Panagiotis A Klonos

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Molecular mobility, crystallization and melt-memory investigation of molar mass effects on linear and hydroxyl-terminated Poly(ε-caprolactone). Polymer, 2022, 242, 124603.	3.8	17
2	Poly(vinyl pyridine) and Its Quaternized Derivatives: Understanding Their Solvation and Solid State Properties. Polymers, 2022, 14, 804.	4.5	13
3	Thermomechanical performance of biodegradable poly (lactic acid)/carbonaceous hybrid nanocomposites: Comparative study. Polymer Composites, 2022, 43, 1900-1915.	4.6	6
4	Direct and indirect effects on molecular mobility in renewable polylactide–poly(propylene adipate) block copolymers as studied <i>via</i> dielectric spectroscopy and calorimetry. Soft Matter, 2022, 18, 3725-3737.	2.7	10
5	A Step Forward in Thermoplastic Polyesters: Understanding the Crystallization and Melting of Biobased Poly(ethylene 2,5-furandicarboxylate) (PEF). ACS Sustainable Chemistry and Engineering, 2022, 10, 7050-7064.	6.7	21
6	Molecular dynamics and crystallization in polymers based on ethylene glycol methacrylates (EGMAs) with melt memory characteristics: from linear oligomers to comb-like polymers. Soft Matter, 2021, 17, 1284-1298.	2.7	17
7	Block copolymers based on poly(butylene adipate) and poly(<scp>l</scp> -lactic acid) for biomedical applications: synthesis, structure and thermodynamical studies. Soft Matter, 2021, 17, 2439-2453.	2.7	20
8	Synthesis, Crystallization, Structure Memory Effects, and Molecular Dynamics of Biobased and Renewable Poly(<i>n</i> -alkylene succinate)s with <i>n</i> from 2 to 10. Macromolecules, 2021, 54, 1106-1119.	4.8	32
9	Low Molecular Weight Oligomers of Poly(alkylene succinate) Polyesters as Plasticizers in Poly(vinyl) Tj ETQq1 🛾	1 0.784314 4.5	rgBT /Overlo
10	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). Polymer Chemistry, 2021, 12, 5518-5534.	3.9	13
11	Effects of Expandable Graphite at Moderate and Heavy Loadings on the Thermal and Electrical Conductivity of Amorphous Polystyrene and Semicrystalline High-Density Polyethylene. Applied Nano, 2021, 2, 31-45.	2.0	5
12	Comparative study of crystallization, semicrystalline morphology, and molecular mobility in nanocomposites based on polylactide and various inclusions at low filler loadings. Polymer, 2021, 217, 123457.	3.8	23
13	The synergistic effect on the thermomechanical and electrical properties of carbonaceous hybrid polymer nanocomposites. Polymer Testing, 2021, 95, 107102.	4.8	13
14	Effects of poly(hexylene succinate) amount on the crystallization and molecular mobility of poly(lactic acid) copolymers. Thermochimica Acta, 2021, 698, 178883.	2.7	10
15	Influence of Reactive Chain Extension on the Properties of 3D Printed Poly(Lactic Acid) Constructs. Polymers, 2021, 13, 1381.	4.5	20
16	reinforced with nano-graphene platelets. Polymer, 2021, 224, 123731.	3.8	8
17	Effects of Ag, ZnO and TiO2 nanoparticles at low contents on the crystallization, semicrystalline morphology, interfacial phenomena and segmental dynamics of PLA. Materials Today Communications, 2021, 27, 102192.	1.9	20
18	Chloramphenicol Loaded Sponges Based on PVA/Nanocellulose Nanocomposites for Topical Wound Delivery. Journal of Composites Science, 2021, 5, 208.	3.0	7

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19	Super absorbent chitosan-based hydrogel sponges as carriers for caspofungin antifungal drug. International Journal of Pharmaceutics, 2021, 606, 120925.	5.2	19
20	Structure-Properties relationships in renewable composites based on polylactide filled with Tannin and Kraft Lignin - Crystallization and molecular mobility. Thermochimica Acta, 2021, 703, 178998.	2.7	15
