

Dimitrios G Papageorgiou

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Enhanced interfacial properties of hierarchical MXene/CF composites via low content electrophoretic deposition. <i>Composites Part B: Engineering</i> , 2022 , 237, 109871	10	0
76	Best of Both Worlds: Synergistically Derived Material Properties via Additive Manufacturing of Nanocomposites (Adv. Funct. Mater. 46/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170343	15.6	
75	Sustainable Additive Manufacturing: Mechanical Response of Polypropylene over Multiple Recycling Processes. <i>Sustainability</i> , 2021 , 13, 159	3.6	17
74	Highly stretchable and sensitive self-powered sensors based on the N-Type thermoelectric effect of polyurethane/Nax(Ni-ett)n/graphene oxide composites. <i>Composites Communications</i> , 2021 , 28, 100952	6.7	2
73	A New Era in Engineering Plastics: Compatibility and Perspectives of Sustainable Aliphatic Poly(ethylene terephthalate)/Poly(ethylene 2,5-furandicarboxylate) Blends. <i>Polymers</i> , 2021 , 13,	4.5	4
72	Deformation and tearing of graphene-reinforced elastomer nanocomposites. <i>Composites Communications</i> , 2021 , 25, 100764	6.7	0
71	Mechanical properties of graphene. <i>Applied Physics Reviews</i> , 2021 , 8, 021310	17.3	12
70	High-performance fluoroelastomer-graphene nanocomposites for advanced sealing applications. <i>Composites Science and Technology</i> , 2021 , 202, 108592	8.6	6
69	Towards increased sustainability for aromatic polyesters: Poly(butylene 2,5-furandicarboxylate) and its blends with poly(butylene terephthalate). <i>Polymer</i> , 2021 , 212, 123157	3.9	5
68	Best of Both Worlds: Synergistically Derived Material Properties via Additive Manufacturing of Nanocomposites. <i>Advanced Functional Materials</i> , 2021 , 31, 2103334	15.6	2
67	Multifunctional epoxy nanocomposites reinforced by two-dimensional materials: A review. <i>Carbon</i> , 2021 , 185, 57-81	10.4	5
66	Self-powered ultrasensitive and highly stretchable temperature-strain sensing composite yarns. <i>Materials Horizons</i> , 2021 , 8, 2513-2519	14.4	6
65	Tuning the Properties of Furandicarboxylic Acid-Based Polyesters with Copolymerization: A Review. <i>Polymers</i> , 2020 , 12,	4.5	53
64	Anisotropic swelling of elastomers filled with aligned 2D materials. <i>2D Materials</i> , 2020 , 7, 025031	5.9	4
63	Realising biaxial reinforcement via orientation-induced anisotropic swelling in graphene-based elastomers. <i>Nanoscale</i> , 2020 , 12, 3377-3386	7.7	4
62	PMMA-grafted graphene nanoplatelets to reinforce the mechanical and thermal properties of PMMA composites. <i>Carbon</i> , 2020 , 157, 750-760	10.4	30
61	Mechanisms of mechanical reinforcement by graphene and carbon nanotubes in polymer nanocomposites. <i>Nanoscale</i> , 2020 , 12, 2228-2267	7.7	121

