Pere Castell

List of Publications by Year
in descending order

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	Bio-binders for the improvement of the performance of natural fibers as reinforcements in composites to increase the sustainability in the transport sector. Mechanics of Advanced Materials and Structures, 2021, 28, 1079-1087.	2.6	8
2	Color Fixation Strategies on Sustainable Poly-Butylene Succinate Using Biobased Itaconic Acid. Polymers, 2021, 13, 79.	4.5	4
3	Tribological Performance of Nylon Composites with Nanoadditives for Self-Lubrication Purposes. Polymers, 2020, 12, 2253.	4.5	11
4	Enhancement of Tribological Behavior of Rolling Bearings by Applying a Multilayer ZrN/ZrCN Coating. Coatings, 2019, 9, 434.	2.6	15
5	Reducing off-Flavour in Commercially Available Polyhydroxyalkanoate Materials by Autooxidation through Compounding with Organoclays. Polymers, 2019, 11, 945.	4.5	6
6	Sustainable Materials with Enhanced Mechanical Properties Based on Industrial Polyhydroxyalkanoates Reinforced with Organomodified Sepiolite and Montmorillonite. Polymers, 2019, 11, 696.	4.5	39
7	Non-Isothermal Crystallization Behavior of PEEK/Graphene Nanoplatelets Composites from Melt and Glass States. Polymers, 2019, 11, 124.	4.5	33
8	Analysis of self-lubrication enhancement via PA66 strategies: Texturing and nano-reinforcement with ZrO2 and graphene. Tribology International, 2019, 131, 332-342.	5.9	13
9	Influence of carbon nanotubes structures embedded in UHMWPE on bacterial adherence. International Journal of Polymeric Materials and Polymeric Biomaterials, 2018, 67, 934-941.	3.4	4
10	The effect of a semiâ€industrial masterbatch process on the carbon nanotube agglomerates and its influence in the properties of thermoplastic carbon nanotube composites. Journal of Polymer Science, Part B: Polymer Physics, 2017, 55, 189-197.	2.1	8
11	Effect of Extrusion on the Mechanical and Rheological Properties of a Reinforced Poly(Lactic Acid): Reprocessing and Recycling of Biobased Materials. Materials, 2015, 8, 7106-7117.	2.9	44
12	Lightweight Medium-Sized Parts Made of Foamed HDPE Processed via Extrusion Blow Moulding: Analysis of Parison Formation. Advances in Mechanical Engineering, 2015, 7, 681293.	1.6	1
13	How do graphite nanoplates affect the fracture toughness of polypropylene composites?. Composites Science and Technology, 2015, 111, 9-16.	7.8	27
14	Novel lightweight foamed poly(lactic acid) reinforced with different loadings of functionalised Sepiolite. Composites Science and Technology, 2014, 101, 17-23.	7.8	33
15	The effect of gamma-irradiation on few-layered graphene materials. Applied Surface Science, 2014, 301, 264-272.	6.1	104
16	A novel approach to the chemical stabilization of gamma-irradiated ultrahigh molecular weight polyethylene using arc-discharge multi-walled carbon nanotubes. Journal of Materials Science, 2013, 48, 6549-6557.	3.7	18
17	Combination of two dispersants as a valuable strategy to prepare improved poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	7.8	18
18	The functionalization of carbon nanotubes using a batch oscillatory flow reactor. Chemical Engineering Science, 2012, 84, 544-551.	3.8	5

