

Dimitrios G Papageorgiou

List of Publications by Year in descending order

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81
papers

6,301
citations

94415

37
h-index

66906

78
g-index

81
all docs

81
docs citations

81
times ranked

6921
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical properties of graphene and graphene-based nanocomposites. <i>Progress in Materials Science</i> , 2017, 90, 75-127.	32.8	1,682
2	Production of bio-based 2,5-furan dicarboxylate polyesters: Recent progress and critical aspects in their synthesis and thermal properties. <i>European Polymer Journal</i> , 2016, 83, 202-229.	5.4	359
3	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.	5.8	336
4	Graphene/elastomer nanocomposites. <i>Carbon</i> , 2015, 95, 460-484.	10.3	308
5	Electrical percolation in graphene-polymer composites. <i>2D Materials</i> , 2018, 5, 032003.	4.4	266
6	Mechanisms of mechanical reinforcement by graphene and carbon nanotubes in polymer nanocomposites. <i>Nanoscale</i> , 2020, 12, 2228-2267.	5.6	222
7	The mechanics of reinforcement of polymers by graphene nanoplatelets. <i>Composites Science and Technology</i> , 2018, 154, 110-116.	7.8	221
8	Synthesis of the bio-based polyester poly(propylene 2,5-furan dicarboxylate). Comparison of thermal behavior and solid state structure with its terephthalate and naphthalate homologues. <i>Polymer</i> , 2015, 62, 28-38.	3.8	165
9	Evaluation of polyesters from renewable resources as alternatives to the current fossil-based polymers. Phase transitions of poly(butylene 2,5-furan-dicarboxylate). <i>Polymer</i> , 2014, 55, 3846-3858.	3.8	155
10	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.	5.4	127
11	Tuning the Properties of Furandicarboxylic Acid-Based Polyesters with Copolymerization: A Review. <i>Polymers</i> , 2020, 12, 1209.	4.5	99
12	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.	5.5	94
13	Crystallization and Polymorphism of Poly(ethylene furanoate). <i>Crystal Growth and Design</i> , 2015, 15, 5505-5512.	3.0	94
14	Hybrid multifunctional graphene/glass-fibre polypropylene composites. <i>Composites Science and Technology</i> , 2016, 137, 44-51.	7.8	93
15	Î ² -Nucleated Polypropylene: Processing, Properties and Nanocomposites. <i>Polymer Reviews</i> , 2015, 55, 596-629.	10.9	88
16	Multifunctional epoxy nanocomposites reinforced by two-dimensional materials: A review. <i>Carbon</i> , 2021, 185, 57-81.	10.3	88
17	Poly(ethylene furanoate-co-ethylene terephthalate) biobased copolymers: Synthesis, thermal properties and cocrystallization behavior. <i>European Polymer Journal</i> , 2017, 89, 349-366.	5.4	86
18	Fast Crystallization and Melting Behavior of a Long-Spaced Aliphatic Furandicarboxylate Biobased Polyester, Poly(dodecylene 2,5-furanoate). <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 5315-5326.	3.7	73

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19	Kinetics of nucleation and crystallization in poly(butylene succinate) nanocomposites. <i>Polymer</i> , 2014, 55, 6725-6734.	3.8	65
20	Biobased poly(ethylene furanoate-co-ethylene succinate) copolyesters: solid state structure, melting point depression and biodegradability. <i>RSC Advances</i> , 2016, 6, 84003-84015.	3.6	63
21	Hybrid hydrogels based on keratin and alginate for tissue engineering. <i>Journal of Materials Chemistry B</i> , 2014, 2, 5441-5451.	5.8	60
22	Sustainable, eco-friendly polyesters synthesized from renewable resources: preparation and thermal characteristics of poly(dimethyl-propylene furanoate). <i>Polymer Chemistry</i> , 2015, 6, 8284-8296.	3.9	60
23	Enhanced thermal and fire retardancy properties of polypropylene reinforced with a hybrid graphene/glass-fibre filler. <i>Composites Science and Technology</i> , 2018, 156, 95-102.	7.8	59
24	Synthesis, properties and thermal behavior of poly(decylene-2,5-furanoate): a biobased polyester from 2,5-furan dicarboxylic acid. <i>RSC Advances</i> , 2015, 5, 74592-74604.	3.6	57
25	PMMA-grafted graphene nanoplatelets to reinforce the mechanical and thermal properties of PMMA composites. <i>Carbon</i> , 2020, 157, 750-760.	10.3	56
26	Micromechanics of reinforcement of a graphene-based thermoplastic elastomer nanocomposite. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 110, 84-92.	7.6	53
27	Hybrid poly(ether ether ketone) composites reinforced with a combination of carbon fibres and graphene nanoplatelets. <i>Composites Science and Technology</i> , 2019, 175, 60-68.	7.8	52
28	Sustainable Additive Manufacturing: Mechanical Response of Polypropylene over Multiple Recycling Processes. <i>Sustainability</i> , 2021, 13, 159.	3.2	51
29	Effect of crystalline structure of polypropylene random copolymers on mechanical properties and thermal degradation kinetics. <i>Thermochimica Acta</i> , 2012, 543, 288-294.	2.7	50
30	On the bio-based furanic polyesters: Synthesis and thermal behavior study of poly(octylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 T 2015, 68, 115-127.	5.4	49
31	Crystallization and melting of propylene-ethylene random copolymers. Homogeneous nucleation and \hat{I}^2 -nucleating agents. <i>European Polymer Journal</i> , 2013, 49, 1577-1590.	5.4	47
32	\hat{I}^2 -nucleated propylene-ethylene random copolymer filled with multi-walled carbon nanotubes: Mechanical, thermal and rheological properties. <i>Polymer</i> , 2014, 55, 3758-3769.	3.8	45
33	Hydrogel matrices based on elastin and alginate for tissue engineering applications. <i>International Journal of Biological Macromolecules</i> , 2018, 114, 614-625.	7.5	45
34	Multifunctional Biocomposites Based on Polyhydroxyalkanoate and Graphene/Carbon Nanofiber Hybrids for Electrical and Thermal Applications. <i>ACS Applied Polymer Materials</i> , 2020, 2, 3525-3534.	4.4	44
35	Sustainable Polymers from Renewable Resources: Polymer Blends of Furan-Based Polyesters. <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1800153.	3.6	43
36	Effect of clay structure and type of organomodifier on the thermal properties of poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	2.7	42

