Dimitrios G Papageorgiou

List of Publications by Citations

77 papers	4,261 citations	31 h-index	65 g-index
81 ext. papers	5,230 ext. citations	6.8 avg, IF	6.21 L-index

#	Paper	IF	Citations
77	Mechanical properties of graphene and graphene-based nanocomposites. *Progress in Materials Science*, **2017**, 90, 75-127	42.2	1091
76	Production of bio-based 2,5-furan dicarboxylate polyesters: Recent progress and critical aspects in their synthesis and thermal properties. *European Polymer Journal*, **2016**, 83, 202-229	5.2	269
75	Fabrication of alginate-gelatin crosslinked hydrogel microcapsules and evaluation of the microstructure and physico-chemical properties. *Journal of Materials Chemistry B*, **2014**, 2, 1470-1482	7.3	250
74	Graphene/elastomer nanocomposites. *Carbon*, **2015**, 95, 460-484	10.4	230
73	Electrical percolation in graphene polymer composites. *2D Materials*, **2018**, 5, 032003	5.9	181
72	The mechanics of reinforcement of polymers by graphene nanoplatelets. *Composites Science and Technology*, **2018**, 154, 110-116	8.6	152
71	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. *Polymer*, **2015**, 62, 28-38	3.9	134
70	Evaluation of polyesters from renewable resources as alternatives to the current fossil-based polymers. Phase transitions of poly(butylene 2,5-furan-dicarboxylate). *Polymer*, **2014**, 55, 3846-3858	3.9	133
69	Mechanisms of mechanical reinforcement by graphene and carbon nanotubes in polymer nanocomposites. *Nanoscale*, **2020**, 12, 2228-2267	7.7	121
68	Furan-based polyesters from renewable resources: Crystallization and thermal degradation behavior of poly(hexamethylene 2,5-furan-dicarboxylate). *European Polymer Journal*, **2015**, 67, 383-396	5.2	97
67	Crystallization and Polymorphism of Poly(ethylene furanoate). *Crystal Growth and Design*, **2015**, 15, 5505-5512	3.9	85
66	Thermal degradation kinetics and decomposition mechanism of polyesters based on 2,5-furandicarboxylic acid and low molecular weight aliphatic diols. *Journal of Analytical and Applied Pyrolysis*, **2015**, 112, 369-378	6	73
65	Hybrid multifunctional graphene/glass-fibre polypropylene composites. *Composites Science and Technology*, **2016**, 137, 44-51	8.6	66
64	Nucleated Polypropylene: Processing, Properties and Nanocomposites. *Polymer Reviews*, **2015**, 55, 596-629	14	61
63	Fast Crystallization and Melting Behavior of a Long-Spaced Aliphatic Furandicarboxylate Biobased Polyester, Poly(dodecylene 2,5-furanoate). *Industrial & Engineering Chemistry Research*, **2016**, 55, 5315-5326	3.9	57
62	Kinetics of nucleation and crystallization in poly(butylene succinate) nanocomposites. *Polymer*, **2014**, 55, 6725-6734	3.9	55
61	Tuning the Properties of Furandicarboxylic Acid-Based Polyesters with Copolymerization: A Review. *Polymers*, **2020**, 12,	4.5	53