60	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	0.7	0
59	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	4.3	20
58	Graphene/Polyurethane Coatings for Deformable Conductors and Electromagnetic Interference Shielding. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000429	6.4	8
57	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. <i>Nanomaterials</i> , 2020 , 10,	5.4	6
56	Modelling mechanical percolation in graphene-reinforced elastomer nanocomposites. <i>Composites Part B: Engineering</i> , 2019 , 178, 107506	10	14
55	Thermal Decomposition Kinetics and Mechanism of In-Situ Prepared Bio-based Poly(propylene 2,5-furan dicarboxylate)/Graphene Nanocomposites. <i>Molecules</i> , 2019 , 24,	4.8	13
54	Exploring Next-Generation Engineering Bioplastics: Poly(alkylene furanoate)/Poly(alkylene terephthalate) (PAF/PAT) Blends. <i>Polymers</i> , 2019 , 11,	4.5	26
53	Green polymeric materials: On the dynamic homogeneity and miscibility of furan-based polyester blends. <i>Polymer</i> , 2019 , 174, 187-199	3.9	21
52	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	8.6	33
51	The strength of mechanically-exfoliated monolayer graphene deformed on a rigid polymer substrate. <i>Nanoscale</i> , 2019 , 11, 14339-14353	7.7	12
50	Interfacial stress transfer in strain engineered wrinkled and folded graphene. <i>2D Materials</i> , 2019 , 6, 045026	9.9	20
49	Sustainable thermoplastics from renewable resources: Thermal behavior of poly(1,4-cyclohexane dimethylene 2,5-furandicarboxylate). <i>European Polymer Journal</i> , 2019 , 112, 1-14	5.2	9
48	Micromechanics of reinforcement of a graphene-based thermoplastic elastomer nanocomposite. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018 , 110, 84-92	8.4	34
47	Effect of surface functionalization of halloysite nanotubes on synthesis and thermal properties of poly(E-caprolactone). <i>Journal of Materials Science</i> , 2018 , 53, 6519-6541	4.3	16
46	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	8.6	43
45	Electrical percolation in graphene/polymer composites. <i>2D Materials</i> , 2018 , 5, 032003	5.9	181
44	Hydrogel matrices based on elastin and alginate for tissue engineering applications. <i>International Journal of Biological Macromolecules</i> , 2018 , 114, 614-625	7.9	33
43	The mechanics of reinforcement of polymers by graphene nanoplatelets. <i>Composites Science and Technology</i> , 2018 , 154, 110-116	8.6	152

42	Synthesis and Characterization of In-Situ-Prepared Nanocomposites Based on Poly(Propylene 2,5-Furan Dicarboxylate) and Aluminosilicate Clays. <i>Polymers</i> , 2018 , 10,	4.5	19
41	Sustainable Polymers from Renewable Resources: Polymer Blends of Furan-Based Polyesters. <i>Macromolecular Materials and Engineering</i> , 2018 , 303, 1800153	3.9	28
40	Synthesis and controlled crystallization of in situ prepared poly(butylene-2,6-naphthalate) nanocomposites. <i>CrystEngComm</i> , 2018 , 20, 3590-3600	3.3	2
39	Poly(ethylene furanoate-co-ethylene terephthalate) biobased copolymers: Synthesis, thermal properties and cocrystallization behavior. <i>European Polymer Journal</i> , 2017 , 89, 349-366	5.2	52
38	Solid-state structure and thermal characteristics of a sustainable biobased copolymer: Poly(butylene succinate-co-furanoate). <i>Thermochimica Acta</i> , 2017 , 656, 112-122	2.9	15
37	Effect of MWCNTs and their modification on crystallization and thermal degradation of poly(butylene naphthalate). <i>Thermochimica Acta</i> , 2017 , 656, 59-69	2.9	14
36	Mechanical properties of graphene and graphene-based nanocomposites. <i>Progress in Materials Science</i> , 2017 , 90, 75-127	42.2	1091
35	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	5.2	269
34	Hybrid multifunctional graphene/glass-fibre polypropylene composites. <i>Composites Science and Technology</i> , 2016 , 137, 44-51	8.6	66
33	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	3.9	57
32	Soft-matrices based on silk fibroin and alginate for tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2016 , 93, 1420-1431	7.9	26
31	Biobased poly(ethylene furanoate-co-ethylene succinate) copolyesters: solid state structure, melting point depression and biodegradability. <i>RSC Advances</i> , 2016 , 6, 84003-84015	3.7	44
30	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	3.9	134
29	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. <i>Journal of Analytical and Applied Pyrolysis</i> , 2015 , 115, 125-131	6	10
28	Enucleated Polypropylene: Processing, Properties and Nanocomposites. <i>Polymer Reviews</i> , 2015 , 55, 596-629	14	61
27	Effect of clay modification on structure-property relationships and thermal degradation kinetics of Polypropylene/clay composite materials. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015 , 122, 393-406	4.1	8
26	Amino-Functionalized Multiwalled Carbon Nanotubes Lead to Successful Ring-Opening Polymerization of Poly(ε-caprolactone): Enhanced Interfacial Bonding and Optimized Mechanical Properties. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 11683-94	9.5	20
25	On the bio-based furanic polyesters: Synthesis and thermal behavior study of poly(octylene furanoate) using fast and temperature modulated scanning calorimetry. <i>European Polymer Journal</i> , 2015 , 68, 115-127	5.2	43