21	Molecular mobility investigation of the biobased Poly(ethylene vanillate) and Poly(propylene) Tj ETQq1 1 0.7843	14 ₃ rgBT /O	verlock 10 10
22	Molecular mobility and crystallization of renewable poly(ethylene furanoate) <i>in situ</i> filled with carbon nanotubes and graphene nanoparticles. Soft Matter, 2021, 17, 5815-5828.	2.7	21
23	PEG-POSS Star Molecules Blended in Polyurethane with Flexible Hard Segments: Morphology and Dynamics. Molecules, 2021, 26, 99.	3.8	10
24	High-Drug-Loading Amorphous Solid Dispersions via <i>In Situ</i> Thermal Cross-Linking: Unraveling the Mechanisms of Stabilization. Molecular Pharmaceutics, 2021, 18, 4393-4414.	4.6	10
25	Molecular dynamics, crystallization and hydration study of Poly(Propylene succinate) based Poly(Ester amide)s. Polymer, 2020, 186, 122056.	3.8	14
26	Synthesis, crystallization, and molecular mobility in poly(ε-caprolactone) copolyesters of different architectures for biomedical applications studied by calorimetry and dielectric spectroscopy. Soft Matter, 2020, 16, 8187-8201.	2.7	21
27	Molecular Dynamics in Nanocomposites Based on Renewable Poly(butylene 2,5-furan-dicarboxylate) In Situ Reinforced by Montmorillonite Nanoclays: Effects of Clay Modification, Crystallization, and Hydration. Journal of Physical Chemistry B, 2020, 124, 7306-7317.	2.6	20
28	Interfacial phenomena and molecular dynamics in core-shell-type nanocomposites based on polydimethylsiloxane and fumed silica: Comparison between impregnation and the new mechano-sorption modification as preparation methods. Polymer, 2020, 205, 122876.	3.8	3
29	Calorimetric and Dielectric Study of Renewable Poly(hexylene 2,5-furan-dicarboxylate)-Based Nanocomposites In Situ Filled with Small Amounts of Graphene Platelets and Silica Nanoparticles. Polymers, 2020, 12, 1239.	4.5	25
30	Rigid Amorphous Fraction and Thermal Diffusivity in Nanocomposites Based on Poly(<scp>l</scp> -lactic acid) Filled with Carbon Nanotubes and Graphene Oxide. Journal of Physical Chemistry C, 2020, 124, 5469-5479.	3.1	28
31	Effects of graphene nanoplatelets on crystallization, mechanical performance and molecular dynamics of the renewable poly(propylene furanoate). Polymer, 2020, 189, 122172.	3.8	26
32	Synthesis and characterization of novel polymer/clay nanocomposites based on poly (butylene) Tj ETQq0 0 0 rgB	T /Overloc	k 10 Tf 50 2
33	Interfacial Interactions, Crystallization, and Molecular Dynamics of Renewable Poly(Propylene) Tj ETQq1 1 0.7843 Graphene Oxide. Journal of Physical Chemistry C, 2020, 124, 10220-10234.	14 rgBT /(3.1	Overlock 10 36
34	Thermal, nanoindentation and dielectric study of nanocomposites based on poly(propylene furanoate) and various inclusions. Materials Today Communications, 2019, 20, 100585.	1.9	25
35	Glass transition and molecular dynamics in PHPMA-b-POEGMA block copolymers. Polymer, 2019, 181, 121794.	3.8	5
36	Glass Transition and Molecular Dynamics in Core–Shell-Type Nanocomposites Based on Fumed Silica and Polysiloxanes: Comparison between Poly(dimethylsiloxane) and Poly(ethylhydrosiloxane). Journal of Physical Chemistry C, 2019, 123, 28427-28436.	3.1	23

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37	Molecular and charge mobility of a poloxamer in the bulk and as soft component in polyurethanes. Polymer, 2019, 182, 121821.	3.8	6
38	Interfacial interactions, crystallization and molecular mobility in nanocomposites of Poly(lactic) Tj ETQq0 0 0 rgBT 2019, 166, 1-12.	/Overlock 3.8	10 Tf 50 70 83
39	Effects of CNTs on thermal transitions, thermal diffusivity and electrical conductivity in nanocomposites: comparison between an amorphous and a semicrystalline polymer matrix. Soft Matter, 2019, 15, 1813-1824.	2.7	46
