

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
g-index

80
all docs

80
docs citations

80
times ranked

1278
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparative studies on effects of silica and titania nanoparticles on crystallization and complex segmental dynamics in poly(dimethylsiloxane). <i>Polymer</i> , 2010, 51, 5490-5499.	1.8	113
2	Interfacial interactions, crystallization and molecular mobility in nanocomposites of Poly(lactic acid) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70 2019, 166, 1-12.	1.8	83
3	Effects of Molecular Weight below the Entanglement Threshold on Interfacial Nanoparticles/Polymer Dynamics. <i>Macromolecules</i> , 2016, 49, 9457-9473.	2.2	82
4	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
5	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
6	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
7	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
8	Glass transition and segmental dynamics in poly(l-lactic acid)/graphene oxide nanocomposites. <i>Thermochimica Acta</i> , 2015, 617, 44-53.	1.2	52
9	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
10	Morphology, crystallization and rigid amorphous fraction in PDMS adsorbed onto carbon nanotubes and graphite. <i>Polymer</i> , 2018, 139, 130-144.	1.8	49
11	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
12	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
13	Interaction of poly(ethylene glycol) with fumed silica and alumina/silica/titania. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010, 360, 220-231.	2.3	42
14	Dielectric studies of segmental dynamics in poly(dimethylsiloxane)/titania nanocomposites. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 610-614.	1.5	42
15	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
16	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
17	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
18	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

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19	Interfacial Interactions, Crystallization, and Molecular Dynamics of Renewable Poly(Propylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 70 Graphene Oxide. Journal of Physical Chemistry C, 2020, 124, 10220-10234.	1.5	36
20	Synthesis and characterization of novel polymer/clay nanocomposites based on poly (butylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70	2.6	35
21	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.	1.8	33
22	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
23	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.	2.2	32
24	Interfacial effects in polymer nanocomposites studied by dielectric and thermal techniques. IEEE Transactions on Dielectrics and Electrical Insulation, 2012, 19, 1283-1290.	1.8	29
25	Dielectric properties and thermal destruction of poly(dimethylsiloxane)/Fe ₂ O ₃ /SiO ₂ nanocomposites. Applied Surface Science, 2014, 305, 67-76.	3.1	29
26	Rigid Amorphous Fraction and Thermal Diffusivity in Nanocomposites Based on Poly(<i>l</i> -lactic acid) Filled with Carbon Nanotubes and Graphene Oxide. Journal of Physical Chemistry C, 2020, 124, 5469-5479.	1.5	28
27	Effects of graphene nanoplatelets on crystallization, mechanical performance and molecular dynamics of the renewable poly(propylene furanoate). Polymer, 2020, 189, 122172.	1.8	26
28	Dielectric and thermal studies of segmental dynamics in silica/PDMS and silica/titania/PDMS nanocomposites. Journal of Applied Polymer Science, 2014, 131, .	1.3	25
29	Thermal, nanoindentation and dielectric study of nanocomposites based on poly(propylene furanoate) and various inclusions. Materials Today Communications, 2019, 20, 100585.	0.9	25
30	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.	2.0	25
31	Interfacial effects in PDMS/titania nanocomposites studied by thermal and dielectric techniques. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 519, 212-222.	2.3	23
32	In situ prepared poly(DL-lactic acid)/silica nanocomposites: Study of molecular composition, thermal stability, glass transition and molecular dynamics. Thermochemica Acta, 2018, 669, 16-29.	1.2	23
33	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.	1.5	23
34	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.	1.8	23
35	Structure, thermal transitions and polymer dynamics in nanocomposites based on poly(μ -caprolactone) and nano-inclusions of 1-3D geometry. Thermochemica Acta, 2018, 666, 229-240.	1.2	22
36	Morphology, thermal properties and molecular dynamics of syndiotactic polystyrene (s-PS) nanocomposites with aligned graphene oxide and graphene nanosheets. Polymer, 2018, 153, 548-557.	1.8	21

