

Konstantinos Chrissafis

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100 papers	3,986 citations	32 h-index	62 g-index
103 ext. papers	4,448 ext. citations	4.3 avg, IF	5.47 L-index

#	Paper	IF	Citations
100	ICTAC Kinetics Committee recommendations for collecting experimental thermal analysis data for kinetic computations. <i>Thermochimica Acta</i> , 2014 , 590, 1-23	2.9	713
99	Can nanoparticles really enhance thermal stability of polymers? Part I: An overview on thermal decomposition of addition polymers. <i>Thermochimica Acta</i> , 2011 , 523, 1-24	2.9	320
98	Fabrication of alginate-gelatin crosslinked hydrogel microcapsules and evaluation of the microstructure and physico-chemical properties. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 1470-1482	7.3	250
97	Thermal degradation mechanism of poly(ethylene succinate) and poly(butylene succinate): Comparative study. <i>Thermochimica Acta</i> , 2005 , 435, 142-150	2.9	181
96	Comparative study of the effect of different nanoparticles on the mechanical properties and thermal degradation mechanism of in situ prepared poly(ε-caprolactone) nanocomposites. <i>Composites Science and Technology</i> , 2007 , 67, 2165-2174	8.6	166
95	Thermal and dynamic mechanical behavior of bionanocomposites: Fumed silica nanoparticles dispersed in poly(vinyl pyrrolidone), chitosan, and poly(vinyl alcohol). <i>Journal of Applied Polymer Science</i> , 2008 , 110, 1739-1749	2.9	129
94	Unique pore selectivity for Cs ⁺ and exceptionally high NH ₄ ⁺ exchange capacity of the chalcogenide material K ₆ Sn[Zn ₄ Sn ₄ S ₁₇]. <i>Journal of the American Chemical Society</i> , 2006 , 128, 8875-83	16.4	127
93	Thermal degradation mechanism of HDPE nanocomposites containing fumed silica nanoparticles. <i>Thermochimica Acta</i> , 2009 , 485, 65-71	2.9	113
92	Furan-based polyesters from renewable resources: Crystallization and thermal degradation behavior of poly(hexamethylene 2,5-furan-dicarboxylate). <i>European Polymer Journal</i> , 2015 , 67, 383-396	5.2	97
91	Characterization and thermal degradation mechanism of isotactic polypropylene/carbon black nanocomposites. <i>Thermochimica Acta</i> , 2007 , 465, 6-17	2.9	87
90	Effect of molecular weight on thermal degradation mechanism of the biodegradable polyester poly(ethylene succinate). <i>Thermochimica Acta</i> , 2006 , 440, 166-175	2.9	84
89	Comparative study of the effect of different nanoparticles on the mechanical properties, permeability, and thermal degradation mechanism of HDPE. <i>Journal of Applied Polymer Science</i> , 2009 , 114, 1606-1618	2.9	81
88	Synthesis, characterization and thermal analysis of urea-formaldehyde/nanoSiO ₂ resins. <i>Thermochimica Acta</i> , 2012 , 527, 33-39	2.9	75
87	Thermal degradation kinetics and decomposition mechanism of polyesters based on 2,5-furandicarboxylic acid and low molecular weight aliphatic diols. <i>Journal of Analytical and Applied Pyrolysis</i> , 2015 , 112, 369-378	6	73
86	In situ prepared PET nanocomposites: Effect of organically modified montmorillonite and fumed silica nanoparticles on PET physical properties and thermal degradation kinetics. <i>Thermochimica Acta</i> , 2010 , 500, 21-29	2.9	67
85	β-Nucleated Polypropylene: Processing, Properties and Nanocomposites. <i>Polymer Reviews</i> , 2015 , 55, 596-629	14	61
84	Nanocomposites of isotactic polypropylene with carbon nanoparticles exhibiting enhanced stiffness, thermal stability and gas barrier properties. <i>Composites Science and Technology</i> , 2008 , 68, 933-943	8.6	57

83	Kinetics of nucleation and crystallization in poly(butylene succinate) nanocomposites. <i>Polymer</i> , 2014 , 55, 6725-6734	3.9	55
82	Hybrid hydrogels based on keratin and alginate for tissue engineering. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 5441-5451	7.3	51