40	Morphology, Molecular Dynamics, and Interfacial Phenomena in Systems Based on Silica Modified by Grafting Polydimethylsiloxane Chains and Physically Adsorbed Polydimethylsiloxane. Macromolecules, 2019, 52, 2863-2877.	4.8	39
41	Molecular Dynamics in Polystyrene Single-Chain Nanoparticles. Macromolecules, 2019, 52, 9334-9340.	4.8	19
42	Morphology, crystallization and rigid amorphous fraction in PDMS adsorbed onto carbon nanotubes and graphite. Polymer, 2018, 139, 130-144.	3.8	49
43	Crystallization, glass transition, and molecular dynamics in PDMS of low molecular weights: A calorimetric and dielectric study. Polymer, 2018, 159, 169-180.	3.8	50
44	Dynamics of Molecules Physically Adsorbed onto Metal Oxide Nanoparticles: Similarities between Water and a Flexible Polymer. Journal of Physical Chemistry C, 2018, 122, 28825-28829.	3.1	11
45	In situ prepared poly(DL-lactic acid)/silica nanocomposites: Study of molecular composition, thermal stability, glass transition and molecular dynamics. Thermochimica Acta, 2018, 669, 16-29.	2.7	23
46	Structure, thermal transitions and polymer dynamics in nanocomposites based on poly(Îμ-caprolactone) and nano-inclusions of 1-3D geometry. Thermochimica Acta, 2018, 666, 229-240.	2.7	22
47	Morphology, thermal properties and molecular dynamics of syndiotactic polystyrene (s-PS) nanocomposites with aligned graphene oxide and graphene nanosheets. Polymer, 2018, 153, 548-557.	3.8	21
48	Polyurethanes with POSS pendent on flexible hard segments: Morphology and glass transition. Polymer, 2018, 147, 225-236.	3.8	19
49	Morphology and molecular dynamics investigation of low molecular weight PDMS adsorbed onto St¶ber, fumed, and sol-gel silica nanoparticles. Polymer, 2018, 148, 1-13.	3.8	21
50	Interfacial effects in PDMS/titania nanocomposites studied by thermal and dielectric techniques. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 519, 212-222.	4.7	23
51	Effects of interfacial interactions and of crystallization on rigid amorphous fraction and molecular dynamics in polylactide/silica nanocomposites: A methodological approach. Polymer, 2017, 112, 228-243.	3.8	53
52	Biocompatible nanocomposites based on semi-interpenetrating polymer networks and nanosilica modified by bioactive amino acid tryptophan: Morphology, dynamics and properties. European Polymer Journal, 2017, 92, 150-164.	5.4	4
53	Effects of Hydration/Dehydration on Interfacial Polymer Fraction and Dynamics in Nanocomposites Based on Metal–Oxides and Physically Adsorbed Polymer. Journal of Physical Chemistry C, 2017, 121, 19428-19441.	3.1	18
54	Applying Broadband Dielectric Spectroscopy (BDS) for the Biophysical Characterization of Mammalian Tissues under a Variety of Cellular Stresses. International Journal of Molecular Sciences, 2017, 18, 838.	4.1	4

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55	Rigid amorphous fraction and segmental dynamics in nanocomposites based on poly(l–lactic acid) and nano-inclusions of 1–3D geometry studied by thermal and dielectric techniques. European Polymer Journal, 2016, 82, 16-34.	5.4	68
56	Effects of Molecular Weight below the Entanglement Threshold on Interfacial Nanoparticles/Polymer Dynamics. Macromolecules, 2016, 49, 9457-9473.	4.8	82
57	Interfacial and confined dynamics of PDMS adsorbed at the interfaces and in the pores of silica–gel: Effects of surface modification and thermal annealing. Polymer, 2016, 84, 38-51.	3.8	33
58	Glass transition and hydration properties of polyhydroxyethylmethacrylate filled with modified silica nanoparticles. Journal of Thermal Analysis and Calorimetry, 2016, 125, 1387-1398.	3.6	9