24	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	4.9	50
23	Crystallization and Polymorphism of Poly(ethylene furanoate). <i>Crystal Growth and Design</i> , 2015 , 15, 5505-5512	5.5	85
22	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	3.7	48
21	Graphene/elastomer nanocomposites. <i>Carbon</i> , 2015 , 95, 460-484	10.4	230
20	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	6	73
19	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	5.2	97
18	Effect of clay structure and type of organomodifier on the thermal properties of poly(ethylene terephthalate) based nanocomposites. <i>Thermochimica Acta</i> , 2014 , 576, 84-96	2.9	36
17	Thermal degradation kinetics and decomposition mechanism of PBSu nanocomposites with silica-nanotubes and strontium hydroxyapatite nanorods. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 4830-42	3.6	23
16	Crystallization and Melting Behavior of Poly(Butylene Succinate) Nanocomposites Containing Silica-Nanotubes and Strontium Hydroxyapatite Nanorods. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 678-692	3.9	28
15	Kinetics of nucleation and crystallization in poly(butylene succinate) nanocomposites. <i>Polymer</i> , 2014 , 55, 6725-6734	3.9	55
14	Effect of nanofiller size and shape on the solid state microstructure and thermal properties of poly(butylene succinate) nanocomposites. <i>Thermochimica Acta</i> , 2014 , 590, 181-190	2.9	24
13	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	3.9	133
12	Nucleated propylene/ethylene random copolymer filled with multi-walled carbon nanotubes: Mechanical, thermal and rheological properties. <i>Polymer</i> , 2014 , 55, 3758-3769	3.9	37
11	Hybrid hydrogels based on keratin and alginate for tissue engineering. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 5441-5451	7.3	51
10	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, 1470-1482	7.3	250
9	Synergistic Effect of Functionalized Silica Nanoparticles and a Nucleating Agent for the Improvement of the Mechanical Properties of a Propylene/Ethylene Random Copolymer. <i>Macromolecular Materials and Engineering</i> , 2014 , 299, 707-721	3.9	16
8	Effect of Silica Nanoparticles Modification on the Thermal, Structural, and Decomposition Properties of a Nucleated Poly(propylene-co-ethylene) Matrix. <i>Macromolecular Chemistry and Physics</i> , 2014 , 215, 839-850	2.6	5
7	Crystallization and melting of propylene/ethylene random copolymers. Homogeneous nucleation and nucleating agents. <i>European Polymer Journal</i> , 2013 , 49, 1577-1590	5.2	43

6	Competitive crystallization of a propylene/ethylene random copolymer filled with a nucleating agent and multi-walled carbon nanotubes. Conventional and ultrafast DSC study. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 14875-84	3.4	24
5	Isotactic Polypropylene/Multi-Walled Carbon Nanotube Nanocomposites: The Effect of Modification of MWCNTs on Mechanical Properties and Melt Crystallization. <i>Macromolecular Chemistry and Physics</i> , 2013 , 214, 2415-2431	2.6	29
4	Effect of crystalline structure of polypropylene random copolymers on mechanical properties and thermal degradation kinetics. <i>Thermochimica Acta</i> , 2012 , 543, 288-294	2.9	41
3	An Electrically Conductive Oleogel Paste for Edible Electronics. <i>Advanced Functional Materials</i> , 2113417	15.6	6
2	Light-Driven Actuation in Synthetic Polymers: A Review from Fundamental Concepts to Applications. <i>Advanced Optical Materials</i> , 2102186	8.1	2
1	Controlling and Monitoring Crack Propagation in Monolayer Graphene Single Crystals. <i>Advanced Functional Materials</i> , 2202373	15.6	