81	Multiresponsive polymer conetworks capable of responding to changes in pH, temperature, and magnetic field: synthesis, characterization, and evaluation of their ability for controlled uptake and release of solutes. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 2139-47	9.5	48
80	Crystallization and melting of propylene/ethylene random copolymers. Homogeneous nucleation and nucleating agents. <i>European Polymer Journal</i> , 2013 , 49, 1577-1590	5.2	43
79	Nonisothermal melt-crystallization kinetics for in situ prepared poly(ethylene terephthalate)/monmorilonite (PET/OMMT). <i>Thermochimica Acta</i> , 2011 , 521, 161-169	2.9	42
78	Effect of crystalline structure of polypropylene random copolymers on mechanical properties and thermal degradation kinetics. <i>Thermochimica Acta</i> , 2012 , 543, 288-294	2.9	41
77	Microstructural characterization and comparative evaluation of physical, mechanical and biological properties of three ceramics for metal-ceramic restorations. <i>Dental Materials</i> , 2008 , 24, 1362-73	5.7	38
76	Nucleated propylene/ethylene random copolymer filled with multi-walled carbon nanotubes: Mechanical, thermal and rheological properties. <i>Polymer</i> , 2014 , 55, 3758-3769	3.9	37
75	Effect of different nanoparticles on thermal decomposition of poly(propylene sebacate)/nanocomposites: Evaluation of mechanisms using TGA and TGA-FTIR/GC/MS. <i>Journal of Analytical and Applied Pyrolysis</i> , 2012 , 96, 92-99	6	36
74	Thermal decomposition of poly(propylene sebacate) and poly(propylene azelate) biodegradable polyesters: Evaluation of mechanisms using TGA, FTIR and GC/MS. <i>Journal of Analytical and Applied Pyrolysis</i> , 2011 , 92, 123-130	6	36
73	Non-isothermal crystallization kinetic of poly(ethylene terephthalate)/fumed silica (PET/SiO ₂) prepared by in situ polymerization. <i>Thermochimica Acta</i> , 2010 , 510, 103-112	2.9	36
72	Hydrogel matrices based on elastin and alginate for tissue engineering applications. <i>International Journal of Biological Macromolecules</i> , 2018 , 114, 614-625	7.9	33
71	Microscopic observation and micromechanical modeling to predict the enhanced mechanical properties of multi-walled carbon nanotubes reinforced crosslinked high density polyethylene. <i>Carbon</i> , 2014 , 67, 475-487	10.4	33
70	Effect of maleic anhydride on the mechanical and thermal properties of hemp/high-density polyethylene green composites. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015 , 121, 93-105	4.1	32
69	Factors controlling the enhanced mechanical and thermal properties of nanodiamond-reinforced cross-linked high density polyethylene. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 11341-52	3.4	32
68	Isotactic Polypropylene/Multi-Walled Carbon Nanotube Nanocomposites: The Effect of Modification of MWCNTs on Mechanical Properties and Melt Crystallization. <i>Macromolecular Chemistry and Physics</i> , 2013 , 214, 2415-2431	2.6	29
67	Crystallization and Melting Behavior of Poly(Butylene Succinate) Nanocomposites Containing Silica-Nanotubes and Strontium Hydroxyapatite Nanorods. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 678-692	3.9	28
66	Kinetics study of cold-crystallization of poly(ethylene terephthalate) nanocomposites with multi-walled carbon nanotubes. <i>Thermochimica Acta</i> , 2009 , 493, 68-75	2.9	26

65	Oxidized multiwalled carbon nanotubes as effective reinforcement and thermal stability agents of poly(lactic acid) ligaments. <i>Journal of Applied Polymer Science</i> , 2010 , 118, 2712-2721	2.9	26
64	Soft-matrices based on silk fibroin and alginate for tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2016 , 93, 1420-1431	7.9	26
63	Compatibility study between trandolapril and natural excipients used in solid dosage forms. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013 , 111, 2109-2115	4.1	25
62	Effect of nanofiller size and shape on the solid state microstructure and thermal properties of poly(butylene succinate) nanocomposites. <i>Thermochimica Acta</i> , 2014 , 590, 181-190	2.9	24
