ( $x = 0.2$ wt%) transition metal like Sc, Zr, or Nb on their phase transitions, activation energy, and hydrogen storage properties. <b>2023</b> , 13, 11415-11423	О
23	Summary of Investigations in Regard to the Kinetics of Absorbed Water Dehydration from Different Hydrogels.	О
22	Thermal Degradation Behavior of a Poly(n-Butylmethacrylate-Co-Acrylic Acid)/Organobentonite Nanocomposite: Non-Isothermal Decomposition Kinetic Study. <b>2023</b> , 408,	О
21	Thermal Stability and Non-Isothermal Kinetic Analysis of Ethylene <b>B</b> ropylene <b>D</b> iene Rubber Composite. <b>2023</b> , 15, 1890	0

20	Design and synthesis of polyetherimides as a flame-retarded thermolatent hardener for high-performance epoxy thermosets. <b>2023</b> , 259, 110754	0
19	Crystallization kinetics analysis of Ge18BixSe82-x chalcogenide glasses alloys by using non-isothermal methods. <b>2023</b> , 611, 122334	O
18	Improving the thermal stability of polysulfidic crosslinks by hexamethylene-1, 6-bis (thiosulfate) disodium salt as the curing agent of natural rubber.	0
17	Cure cycle optimisation of structural epoxies used in composite civil infrastructure through the use of TTT diagrams. <b>2023</b> , 383, 131332	O
16	Thermo-catalytic pyrolysis of sawdust by a synthesized NiO/Al2O3 composite catalyst: investigation on its reaction mechanism, kinetics, and thermodynamics.	0
15	Stability Criteria for Self-Propagating Reaction Waves in Co/Al Multilayers.	O
14	Compatibility and thermokinetics studies of 4-amino triazolium picrate with various polymers.	O
13	Thermal cure kinetics of highly branched polyurea resins at different molar ratios.	O
12	Statistical Copolymers of NIVinylpyrrolidone and 2II hloroethyl Vinyl Ether via Radical RAFT Polymerization: Monomer Reactivity Ratios, Thermal Properties, and Kinetics of Thermal Decomposition of the Statistical Copolymers. <b>2023</b> , 15, 1970	0
11	Tuning the reactivity and energy release efficiency in aluminum alloy thermite by eutectic silicon. <b>2023</b> , 143113	O
10	Enhancing the hydrogen embrittlement resistance with cementite/VC multiple precipitates in high-strength steel. <b>2023</b> , 145084	0
9	Analysis of thermal decomposition of magnetic nanoparticles synthesized by reverse coprecipitation and partial oxidation of ferrous ions.	O
8	Impact of Positional Isomerism on Melting Point and Stability in New Energetic Melt-Castable Materials. <b>2023</b> , 127, 8887-8893	О
7	Thermal decomposition of calcium propionate: films and powders.	O
6	Complex thermokinetic characterization of polydioxanone for medical applications: Conditions for material processing. <b>2023</b> , 277, 125978	0
5	Improved hydrogen storage thermodynamics and kinetics of LaITeMgNi alloy by ball milling. <b>2023</b> , 179, 111417	O
4	Short-range order patterns in Mg66Zn29Ca5 metallic glass: Phase transformations and crystallization kinetics. <b>2023</b> , 613, 122390	O
3	Thermal runaway mechanisms and kinetics of benzene nitrification system based on microcalorimetry experiments and ReaxFF molecular dynamics simulation. <b>2023</b> , 725, 179522	O

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