60	Poly(ethylene furanoate-co-ethylene terephthalate) biobased copolymers: Synthesis, thermal properties and cocrystallization behavior. *European Polymer Journal*, **2017**, 89, 349-366	5.2	52
59	Hybrid hydrogels based on keratin and alginate for tissue engineering. *Journal of Materials Chemistry B*, **2014**, 2, 5441-5451	7.3	51
58	Sustainable, eco-friendly polyesters synthesized from renewable resources: preparation and thermal characteristics of poly(dimethyl-propylene furanoate). *Polymer Chemistry*, **2015**, 6, 8284-8296	4.9	50
57	Synthesis, properties and thermal behavior of poly(decylene-2,5-furanoate): a biobased polyester from 2,5-furan dicarboxylic acid. *RSC Advances*, **2015**, 5, 74592-74604	3.7	48
56	Biobased poly(ethylene furanoate-co-ethylene succinate) copolyesters: solid state structure, melting point depression and biodegradability. *RSC Advances*, **2016**, 6, 84003-84015	3.7	44
55	On the bio-based furanic polyesters: Synthesis and thermal behavior study of poly(octylene furanoate) using fast and temperature modulated scanning calorimetry. *European Polymer Journal*, **2015**, 68, 115-127	5.2	43
54	Enhanced thermal and fire retardancy properties of polypropylene reinforced with a hybrid graphene/glass-fibre filler. *Composites Science and Technology*, **2018**, 156, 95-102	8.6	43
53	Crystallization and melting of propylene□ethylene random copolymers. Homogeneous nucleation and □nucleating agents. *European Polymer Journal*, **2013**, 49, 1577-1590	5.2	43
52	Effect of crystalline structure of polypropylene random copolymers on mechanical properties and thermal degradation kinetics. *Thermochimica Acta*, **2012**, 543, 288-294	2.9	41
51	□nucleated propylene□ethylene random copolymer filled with multi-walled carbon nanotubes: Mechanical, thermal and rheological properties. *Polymer*, **2014**, 55, 3758-3769	3.9	37
50	Effect of clay structure and type of organomodifier on the thermal properties of poly(ethylene terephthalate) based nanocomposites. *Thermochimica Acta*, **2014**, 576, 84-96	2.9	36
49	Micromechanics of reinforcement of a graphene-based thermoplastic elastomer nanocomposite. *Composites Part A: Applied Science and Manufacturing*, **2018**, 110, 84-92	8.4	34
48	Hybrid poly(ether ether ketone) composites reinforced with a combination of carbon fibres and graphene nanoplatelets. *Composites Science and Technology*, **2019**, 175, 60-68	8.6	33
47	Hydrogel matrices based on elastin and alginate for tissue engineering applications. *International Journal of Biological Macromolecules*, **2018**, 114, 614-625	7.9	33
46	PMMA-grafted graphene nanoplatelets to reinforce the mechanical and thermal properties of PMMA composites. *Carbon*, **2020**, 157, 750-760	10.4	30
45	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	2.6	29
44	Crystallization and Melting Behavior of Poly(Butylene Succinate) Nanocomposites Containing Silica-Nanotubes and Strontium Hydroxyapatite Nanorods. *Industrial & Engineering Chemistry Research*, **2014**, 53, 678-692	3.9	28
43	Sustainable Polymers from Renewable Resources: Polymer Blends of Furan-Based Polyesters. *Macromolecular Materials and Engineering*, **2018**, 303, 1800153	3.9	28

42	Exploring Next-Generation Engineering Bioplastics: Poly(alkylene furanoate)/Poly(alkylene terephthalate) (PAF/PAT) Blends. *Polymers*, **2019**, 11,	4.5	26
41	Soft-matrices based on silk fibroin and alginate for tissue engineering. *International Journal of Biological Macromolecules*, **2016**, 93, 1420-1431	7.9	26
40	Effect of nanofiller size and shape on the solid state microstructure and thermal properties of poly(butylene succinate) nanocomposites. *Thermochimica Acta*, **2014**, 590, 181-190	2.9	24
39	Competitive crystallization of a propylene/ethylene random copolymer filled with a nucleating agent and multi-walled carbon nanotubes. Conventional and ultrafast DSC study. *Journal of Physical Chemistry B*, **2013**, 117, 14875-84	3.4	24
38	Thermal degradation kinetics and decomposition mechanism of PBSu nanocomposites with silica-nanotubes and strontium hydroxyapatite nanorods. *Physical Chemistry Chemical Physics*, **2014**, 16, 4830-42	3.6	23
37	Green polymeric materials: On the dynamic homogeneity and miscibility of furan-based polyester blends. *Polymer*, **2019**, 174, 187-199	3.9	21
36	Amino-Functionalized Multiwalled Carbon Nanotubes Lead to Successful Ring-Opening Polymerization of Poly(caprolactone): Enhanced Interfacial Bonding and Optimized Mechanical Properties. *ACS Applied Materials & Interfaces*, **2015**, 7, 11683-94	9.5	20
35	Interfacial stress transfer in strain engineered wrinkled and folded graphene. *2D Materials*, **2019**, 6, 045026	7.9	20
34	Multifunctional Biocomposites Based on Polyhydroxyalkanoate and Graphene/Carbon Nanofiber Hybrids for Electrical and Thermal Applications. *ACS Applied Polymer Materials*, **2020**, 2, 3525-3534	4.3	20
33	Synthesis and Characterization of In-Situ-Prepared Nanocomposites Based on Poly(Propylene 2,5-Furan Dicarboxylate) and Aluminosilicate Clays. *Polymers*, **2018**, 10,	4.5	19
32	Sustainable Additive Manufacturing: Mechanical Response of Polypropylene over Multiple Recycling Processes. *Sustainability*, **2021**, 13, 159	3.6	17
31	Effect of surface functionalization of halloysite nanotubes on synthesis and thermal properties of poly(caprolactone). *Journal of Materials Science*, **2018**, 53, 6519-6541	4.3	16
30	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	3.9	16
29	Solid-state structure and thermal characteristics of a sustainable biobased copolymer: Poly(butylene succinate-co-furanoate). *Thermochimica Acta*, **2017**, 656, 112-122	2.9	15
28	Modelling mechanical percolation in graphene-reinforced elastomer nanocomposites. *Composites Part B: Engineering*, **2019**, 178, 107506	10	14
27	Effect of MWCNTs and their modification on crystallization and thermal degradation of poly(butylene naphthalate). *Thermochimica Acta*, **2017**, 656, 59-69	2.9	14
26	Thermal Decomposition Kinetics and Mechanism of In-Situ Prepared Bio-based Poly(propylene 2,5-furan dicarboxylate)/Graphene Nanocomposites. *Molecules*, **2019**, 24,	4.8	13
25	The strength of mechanically-exfoliated monolayer graphene deformed on a rigid polymer substrate. *Nanoscale*, **2019**, 11, 14339-14353	7.7	12