61	Competitive crystallization of a propylene/ethylene random copolymer filled with a nucleating agent and multi-walled carbon nanotubes. Conventional and ultrafast DSC study. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 14875-84	3.4	24
60	Synthesis, characterization, and thermal degradation mechanism of fast biodegradable PPSu/PCL copolymers. <i>Journal of Polymer Science Part A</i> , 2007 , 45, 5076-5090	2.5	24
59	Thermal degradation kinetics and decomposition mechanism of PBSu nanocomposites with silica-nanotubes and strontium hydroxyapatite nanorods. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 4830-42	3.6	23
58	Sol-Gel Derived Mg-Based Ceramic Scaffolds Doped with Zinc or Copper Ions: Preliminary Results on Their Synthesis, Characterization, and Biocompatibility. <i>International Journal of Biomaterials</i> , 2016 , 2016, 3858301	3.2	23
57	Thermal degradation kinetics and decomposition mechanism of two new aliphatic biodegradable polyesters poly(propylene glutarate) and poly(propylene suberate). <i>Thermochimica Acta</i> , 2010 , 505, 59-68	2.9	22
56	Towards the synthesis of an Mg-containing silicate glass-ceramic to be used as a scaffold for cementum/alveolar bone regeneration. <i>Ceramics International</i> , 2014 , 40, 16287-16298	5.1	21
55	Amino-Functionalized Multiwalled Carbon Nanotubes Lead to Successful Ring-Opening Polymerization of Poly(ϵ -caprolactone): Enhanced Interfacial Bonding and Optimized Mechanical Properties. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 11683-94	9.5	20
54	SEM observations and differential scanning calorimetric studies of new and sterilized nickel-titanium rotary endodontic instruments. <i>Journal of Endodontics</i> , 2006 , 32, 675-9	4.7	20
53	Melt-crystallization mechanism of poly(ethylene terephthalate)/multi-walled carbon nanotubes prepared by in situ polymerization. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009 , 47, 1452-1466	2.6	18
52	In situ prepared PBSu/SiO ₂ nanocomposites. Study of thermal degradation mechanism. <i>Thermochimica Acta</i> , 2009 , 495, 120-128	2.9	17
51	Synergistic Effect of Functionalized Silica Nanoparticles and a Nucleating Agent for the Improvement of the Mechanical Properties of a Propylene/Ethylene Random Copolymer. <i>Macromolecular Materials and Engineering</i> , 2014 , 299, 707-721	3.9	16
50	A different approach for the study of the crystallization kinetics in polymers. Key study: poly(ethylene terephthalate)/SiO ₂ nanocomposites. <i>Polymer International</i> , 2010 , 59, 1630-1638	3.3	16
49	Effect of MWCNTs and their modification on crystallization and thermal degradation of poly(butylene naphthalate). <i>Thermochimica Acta</i> , 2017 , 656, 59-69	2.9	14
48	Thermal Decomposition Kinetics and Mechanism of In-Situ Prepared Bio-based Poly(propylene 2,5-furan dicarboxylate)/Graphene Nanocomposites. <i>Molecules</i> , 2019 , 24,	4.8	13

47	Synthesis, Thermal Properties and Decomposition Mechanism of Poly(Ethylene Vanillate) Polyester. <i>Polymers</i> , 2019 , 11,	4.5	13
46	Understanding the mechanical and thermal property reinforcement of crosslinked polyethylene by nanodiamonds and carbon nanotubes. <i>RSC Advances</i> , 2014 , 4, 45522-45534	3.7	13
45	Fibre length and loading impact on the properties of glass fibre reinforced polypropylene random composites. <i>Composite Structures</i> , 2021 , 263, 113678	5.3	13
44	Kinetics of Crystallization and Thermal Degradation of an Isotactic Polypropylene Matrix Reinforced with Graphene/Glass-Fiber Filler. <i>Molecules</i> , 2019 , 24,	4.8	12
43	Decomposition kinetic and mechanism of syndiotactic polystyrene nanocomposites with MWCNTs and nanodiamonds studied by TGA and Py-GC/MS. <i>Thermochimica Acta</i> , 2014 , 583, 15-24	2.9	12
42	Thermal analysis and in vitro bioactivity of bioactive glass/alumina composites. <i>Materials Characterization</i> , 2011 , 62, 118-129	3.9	12