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37	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
38	Synthesis, crystallization, and molecular mobility in poly(μ -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
39	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
40	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
41	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
42	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
43	Influence of Reactive Chain Extension on the Properties of 3D Printed Poly(Lactic Acid) Constructs. <i>Polymers</i> , 2021, 13, 1381.	2.0	20
44	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
45	Polyurethanes with POSS pendent on flexible hard segments: Morphology and glass transition. <i>Polymer</i> , 2018, 147, 225-236.	1.8	19
46	Molecular Dynamics in Polystyrene Single-Chain Nanoparticles. <i>Macromolecules</i> , 2019, 52, 9334-9340.	2.2	19
47	Super absorbent chitosan-based hydrogel sponges as carriers for caspofungin antifungal drug. <i>International Journal of Pharmaceutics</i> , 2021, 606, 120925.	2.6	19
48	Effects of Hydration/Dehydration on Interfacial Polymer Fraction and Dynamics in Nanocomposites Based on Metalâ€“Oxides and Physically Adsorbed Polymer. <i>Journal of Physical Chemistry C</i> , 2017, 121, 19428-19441.	1.5	18
49	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
50	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
51	DSC study of polyhydroxyethylmethacrylate filled with modified silicas. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012, 108, 1111-1119.	2.0	16
52	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
53	Hydrophilic nanocomposites based on polyurethane/poly(2â€“hydroxyethyl methacrylate) semiâ€“PNs and modified/unmodified nanosilica for biomedical applications. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2014, 52, 397-408.	2.4	14
54	Molecular dynamics, crystallization and hydration study of Poly(Propylene succinate) based Poly(Ester amide)s. <i>Polymer</i> , 2020, 186, 122056.	1.8	14

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55	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
56	The synergistic effect on the thermomechanical and electrical properties of carbonaceous hybrid polymer nanocomposites. <i>Polymer Testing</i> , 2021, 95, 107102.	2.3	13
57	Poly(vinyl pyridine) and Its Quaternized Derivatives: Understanding Their Solvation and Solid State Properties. <i>Polymers</i> , 2022, 14, 804.	2.0	13
58	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
59	Low Molecular Weight Oligomers of Poly(alkylene succinate) Polyesters as Plasticizers in Poly(vinyl Tj ETQq1 1 0.784314 rgBT /Overlock 10	2.0	11
60	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
61	Molecular mobility investigation of the biobased Poly(ethylene vanillate) and Poly(propylene Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.8	10
62	PEG-POSS Star Molecules Blended in Polyurethane with Flexible Hard Segments: Morphology and Dynamics. <i>Molecules</i> , 2021, 26, 99.	1.7	10
63	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
64	Direct and indirect effects on molecular mobility in renewable polylactideâ€“poly(propylene adipate) block copolymers as studied <i>via</i> dielectric spectroscopy and calorimetry. <i>Soft Matter</i> , 2022, 18, 3725-3737.	1.2	10
65	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
66	reinforced with nano-graphene platelets. <i>Polymer</i> , 2021, 224, 123731.	1.8	8
67	Chloramphenicol Loaded Sponges Based on PVA/Nanocellulose Nanocomposites for Topical Wound Delivery. <i>Journal of Composites Science</i> , 2021, 5, 208.	1.4	7
68	Thermal and dielectric studies of PEG/C/AST nanocomposites. <i>Journal of Applied Polymer Science</i> , 2013, 128, 1601-1615.	1.3	6
69	Structureâ€“properties investigations in hydrophilic nanocomposites based on polyurethane/poly(2â€“hydroxyethyl methacrylate) semiâ€“interpenetrating polymer networks and nanofiller densil for biomedical application. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	6
70	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
71	Thermomechanical performance of biodegradable poly (lactic acid)/carbonaceous hybrid nanocomposites: Comparative study. <i>Polymer Composites</i> , 2022, 43, 1900-1915.	2.3	6
72	Glass transition and molecular dynamics in PHPMA-b-POEGMA block copolymers. <i>Polymer</i> , 2019, 181, 121794.	1.8	5

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73	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.	0.9	5
74	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.	2.6	4
75	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.	1.8	4
76	Preparation by solution mixing and characterization of condensation type poly(dimethyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 Td (1.2	4
77	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.	1.8	3
78	Interfacial effects in polymer nanocomposites studied by dielectric and thermal techniques. , 2011, , .		0