24	Mechanical properties of graphene. *Applied Physics Reviews*, **2021**, 8, 021310	17.3	12
23	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	6	10
22	Sustainable thermoplastics from renewable resources: Thermal behavior of poly(1,4-cyclohexane dimethylene 2,5-furandicarboxylate). *European Polymer Journal*, **2019**, 112, 1-14	5.2	9
21	Effect of clay modification on structure property relationships and thermal degradation kinetics of polypropylene/clay composite materials. *Journal of Thermal Analysis and Calorimetry*, **2015**, 122, 393-406	4.1	8
20	Graphene Polyurethane Coatings for Deformable Conductors and Electromagnetic Interference Shielding. *Advanced Electronic Materials*, **2020**, 6, 2000429	6.4	8
19	Decoration of SiO and FeO 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,	5.4	6
18	High-performance fluoroelastomer-graphene nanocomposites for advanced sealing applications. *Composites Science and Technology*, **2021**, 202, 108592	8.6	6
17	Self-powered ultrasensitive and highly stretchable temperature-strain sensing composite yarns. *Materials Horizons*, **2021**, 8, 2513-2519	14.4	6
16	An Electrically Conductive Oleogel Paste for Edible Electronics. *Advanced Functional Materials*,2113417	15.6	6
15	Effect of Silica Nanoparticles Modification on the Thermal, Structural, and Decomposition Properties of a Nucleated Poly(propylene-co-ethylene) Matrix. *Macromolecular Chemistry and Physics*, **2014**, 215, 839-850	2.6	5
14	Towards increased sustainability for aromatic polyesters: Poly(butylene 2,5-furandicarboxylate) and its blends with poly(butylene terephthalate). *Polymer*, **2021**, 212, 123157	3.9	5
13	Multifunctional epoxy nanocomposites reinforced by two-dimensional materials: A review. *Carbon*, **2021**, 185, 57-81	10.4	5
12	Anisotropic swelling of elastomers filled with aligned 2D materials. *2D Materials*, **2020**, 7, 025031	5.9	4
11	Realising biaxial reinforcement via orientation-induced anisotropic swelling in graphene-based elastomers. *Nanoscale*, **2020**, 12, 3377-3386	7.7	4
10	A New Era in Engineering Plastics: Compatibility and Perspectives of Sustainable Alipharomatic Poly(ethylene terephthalate)/Poly(ethylene 2,5-furandicarboxylate) Blends. *Polymers*, **2021**, 13,	4.5	4
9	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	6.7	2
8	Synthesis and controlled crystallization of in situ prepared poly(butylene-2,6-naphthalate) nanocomposites. *CrystEngComm*, **2018**, 20, 3590-3600	3.3	2
7	Best of Both Worlds: Synergistically Derived Material Properties via Additive Manufacturing of Nanocomposites. *Advanced Functional Materials*, **2021**, 31, 2103334	15.6	2

6	Light-Driven Actuation in Synthetic Polymers: A Review from Fundamental Concepts to Applications. *Advanced Optical Materials*,2102186	8.1	2
5	Graphene nano-flakes on Cu low-index surfaces by density functional theory and molecular dynamics simulations. *Frontiers of Nanoscience*, **2020**, 17, 141-159	0.7	0
4	Deformation and tearing of graphene-reinforced elastomer nanocomposites. *Composites Communications*, **2021**, 25, 100764	6.7	0
3	Enhanced interfacial properties of hierarchical MXene/CF composites via low content electrophoretic deposition. *Composites Part B: Engineering*, **2022**, 237, 109871	10	0
2	Best of Both Worlds: Synergistically Derived Material Properties via Additive Manufacturing of Nanocomposites (Adv. Funct. Mater. 46/2021). *Advanced Functional Materials*, **2021**, 31, 2170343	15.6	
1	Controlling and Monitoring Crack Propagation in Monolayer Graphene Single Crystals. *Advanced Functional Materials*,2202373	15.6	