59	Structure–properties investigations in hydrophilic nanocomposites based on polyurethane/poly(2–hydroxyethyl methacrylate) semiâ€interpenetrating polymer networks and nanofiller densil for biomedical application. Journal of Applied Polymer Science, 2016, 133, .	2.6	6
60	Morphology and molecular dynamics investigation of PDMS adsorbed on titania nanoparticles: Effects of polymer molecular weight. European Polymer Journal, 2016, 74, 64-80.	5.4	62
61	Interfacial phenomena in core–shell nanocomposites of PDMS adsorbed onto low specific surface area fumed silica nanooxides: Effects of surface modification. Polymer, 2015, 68, 158-167.	3.8	42
62	Interfacial interactions and complex segmental dynamics in systems based on silica-polydimethylsiloxane core–shell nanoparticles: Dielectric and thermal study. Polymer, 2015, 58, 9-21.	3.8	41
63	Effects of surface modification and thermal annealing on the interfacial dynamics in core–shell nanocomposites based on silica and adsorbed PDMS. European Polymer Journal, 2015, 70, 342-359.	5.4	40
64	Glass transition and segmental dynamics in poly(l-lactic acid)/graphene oxide nanocomposites. Thermochimica Acta, 2015, 617, 44-53.	2.7	52
65	Interfacial dynamics of polydimethylsiloxane adsorbed on fumed metal oxide particles of a wide range of specific surface area. Polymer, 2015, 77, 10-13.	3.8	44
66	Dielectric and thermal studies of segmental dynamics in silica/PDMS and silica/titania/PDMS nanocomposites. Journal of Applied Polymer Science, 2014, 131, .	2.6	25
67	Hydrophilic nanocomposites based on polyurethane/poly(2â€hydroxyethyl methacrylate) semiâ€ŀPNs and modified/unmodified nanosilica for biomedical applications. Journal of Polymer Science, Part B: Polymer Physics, 2014, 52, 397-408.	2.1	14
68	Evaluation of the formed interface in biodegradable poly(l-lactic acid)/graphene oxide nanocomposites and the effect of nanofillers on mechanical and thermal properties. Thermochimica Acta, 2014, 597, 48-57.	2.7	71
69	Dielectric properties and thermal destruction of poly(dimethylsiloxane)/Fe2O3/SiO2 nanocomposites. Applied Surface Science, 2014, 305, 67-76.	6.1	29
70	Thermal and dielectric studies of PEG/C/AST nanocomposites. Journal of Applied Polymer Science, 2013, 128, 1601-1615.	2.6	6
71	Interfacial effects in polymer nanocomposites studied by dielectric and thermal techniques. IEEE Transactions on Dielectrics and Electrical Insulation, 2012, 19, 1283-1290.	2.9	29
72	DSC study of polyhydroxyethylmethacrylate filled with modified silicas. Journal of Thermal Analysis and Calorimetry, 2012, 108, 1111-1119.	3.6	16

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73	Interfacial effects in polymer nanocomposites studied by dielectric and thermal techniques. , 2011, , .		0
74	Dielectric studies of segmental dynamics in poly(dimethylsiloxane)/titania nanocomposites. Journal of Non-Crystalline Solids, 2011, 357, 610-614.	3.1	42
75	Comparative studies on effects of silica and titania nanoparticles on crystallization and complex segmental dynamics in poly(dimethylsiloxane). Polymer, 2010, 51, 5490-5499.	3.8	113
76	Water sorption and polymer dynamics in hybrid poly(2-hydroxyethyl-co-ethyl acrylate)/silica hydrogels. European Polymer Journal, 2010, 46, 101-111.	5.4	32
77	Interaction of poly(ethylene glycol) with fumed silica and alumina/silica/titania. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2010, 360, 220-231.	4.7	42

Preparation by solution mixing and characterization of condensation type poly(dimethyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50_{4} 542 Td (22_{4}