

# Pere Castell

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

1,280  
citations

279798

23  
h-index

361022

35  
g-index

43  
all docs

43  
docs citations

43  
times ranked

1696  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of gamma-irradiation on UHMWPE/MWNT nanocomposites. <i>Composites Science and Technology</i> , 2011, 71, 282-288.	7.8	117
2	The effect of gamma-irradiation on few-layered graphene materials. <i>Applied Surface Science</i> , 2014, 301, 264-272.	6.1	104
3	Multi-walled carbon nanotubes acting as free radical scavengers in gamma-irradiated ultrahigh molecular weight polyethylene composites. <i>Carbon</i> , 2012, 50, 2442-2452.	10.3	98
4	Carbon Nanotube Effect on Polyaniline Morphology in Water Dispersible Composites. <i>Journal of Physical Chemistry B</i> , 2010, 114, 1579-1585.	2.6	64
5	Covalent functionalization of MWCNTs with poly(p-phenylene sulphide) oligomers: a route to the efficient integration through a chemical approach. <i>Journal of Materials Chemistry</i> , 2012, 22, 21285.	6.7	58
6	Study of lanthanide triflates as new curing initiators for DGEBA. <i>Polymer</i> , 2000, 41, 8465-8474.	3.8	55
7	The effect of ultra-thin graphite on the morphology and physical properties of thermoplastic polyurethane elastomer composites. <i>Composites Science and Technology</i> , 2012, 72, 1595-1601.	7.8	55
8	Synthesis of New Epoxy Liquid-Crystalline Monomers with Azo Groups in the Central Mesogenic Core. Crosslinking with Amines. <i>Macromolecular Chemistry and Physics</i> , 2001, 202, 1649-1657.	2.2	46
9	Effect of Extrusion on the Mechanical and Rheological Properties of a Reinforced Poly(Lactic Acid): Reprocessing and Recycling of Biobased Materials. <i>Materials</i> , 2015, 8, 7106-7117.	2.9	44
10	Liquid-crystalline thermosets from liquid-crystalline epoxy resins containing bisazomethinebiphenylene mesogens in the central core: Copolymerization with a nonmesomorphic epoxy resin. <i>Journal of Polymer Science Part A</i> , 2004, 42, 3631-3643.	2.3	40
11	Sustainable Materials with Enhanced Mechanical Properties Based on Industrial Polyhydroxyalkanoates Reinforced with Organomodified Sepiolite and Montmorillonite. <i>Polymers</i> , 2019, 11, 696.	4.5	39
12	Surface modification of poly(propylene) by photoinitiators: Improvement of adhesion and wettability. <i>Journal of Applied Polymer Science</i> , 2004, 92, 2341-2350.	2.6	38
13	Anisotropic thermosets from liquid-crystalline azomethinic epoxy resins and primary aromatic diamines. <i>Journal of Polymer Science Part A</i> , 2003, 41, 1-12.	2.3	37
14	Nanofibrillar Polyaniline: Direct Route to Carbon Nanotube Water Dispersions of High Concentration. <i>Macromolecular Rapid Communications</i> , 2009, 30, 418-422.	3.9	35
15	Novel lightweight foamed poly(lactic acid) reinforced with different loadings of functionalised Sepiolite. <i>Composites Science and Technology</i> , 2014, 101, 17-23.	7.8	33
16	Non-Isothermal Crystallization Behavior of PEEK/Graphene Nanoplatelets Composites from Melt and Glass States. <i>Polymers</i> , 2019, 11, 124.	4.5	33
17	New liquid-crystalline thermosets from liquid-crystalline bisazomethinic epoxy resins with naphthylene disruptors in the central core. <i>Journal of Polymer Science Part A</i> , 2003, 41, 1536-1544.	2.3	30
18	Towards helical and Y-shaped carbon nanotubes: the role of sulfur in CVD processes. <i>Nanotechnology</i> , 2006, 17, 4292-4299.	2.6	30