41	Cold Crystallization Kinetics and Thermal Degradation of PLA Composites with Metal Oxide Nanofillers. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 3004	2.6	12
40	Effect of ethanol/TEOS ratios and amount of ammonia on the properties of copper-doped calcium silicate nanoceramics. <i>Journal of Materials Science: Materials in Medicine</i> , 2019 , 30, 98	4.5	11
39	Polycaprolactone/multi-wall carbon nanotube nanocomposites prepared by in situ ring opening polymerization: Decomposition profiling using thermogravimetric analysis and analytical pyrolysis-gas chromatography/mass spectrometry. <i>Journal of Analytical and Applied Pyrolysis</i> , 2015 , 115, 125-131	6	10
38	Urea-formaldehyde (UF) resins prepared by means of the aqueous phase of the catalytic pyrolysis of European beech wood. COST Action FP1105. <i>Holzforschung</i> , 2016 , 70, 1139-1145	2	10
37	Effect of clay modification on structure-property relationships and thermal degradation kinetics of Polypropylene/clay composite materials. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015 , 122, 393-406	4.1	8
36	Thermal Stability Study from Room Temperature to 1273 K (1000 °C) in Magnesium Silicide. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016 , 47, 5146-5158	2.3	8
35	Substantial enhancement of PP random copolymer's thermal stability due to the addition of MWCNTs and nanodiamonds: Decomposition kinetics and mechanism study. <i>Journal of Analytical and Applied Pyrolysis</i> , 2014 , 106, 71-80	6	8
34	Thermoanalytical, magnetic and structural study of Co(II) complexes with substituted salicylaldehydes and neocuproine. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012 , 109, 131-139	4.1	8
33	Thermal analysis and structural characterization of copper(II) complexes with salicylaldehydes. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015 , 120, 59-66	4.1	7
32	Unraveling the materials and techniques of post-Byzantine wall paintings: Is there a sole pictorial phase at the catholicon of Stomion, Central Greece?. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019 , 206, 328-339	4.4	7
31	The effect of high tempered firing cycle on the bioactive behavior of sol-gel derived dental porcelain modified by bioactive glass. <i>Journal of Sol-Gel Science and Technology</i> , 2012 , 63, 481-494	2.3	7
30	Multistates and Polyamorphism in Phase-Change KSbSe. <i>Journal of the American Chemical Society</i> , 2018 , 140, 9261-9268	16.4	6

29	Influence of Graphene Platelet Aspect Ratio on the Mechanical Properties of HDPE Nanocomposites: Microscopic Observation and Micromechanical Modeling. <i>Polymers</i> , 2020 , 12,	4.5	6
28	Physicochemical characterization and decomposition kinetics of trandolapril. <i>Thermochimica Acta</i> , 2012 , 539, 92-99	2.9	5
27	Effect of Silica Nanoparticles Modification on the Thermal, Structural, and Decomposition Properties of a π -Nucleated Poly(propylene-co-ethylene) Matrix. <i>Macromolecular Chemistry and Physics</i> , 2014 , 215, 839-850	2.6	5
26	Effect of Cu-nanofibers and Ag-nanoparticles on syndiotactic polystyrene thermal stability and on its decomposition mechanism. <i>Thermochimica Acta</i> , 2013 , 561, 26-35	2.9	5
25	Non-isothermal crystallization kinetics of graphite-reinforced crosslinked high-density polyethylene composites. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 142, 1849-1861	4.1	5
24	Bio-economy in Greece: Current trends and the road ahead. <i>The EuroBiotech Journal</i> , 2018 , 2, 137-145	1.5	5
23	Effect of end group content on photochromic behavior of spiropyran in polycaprolactone/poly(ethylene succinate) blends. <i>Journal of Applied Polymer Science</i> , 2007 , 105, 3623-3633	2.9	4
22	Super absorbent chitosan-based hydrogel sponges as carriers for caspofungin antifungal drug. <i>International Journal of Pharmaceutics</i> , 2021 , 606, 120925	6.5	4
