

Panagiotis A Klonos

List of Publications by Year in descending order

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78
papers

2,030
citations

218592

26
h-index

289141

40
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80
all docs

80
docs citations

80
times ranked

1278
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular mobility, crystallization and melt-memory investigation of molar mass effects on linear and hydroxyl-terminated Poly(μ -caprolactone). <i>Polymer</i> , 2022, 242, 124603.	1.8	17
2	Poly(vinyl pyridine) and Its Quaternized Derivatives: Understanding Their Solvation and Solid State Properties. <i>Polymers</i> , 2022, 14, 804.	2.0	13
3	Thermomechanical performance of biodegradable poly (lactic acid)/carbonaceous hybrid nanocomposites: Comparative study. <i>Polymer Composites</i> , 2022, 43, 1900-1915.	2.3	6
4	Direct and indirect effects on molecular mobility in renewable polylactide-poly(propylene adipate) block copolymers as studied via dielectric spectroscopy and calorimetry. <i>Soft Matter</i> , 2022, 18, 3725-3737.	1.2	10
5	A Step Forward in Thermoplastic Polyesters: Understanding the Crystallization and Melting of Biobased Poly(ethylene 2,5-furandicarboxylate) (PEF). <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 7050-7064.	3.2	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. <i>Soft Matter</i> , 2021, 17, 1284-1298.	1.2	17
7	Block copolymers based on poly(butylene adipate) and poly(ϵ -lactide) for biomedical applications: synthesis, structure and thermodynamical studies. <i>Soft Matter</i> , 2021, 17, 2439-2453.	1.2	20
8	Synthesis, Crystallization, Structure Memory Effects, and Molecular Dynamics of Biobased and Renewable Poly(n -alkylene succinate)s with n from 2 to 10. <i>Macromolecules</i> , 2021, 54, 1106-1119.	2.2	32
9	Low Molecular Weight Oligomers of Poly(alkylene succinate) Polyesters as Plasticizers in Poly(vinyl Tj ETQq1 1 0.784314 rgBT /Overl	2.0	11
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). <i>Polymer Chemistry</i> , 2021, 12, 5518-5534.	1.9	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. <i>Applied Nano</i> , 2021, 2, 31-45.	0.9	5
12	Comparative study of crystallization, semicrystalline morphology, and molecular mobility in nanocomposites based on polylactide and various inclusions at low filler loadings. <i>Polymer</i> , 2021, 217, 123457.	1.8	23
13	The synergistic effect on the thermomechanical and electrical properties of carbonaceous hybrid polymer nanocomposites. <i>Polymer Testing</i> , 2021, 95, 107102.	2.3	13
14	Effects of poly(hexylene succinate) amount on the crystallization and molecular mobility of poly(lactic acid) copolymers. <i>Thermochimica Acta</i> , 2021, 698, 178883.	1.2	10
15	Influence of Reactive Chain Extension on the Properties of 3D Printed Poly(Lactic Acid) Constructs. <i>Polymers</i> , 2021, 13, 1381.	2.0	20
16	reinforced with nano-graphene platelets. <i>Polymer</i> , 2021, 224, 123731.	1.8	8
17	Effects of Ag, ZnO and TiO ₂ nanoparticles at low contents on the crystallization, semicrystalline morphology, interfacial phenomena and segmental dynamics of PLA. <i>Materials Today Communications</i> , 2021, 27, 102192.	0.9	20
18	Chloramphenicol Loaded Sponges Based on PVA/Nanocellulose Nanocomposites for Topical Wound Delivery. <i>Journal of Composites Science</i> , 2021, 5, 208.	1.4	7