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19	Covalent functionalization of MWCNTs with poly(p-phenylene sulphide) oligomers: a route to the efficient integration through a chemical approach. Journal of Materials Chemistry, 2012, 22, 21285.	6.7	58
20	The effect of ultra-thin graphite on the morphology and physical properties of thermoplastic polyurethane elastomer composites. Composites Science and Technology, 2012, 72, 1595-1601.	7.8	55
21	Multi-walled carbon nanotubes acting as free radical scavengers in gamma-irradiated ultrahigh molecular weight polyethylene composites. Carbon, 2012, 50, 2442-2452.	10.3	98
22	Effects of gamma-irradiation on UHMWPE/MWNT nanocomposites. Composites Science and Technology, 2011, 71, 282-288.	7.8	117
23	Processing dependency of percolation threshold of MWCNTs in a thermoplastic elastomeric block copolymer. Polymer, 2011, 52, 1788-1796.	3.8	29
24	Integration of block copolymer-wrapped single-wall carbon nanotubes into a trifunctional epoxy resin. Influence on thermal performance. Polymer Degradation and Stability, 2010, 95, 2065-2075.	5.8	14
25	Synthesis and properties of poly(hexamethylene terephthalate)/multiwall carbon nanotubes nanocomposites. Composites Science and Technology, 2010, 70, 789-796.	7.8	26
26	Carbon Nanotube Effect on Polyaniline Morphology in Water Dispersible Composites. Journal of Physical Chemistry B, 2010, 114, 1579-1585.	2.6	64
27	Influence of Gamma Irradiation on Carbon Nanotube-Reinforced Polypropylene. Journal of Nanoscience and Nanotechnology, 2009, 9, 6055-6063.	0.9	13
28	Block Copolymer Assisted Dispersion of Single Walled Carbon Nanotubes and Integration into a Trifunctional Epoxy. Journal of Nanoscience and Nanotechnology, 2009, 9, 6104-6112.	0.9	11
29	Nanofibrilar Polyaniline: Direct Route to Carbon Nanotube Water Dispersions of High Concentration. Macromolecular Rapid Communications, 2009, 30, 418-422.	3.9	35
30	Nanofibrilar-Polyaniline/Carbon Nanotube Composites: Aqueous Dispersions and Films. Journal of Nanoscience and Nanotechnology, 2009, 9, 6157-6163.	0.9	7
31	Study of wettability and improvement of adhesion of UV curable powder coatings on polypropylene substrates. Journal of Applied Polymer Science, 2007, 106, 3348-3358.	2.6	16
32	A rheological analysis of interactions in phenoxy/organoclay nanocomposites. European Polymer Journal, 2007, 43, 3171-3176.	5.4	30
33	Kinetic studies of a UV-curable powder coating using photo-DSC, real-time FTIR and rheology. Journal of Coatings Technology Research, 2007, 4, 411-423.	2.5	27
34	Towards helical and Y-shaped carbon nanotubes: the role of sulfur in CVD processes. Nanotechnology, 2006, 17, 4292-4299.	2.6	30
35	Liquid-crystalline thermosets from liquid-crystalline epoxy resins containing bisazomethinebiphenylene mesogens in the central core: Copolymerization with a nonmesomorphic epoxy resin. Journal of Polymer Science Part A, 2004, 42, 3631-3643.	2.3	40
36	Surface modification of poly(propylene) by photoinitiators: Improvement of adhesion and wettability. Journal of Applied Polymer Science, 2004, 92, 2341-2350.	2.6	38

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37	Anisotropic thermosets from liquid-crystalline azomethynic epoxy resins and primary aromatic diamines. Journal of Polymer Science Part A, 2003, 41, 1-12.	2.3	37
38	New liquid-crystalline thermosets from liquid-crystalline bisazomethynic epoxy resins with naphthylene disruptors in the central core. Journal of Polymer Science Part A, 2003, 41, 1536-1544.	2.3	30
39	Synthesis of New Epoxy Liquid-Crystalline Monomers with Azo Groups in the Central Mesogenic Core. Crosslinking with Amines. Macromolecular Chemistry and Physics, 2001, 202, 1649-1657.	2.2	46
40	Study of lanthanide triflates as new curing initiators for DGEBA. Polymer, 2000, 41, 8465-8474.	3.8	55
41	Crosslinking of trimellitimide glycidyl ester derivatives. Journal of Applied Polymer Science, 1999, 72, 537-542.	2.6	13