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37	Exploring Next-Generation Engineering Bioplastics: Poly(alkylene furanoate)/Poly(alkylene Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	4.5	40
38	Mechanical properties of graphene. Applied Physics Reviews, 2021, 8, .	11.3	37
39	Soft-matrices based on silk fibroin and alginate for tissue engineering. International Journal of Biological Macromolecules, 2016, 93, 1420-1431.	7.5	35
40	Green polymeric materials: On the dynamic homogeneity and miscibility of furan-based polyester blends. Polymer, 2019, 174, 187-199.	3.8	34
41	Crystallization and Melting Behavior of Poly(Butylene Succinate) Nanocomposites Containing Silica-Nanotubes and Strontium Hydroxyapatite Nanorods. Industrial & Engineering Chemistry Research, 2014, 53, 678-692.	3.7	33
42	Synthesis and Characterization of In-Situ-Prepared Nanocomposites Based on Poly(Propylene 2,5-Furan) Tj ETQq0 0.0 rgBT /Overlock 10	4.5	33
43	Interfacial stress transfer in strain engineered wrinkled and folded graphene. 2D Materials, 2019, 6, 045026.	4.4	32
44	Isotactic Polypropylene/Multi-Walled Carbon Nanotube Nanocomposites: The Effect of Modification of MWCNTs on Mechanical Properties and Melt Crystallization. Macromolecular Chemistry and Physics, 2013, 214, 2415-2431.	2.2	31
45	Thermal degradation kinetics and decomposition mechanism of PBSu nanocomposites with silica-nanotubes and strontium hydroxyapatite nanorods. Physical Chemistry Chemical Physics, 2014, 16, 4830.	2.8	29
46	Competitive Crystallization of a Propylene/Ethylene Random Copolymer Filled with a β -Nucleating Agent and Multi-Walled Carbon Nanotubes. Conventional and Ultrafast DSC Study. Journal of Physical Chemistry B, 2013, 117, 14875-14884.	2.6	27
47	Modelling mechanical percolation in graphene-reinforced elastomer nanocomposites. Composites Part B: Engineering, 2019, 178, 107506.	12.0	27
48	An Electrically Conductive Oleogel Paste for Edible Electronics. Advanced Functional Materials, 2022, 32, .	14.9	26
49	Effect of nanofiller's size and shape on the solid state microstructure and thermal properties of poly(butylene succinate) nanocomposites. Thermochimica Acta, 2014, 590, 181-190.	2.7	25
50	Graphene-Polyurethane Coatings for Deformable Conductors and Electromagnetic Interference Shielding. Advanced Electronic Materials, 2020, 6, 2000429.	5.1	25
51	Enhanced interfacial properties of hierarchical MXene/CF composites via low content electrophoretic deposition. Composites Part B: Engineering, 2022, 237, 109871.	12.0	25
52	Effect of surface functionalization of halloysite nanotubes on synthesis and thermal properties of poly(μ -caprolactone). Journal of Materials Science, 2018, 53, 6519-6541.	3.7	23
53	Amino-Functionalized Multiwalled Carbon Nanotubes Lead to Successful Ring-Opening Polymerization of Poly(μ -caprolactone): Enhanced Interfacial Bonding and Optimized Mechanical Properties. ACS Applied Materials & Interfaces, 2015, 7, 11683-11694.	8.0	21
54	Self-powered ultrasensitive and highly stretchable temperature-strain sensing composite yarns. Materials Horizons, 2021, 8, 2513-2519.	12.2	21