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19	Super absorbent chitosan-based hydrogel sponges as carriers for caspofungin antifungal drug. <i>International Journal of Pharmaceutics</i> , 2021, 606, 120925.	2.6	19
20	Structure-Properties relationships in renewable composites based on polylactide filled with Tannin and Kraft Lignin - Crystallization and molecular mobility. <i>Thermochimica Acta</i> , 2021, 703, 178998.	1.2	15
21	Molecular mobility investigation of the biobased Poly(ethylene vanillate) and Poly(propylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.8	10
22	Molecular mobility and crystallization of renewable poly(ethylene furanoate) <i>in situ</i> filled with carbon nanotubes and graphene nanoparticles. <i>Soft Matter</i> , 2021, 17, 5815-5828.	1.2	21
23	PEG-POSS Star Molecules Blended in Polyurethane with Flexible Hard Segments: Morphology and Dynamics. <i>Molecules</i> , 2021, 26, 99.	1.7	10
24	High-Drug-Loading Amorphous Solid Dispersions via <i>In Situ</i> Thermal Cross-Linking: Unraveling the Mechanisms of Stabilization. <i>Molecular Pharmaceutics</i> , 2021, 18, 4393-4414.	2.3	10
25	Molecular dynamics, crystallization and hydration study of Poly(Propylene succinate) based Poly(Ester amide)s. <i>Polymer</i> , 2020, 186, 122056.	1.8	14
26	Synthesis, crystallization, and molecular mobility in poly(Îµ-caprolactone) copolyesters of different architectures for biomedical applications studied by calorimetry and dielectric spectroscopy. <i>Soft Matter</i> , 2020, 16, 8187-8201.	1.2	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. <i>Journal of Physical Chemistry B</i> , 2020, 124, 7306-7317.	1.2	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. <i>Polymer</i> , 2020, 205, 122876.	1.8	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. <i>Polymers</i> , 2020, 12, 1239.	2.0	25
30	Rigid Amorphous Fraction and Thermal Diffusivity in Nanocomposites Based on Poly(<sc>l</sc>-lactic acid) Filled with Carbon Nanotubes and Graphene Oxide. <i>Journal of Physical Chemistry C</i> , 2020, 124, 5469-5479.	1.5	28
31	Effects of graphene nanoplatelets on crystallization, mechanical performance and molecular dynamics of the renewable poly(propylene furanoate). <i>Polymer</i> , 2020, 189, 122172.	1.8	26
32	Synthesis and characterization of novel polymer/clay nanocomposites based on poly (butylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 22	2.6	35
33	Interfacial Interactions, Crystallization, and Molecular Dynamics of Renewable Poly(Propylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T Graphene Oxide. <i>Journal of Physical Chemistry C</i> , 2020, 124, 10220-10234.	1.5	36
34	Thermal, nanoindentation and dielectric study of nanocomposites based on poly(propylene furanoate) and various inclusions. <i>Materials Today Communications</i> , 2019, 20, 100585.	0.9	25
35	Class transition and molecular dynamics in PHPMA-b-POEGMA block copolymers. <i>Polymer</i> , 2019, 181, 121794.	1.8	5
36	Class Transition and Molecular Dynamics in Core-Shell-Type Nanocomposites Based on Fumed Silica and Polysiloxanes: Comparison between Poly(dimethylsiloxane) and Poly(ethylhydrosiloxane). <i>Journal of Physical Chemistry C</i> , 2019, 123, 28427-28436.	1.5	23

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37	Molecular and charge mobility of a poloxamer in the bulk and as soft component in polyurethanes. <i>Polymer</i> , 2019, 182, 121821.	1.8	6
38	Interfacial interactions, crystallization and molecular mobility in nanocomposites of Poly(lactic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70 2019, 166, 1-12.	1.8	83
39	Effects of CNTs on thermal transitions, thermal diffusivity and electrical conductivity in nanocomposites: comparison between an amorphous and a semicrystalline polymer matrix. <i>Soft Matter</i> , 2019, 15, 1813-1824.	1.2	46
40	Morphology, Molecular Dynamics, and Interfacial Phenomena in Systems Based on Silica Modified by Grafting Polydimethylsiloxane Chains and Physically Adsorbed Polydimethylsiloxane. <i>Macromolecules</i> , 2019, 52, 2863-2877.	2.2	39
41	Molecular Dynamics in Polystyrene Single-Chain Nanoparticles. <i>Macromolecules</i> , 2019, 52, 9334-9340.	2.2	19
42	Morphology, crystallization and rigid amorphous fraction in PDMS adsorbed onto carbon nanotubes and graphite. <i>Polymer</i> , 2018, 139, 130-144.	1.8	49
43	Crystallization, glass transition, and molecular dynamics in PDMS of low molecular weights: A calorimetric and dielectric study. <i>Polymer</i> , 2018, 159, 169-180.	1.8	50
44	Dynamics of Molecules Physically Adsorbed onto Metal Oxide Nanoparticles: Similarities between Water and a Flexible Polymer. <i>Journal of Physical Chemistry C</i> , 2018, 122, 28825-28829.	1.5	11
45	In situ prepared poly(DL-lactic acid)/silica nanocomposites: Study of molecular composition, thermal stability, glass transition and molecular dynamics. <i>Thermochimica Acta</i> , 2018, 669, 16-29.	1.2	23
46	Structure, thermal transitions and polymer dynamics in nanocomposites based on poly(μ -caprolactone) and nano-inclusions of 1-3D geometry. <i>Thermochimica Acta</i> , 2018, 666, 229-240.	1.2	22
47	Morphology, thermal properties and molecular dynamics of syndiotactic polystyrene (s-PS) nanocomposites with aligned graphene oxide and graphene nanosheets. <i>Polymer</i> , 2018, 153, 548-557.	1.8	21
48	Polyurethanes with POSS pendent on flexible hard segments: Morphology and glass transition. <i>Polymer</i> , 2018, 147, 225-236.	1.8	19
49	Morphology and molecular dynamics investigation of low molecular weight PDMS adsorbed onto StÄrber, fumed, and sol-gel silica nanoparticles. <i>Polymer</i> , 2018, 148, 1-13.	1.8	21
50	Interfacial effects in PDMS/titania nanocomposites studied by thermal and dielectric techniques. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 519, 212-222.	2.3	23
51	Effects of interfacial interactions and of crystallization on rigid amorphous fraction and molecular dynamics in polylactide/silica nanocomposites: A methodological approach. <i>Polymer</i> , 2017, 112, 228-243.	1.8	53
52	Biocompatible nanocomposites based on semi-interpenetrating polymer networks and nanosilica modified by bioactive amino acid tryptophan: Morphology, dynamics and properties. <i>European Polymer Journal</i> , 2017, 92, 150-164.	2.6	4
53	Effects of Hydration/Dehydration on Interfacial Polymer Fraction and Dynamics in Nanocomposites Based on MetalOxides and Physically Adsorbed Polymer. <i>Journal of Physical Chemistry C</i> , 2017, 121, 19428-19441.	1.5	18
54	Applying Broadband Dielectric Spectroscopy (BDS) for the Biophysical Characterization of Mammalian Tissues under a Variety of Cellular Stresses. <i>International Journal of Molecular Sciences</i> , 2017, 18, 838.	1.8	4