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19	A rheological analysis of interactions in phenoxy/organoclay nanocomposites. <i>European Polymer Journal</i> , 2007, 43, 3171-3176.	5.4	30
20	Processing dependency of percolation threshold of MWCNTs in a thermoplastic elastomeric block copolymer. <i>Polymer</i> , 2011, 52, 1788-1796.	3.8	29
21	Kinetic studies of a UV-curable powder coating using photo-DSC, real-time FTIR and rheology. <i>Journal of Coatings Technology Research</i> , 2007, 4, 411-423.	2.5	27
22	How do graphite nanoplates affect the fracture toughness of polypropylene composites?. <i>Composites Science and Technology</i> , 2015, 111, 9-16.	7.8	27
23	Synthesis and properties of poly(hexamethylene terephthalate)/multiwall carbon nanotubes nanocomposites. <i>Composites Science and Technology</i> , 2010, 70, 789-796.	7.8	26
24	A novel approach to the chemical stabilization of gamma-irradiated ultrahigh molecular weight polyethylene using arc-discharge multi-walled carbon nanotubes. <i>Journal of Materials Science</i> , 2013, 48, 6549-6557.	3.7	18
25	Combination of two dispersants as a valuable strategy to prepare improved poly(vinyl Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 50	7.8	18
26	Study of wettability and improvement of adhesion of UV curable powder coatings on polypropylene substrates. <i>Journal of Applied Polymer Science</i> , 2007, 106, 3348-3358.	2.6	16
27	Enhancement of Tribological Behavior of Rolling Bearings by Applying a Multilayer ZrN/ZrCN Coating. <i>Coatings</i> , 2019, 9, 434.	2.6	15
28	Integration of block copolymer-wrapped single-wall carbon nanotubes into a trifunctional epoxy resin. Influence on thermal performance. <i>Polymer Degradation and Stability</i> , 2010, 95, 2065-2075.	5.8	14
29	Crosslinking of trimellitimide glycidyl ester derivatives. <i>Journal of Applied Polymer Science</i> , 1999, 72, 537-542.	2.6	13
30	Influence of Gamma Irradiation on Carbon Nanotube-Reinforced Polypropylene. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 6055-6063.	0.9	13
31	Analysis of self-lubrication enhancement via PA66 strategies: Texturing and nano-reinforcement with ZrO <sub>2</sub> and graphene. <i>Tribology International</i> , 2019, 131, 332-342.	5.9	13
32	Block Copolymer Assisted Dispersion of Single Walled Carbon Nanotubes and Integration into a Trifunctional Epoxy. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 6104-6112.	0.9	11
33	Tribological Performance of Nylon Composites with Nanoadditives for Self-Lubrication Purposes. <i>Polymers</i> , 2020, 12, 2253.	4.5	11
34	The effect of a semi-industrial masterbatch process on the carbon nanotube agglomerates and its influence in the properties of thermoplastic carbon nanotube composites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2017, 55, 189-197.	2.1	8
35	Bio-binders for the improvement of the performance of natural fibers as reinforcements in composites to increase the sustainability in the transport sector. <i>Mechanics of Advanced Materials and Structures</i> , 2021, 28, 1079-1087.	2.6	8
36	Nanofibrillar-Polyaniline/Carbon Nanotube Composites: Aqueous Dispersions and Films. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 6157-6163.	0.9	7

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37	Reducing off-Flavour in Commercially Available Polyhydroxyalkanoate Materials by Autooxidation through Compounding with Organoclays. <i>Polymers</i> , 2019, 11, 945.	4.5	6
38	The functionalization of carbon nanotubes using a batch oscillatory flow reactor. <i>Chemical Engineering Science</i> , 2012, 84, 544-551.	3.8	5
39	Influence of carbon nanotubes structures embedded in UHMWPE on bacterial adherence. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2018, 67, 934-941.	3.4	4
40	Color Fixation Strategies on Sustainable Poly-Butylene Succinate Using Biobased Itaconic Acid. <i>Polymers</i> , 2021, 13, 79.	4.5	4
41	Lightweight Medium-Sized Parts Made of Foamed HDPE Processed via Extrusion Blow Moulding: Analysis of Parison Formation. <i>Advances in Mechanical Engineering</i> , 2015, 7, 681293.	1.6	1