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55	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
56	Synergistic Effect of Functionalized Silica Nanoparticles and a Nucleating Agent for the Improvement of the Mechanical Properties of a Propylene/Ethylene Random Copolymer. Macromolecular Materials and Engineering, 2014, 299, 707-721.	3.6	18
57	The strength of mechanically-exfoliated monolayer graphene deformed on a rigid polymer substrate. Nanoscale, 2019, 11, 14339-14353.	5.6	18
58	Thermal Decomposition Kinetics and Mechanism of In-Situ Prepared Bio-Based Poly(propylene 2,5-furan) Tj ETQq0 0 0 rgBT /Overlock 10	3.8	18
59	High-performance fluoroelastomer-graphene nanocomposites for advanced sealing applications. Composites Science and Technology, 2021, 202, 108592.	7.8	18
60	Solid-state structure and thermal characteristics of a sustainable biobased copolymer: Poly(butylene Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.7	16
61	Effect of MWCNTs and their modification on crystallization and thermal degradation of poly(butylene naphthalate). Thermochimica Acta, 2017, 656, 59-69.	2.7	16
62	Light-Driven Actuation in Synthetic Polymers: A Review from Fundamental Concepts to Applications. Advanced Optical Materials, 2022, 10, .	7.3	16
63	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. Journal of Analytical and Applied Pyrolysis, 2015, 115, 125-131.	5.5	14
64	Highly stretchable and sensitive self-powered sensors based on the N-Type thermoelectric effect of polyurethane/Nax(Ni-ett)n/graphene oxide composites. Composites Communications, 2021, 28, 100952.	6.3	14
65	Sustainable thermoplastics from renewable resources: Thermal behavior of poly(1,4-cyclohexane) Tj ETQq1 1 0.784314 rgBT /Overlock 1	3.4	13
66	Towards increased sustainability for aromatic polyesters: Poly(butylene 2,5-furandicarboxylate) and its blends with poly(butylene terephthalate). Polymer, 2021, 212, 123157.	3.8	13
67	Decoration of SiO2 and Fe3O4 Nanoparticles onto the Surface of MWCNT-Grafted Glass Fibers: A Simple Approach for the Creation of Binary Nanoparticle Hierarchical and Multifunctional Composite Interphases. Nanomaterials, 2020, 10, 2500.	4.1	11
68	A New Era in Engineering Plastics: Compatibility and Perspectives of Sustainable Aliphromatic Poly(ethylene terephthalate)/Poly(ethylene 2,5-furandicarboxylate) Blends. Polymers, 2021, 13, 1070.	4.5	10
69	Graphene Nanoplatelets as a Replacement for Carbon Black in Rubber Compounds. Polymers, 2022, 14, 1204.	4.5	10
70	Effect of clay modification on structure-property relationships and thermal degradation kinetics of $\hat{1}^2$ -polypropylene/clay composite materials. Journal of Thermal Analysis and Calorimetry, 2015, 122, 393-406.	3.6	8
71	Anisotropic swelling of elastomers filled with aligned 2D materials. 2D Materials, 2020, 7, 025031.	4.4	8
72	Best of Both Worlds: Synergistically Derived Material Properties via Additive Manufacturing of Nanocomposites. Advanced Functional Materials, 2021, 31, 2103334.	14.9	8

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73	Effect of Silica Nanoparticles Modification on the Thermal, Structural, and Decomposition Properties of a β -Nucleated Poly(propylene-co-ethylene) Matrix. <i>Macromolecular Chemistry and Physics</i> , 2014, 215, 839-850.	2.2	7
74	Realising biaxial reinforcement <i>via</i> orientation-induced anisotropic swelling in graphene-based elastomers. <i>Nanoscale</i> , 2020, 12, 3377-3386.	5.6	7
75	Deformation and tearing of graphene-reinforced elastomer nanocomposites. <i>Composites Communications</i> , 2021, 25, 100764.	6.3	5
76	Controlling and Monitoring Crack Propagation in Monolayer Graphene Single Crystals. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	4
77	Synthesis and controlled crystallization of <i>in situ</i> prepared poly(butylene-2,6-naphthalate) nanocomposites. <i>CrystEngComm</i> , 2018, 20, 3590-3600.	2.6	3
78	Graphene nano-flakes on Cu low-index surfaces by density functional theory and molecular dynamics simulations. <i>Frontiers of Nanoscience</i> , 2020, 17, 141-159.	0.6	2
79	Utilising buckling modes for the determination of the anisotropic mechanical properties of As_2S_3 nanosheets. <i>Nanoscale</i> , 2022, 14, 7872-7880.	5.6	2
80	Best of Both Worlds: Synergistically Derived Material Properties via Additive Manufacturing of Nanocomposites (<i>Adv. Funct. Mater.</i> 46/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170343.	14.9	0
81	Significant interlayer coupling in bilayer graphene and double-walled carbon nanotubes: A refinement of obtaining strain in low-dimensional materials. <i>Physical Review B</i> , 2022, 105, .	3.2	0