21	Combined and Distinct Contributions of Different Carbon Nano-Forms in Polypropylene. <i>Macromolecular Materials and Engineering</i> , 2015 , 300, 611-626	3.9	3
20	Correlation between structure and thermal properties in 2-hydroxy-benzophenone Co(II) complexes. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014 , 117, 1241-1252	4.1	3
19	Thermoanalytical, magnetic and structural investigation of Co(II) complexes with dipyrldylamine and 2-hydroxyphenones. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014 , 116, 249-258	4.1	3
18	Effect of molar ratio on thermal mass loss kinetics of poly(ϵ -caprolactone-b-propylene adipate) copolymers. <i>Thermochimica Acta</i> , 2011 , 517, 45-52	2.9	3
17	Synthesis and Characterization of Unsaturated Succinic Acid Biobased Polyester Resins. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 896	2.6	3
16	High-temperature oxidation resistance and thermal stability of higher manganese silicide powder synthesized by pack cementation. <i>Journal of Alloys and Compounds</i> , 2021 , 873, 159842	5.7	3
15	Molecular mobility and crystallization of renewable poly(ethylene furanoate) filled with carbon nanotubes and graphene nanoparticles. <i>Soft Matter</i> , 2021 , 17, 5815-5828	3.6	3
14	Interface controlled active fracture modes in glass-ceramics. <i>Journal of Materials Science</i> , 2008 , 43, 3954-3959	4.9	2
13	Effect of ball milling on the mechanical properties and crystallization of graphene nanoplatelets reinforced short chain branched-polyethylene. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 50874	2.9	2
12	Effect of the Deposition Time and Heating Temperature on the Structure of Chromium Silicides Synthesized by Pack Cementation Process. <i>Corrosion and Materials Degradation</i> , 2021 , 2, 210-226	2.6	2

11	Graphite reinforced silane crosslinked high density polyethylene: The effect of filler loading on the thermal and mechanical properties. <i>Polymer Composites</i> , 2021 , 42, 1181-1197	3	2
10	Effects of Expandable Graphite at Moderate and Heavy Loadings on the Thermal and Electrical Conductivity of Amorphous Polystyrene and Semicrystalline High-Density Polyethylene. <i>Applied Nano</i> , 2021 , 2, 31-45	1	2
9	Investigation of the Protection Performance of Mg and Al Coated Copper in High Temperature or Marine Environments. <i>Coatings</i> , 2021 , 11, 337	2.9	2
8	Chloramphenicol Loaded Sponges Based on PVA/Nanocellulose Nanocomposites for Topical Wound Delivery. <i>Journal of Composites Science</i> , 2021 , 5, 208	3	2
7	Thermal Stability and Decomposition Mechanism of PLA Nanocomposites with Kraft Lignin and Tannin. <i>Polymers</i> , 2021 , 13,	4.5	2
6	Thermal Analysis of Glass-Ceramics and Composites in Biomedical and Dental Sciences. <i>Series in Bioengineering</i> , 2019 , 245-295	0.7	1
5	Synthesis and Characterization of Novel Calcium-Silicate Nanobioceramics with Magnesium: Effect of Heat Treatment on Biological, Physical and Chemical Properties. <i>Ceramics</i> , 2021 , 4, 628-651	1.7	1
4	Unlocking the potential of furan-based poly(ester amide)s: an investigation of crystallization, molecular dynamics and degradation kinetics of novel poly(ester amide)s based on renewable poly(propylene furanoate). <i>Polymer Chemistry</i> ,	4.9	1
3	Towards novel lignin-based aromatic polyesters: In-depth study of the thermal degradation and crystallization of poly(propylene vanillate). <i>Thermochimica Acta</i> , 2022 , 709, 179145	2.9	0
2	On the Improved Mechanical Properties of Ball-Milled GNPs Reinforced Short Chain Branched-Polyethylene Nanocomposite: Micromechanical Modeling and Fractography Study. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 9420	2.6	0
1	Modified Crystalline Structure of Silane-Crosslinked Polyethylene in the Proximity of Nanodiamonds. <i>Macromolecular Materials and Engineering</i> , 2016 , 301, 441-450	3.9	