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55	Rigid amorphous fraction and segmental dynamics in nanocomposites based on poly(l-lactic acid) and nano-inclusions of 1D geometry studied by thermal and dielectric techniques. <i>European Polymer Journal</i> , 2016, 82, 16-34.	2.6	68
56	Effects of Molecular Weight below the Entanglement Threshold on Interfacial Nanoparticles/Polymer Dynamics. <i>Macromolecules</i> , 2016, 49, 9457-9473.	2.2	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. <i>Polymer</i> , 2016, 84, 38-51.	1.8	33
58	Glass transition and hydration properties of polyhydroxyethylmethacrylate filled with modified silica nanoparticles. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 125, 1387-1398.	2.0	9
59	Structure-properties investigations in hydrophilic nanocomposites based on polyurethane/poly(2-hydroxyethyl methacrylate) semi-interpenetrating polymer networks and nanofiller densil for biomedical application. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	6
60	Morphology and molecular dynamics investigation of PDMS adsorbed on titania nanoparticles: Effects of polymer molecular weight. <i>European Polymer Journal</i> , 2016, 74, 64-80.	2.6	62
61	Interfacial phenomena in core-shell nanocomposites of PDMS adsorbed onto low specific surface area fumed silica nanooxides: Effects of surface modification. <i>Polymer</i> , 2015, 68, 158-167.	1.8	42
62	Interfacial interactions and complex segmental dynamics in systems based on silica-polydimethylsiloxane core-shell nanoparticles: Dielectric and thermal study. <i>Polymer</i> , 2015, 58, 9-21.	1.8	41
63	Effects of surface modification and thermal annealing on the interfacial dynamics in core-shell nanocomposites based on silica and adsorbed PDMS. <i>European Polymer Journal</i> , 2015, 70, 342-359.	2.6	40
64	Glass transition and segmental dynamics in poly(l-lactic acid)/graphene oxide nanocomposites. <i>Thermochimica Acta</i> , 2015, 617, 44-53.	1.2	52
65	Interfacial dynamics of polydimethylsiloxane adsorbed on fumed metal oxide particles of a wide range of specific surface area. <i>Polymer</i> , 2015, 77, 10-13.	1.8	44
66	Dielectric and thermal studies of segmental dynamics in silica/PDMS and silica/titania/PDMS nanocomposites. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	25
67	Hydrophilic nanocomposites based on polyurethane/poly(2-hydroxyethyl methacrylate) semi-IPNs and modified/unmodified nanosilica for biomedical applications. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2014, 52, 397-408.	2.4	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. <i>Thermochimica Acta</i> , 2014, 597, 48-57.	1.2	71
69	Dielectric properties and thermal destruction of poly(dimethylsiloxane)/Fe ₂ O ₃ /SiO ₂ nanocomposites. <i>Applied Surface Science</i> , 2014, 305, 67-76.	3.1	29
70	Thermal and dielectric studies of PEG/C/AST nanocomposites. <i>Journal of Applied Polymer Science</i> , 2013, 128, 1601-1615.	1.3	6
71	Interfacial effects in polymer nanocomposites studied by dielectric and thermal techniques. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2012, 19, 1283-1290.	1.8	29
72	DSC study of polyhydroxyethylmethacrylate filled with modified silicas. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012, 108, 1111-1119.	2.0	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.	1.5	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.	1.8	113
76	Water sorption and polymer dynamics in hybrid poly(2-hydroxyethyl-co-ethyl acrylate)/silica hydrogels. European Polymer Journal, 2010, 46, 101-111.	2.6	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.	2.3	42
78	Preparation by solution mixing and characterization of condensation type poly(dimethyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542 Td (1.2	4