Juan P FernÃ¡ndez-BlÃ¡zquez

List of Publications by Year
in descending order

62 papers	1,457 citations	331259 21 h-index	360668 35 g-index
62 all docs	62 docs citations	62 times ranked	2084 citing authors

#	Article	IF	Citations
1	Superhydrophilic and superhydrophobic nanostructured surfaces via plasma treatment. Journal of Colloid and Interface Science, 2011, 357, 234-238.	5.0	128
2	Bioinspired Actuated Adhesive Patterns of Liquid Crystalline Elastomers. Advanced Materials, 2012, 24, 4601-4604.	11.1	110
3	Nanostructured medical sutures with antibacterial properties. Biomaterials, 2015, 52, 291-300.	5.7	103
4	An approach to analyse the factors behind the micromechanical response of 3D-printed composites. Composites Part B: Engineering, 2020, 186, 107820.	5.9	73
5	Nanofibrillar Patterns by Plasma Etching: The Influence of Polymer Crystallinity and Orientation in Surface Morphology. Macromolecules, 2010, 43, 9908-9917.	2.2	69
6	Thermoset curing through Joule heating of nanocarbons for composite manufacture, repair and soldering. Carbon, 2013, 63, 523-529.	5.4	68
7	An ultrasensitive molecularly imprinted polymer-based electrochemical sensor for the determination of SARS-CoV-2-RBD by using macroporous gold screen-printed electrode. Biosensors and Bioelectronics, 2022, 196, 113729.	5.3	57
8	Post-processing effects on microstructure, interlaminar and thermal properties of 3D printed continuous carbon fibre composites. Composites Part B: Engineering, 2021, 210, 108652.	5.9	44
9	Isotactic Polypropylene with (3,1) Chain-Walking Defects: Characterization, Crystallization, and Melting Behaviors. Macromolecules, 2011, 44, 3436-3451.	2.2	41
10	Effect of nitrogen and oxygen doped carbon nanotubes on flammability of epoxy nanocomposites. Carbon, 2017, 121, 193-200.	5.4	36
11	Non-Isothermal Crystallization Behavior of PEEK/Graphene Nanoplatelets Composites from Melt and Glass States. Polymers, 2019, 11, 124.	2.0	33
12	Nanofibrillar Patterns on PET: The Influence of Plasma Parameters in Surface Morphology. Plasma Processes and Polymers, 2011, 8, 876-884.	1.6	31
13	Threading through Macrocycles Enhances the Performance of Carbon Nanotubes as Polymer Fillers. ACS Nano, 2016, 10, 8012-8018.	7.3	30
14	Fractal carbon nanotube fibers with mesoporous crystalline structure. Carbon, 2017, 122, 47-53.	5.4	30
15	On the improvement of properties of bioplastic composites derived from wasted cottonseed protein by rational cross-linking and natural fiber reinforcement. Green Chemistry, 2020, 22, 8642-8655.	4.6	29
16	How do graphite nanoplates affect the fracture toughness of polypropylene composites?. Composites Science and Technology, 2015, 111, 9-16.	3.8	27
17	Observation of Two Glass Transitions in a Thermotropic Liquid-Crystalline Polymer. Macromolecules, 2004, 37, 9018-9026.	2.2	26
18	Time-resolved FTIR spectroscopic study of the evolution of helical structure during isothermal crystallization of propylene 1-hexene copolymers. Identification of regularity bands associated with the trigonal polymorph. Polymer, 2011, 52, 2856-2868.	1.8	25

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19	Thermomechanical relaxation and different water states in cottonseed protein derived bioplastics. RSC Advances, 2014, 4, 32320.	1.7	25
20	Long-living and highly efficient bio-hybrid light-emitting diodes with zero-thermal-quenching biophosphors. Nature Communications, 2020, 11, 879.	5.8	24
21	Scalable graphene-based nanocomposite coatings for flexible and washable conductive textiles. Carbon, 2020, 167, 495-503.	5.4	23
22	Nanoindentation mapping of multiscale composites of graphene-reinforced polypropylene and carbon fibres. Composites Science and Technology, 2019, 169, 151-157.	3.8	22
23	Dynamic mechanical analysis of the two glass transitions in a thermotropic polymer. Polymer, 2005, 46, 10004-10010.	1.8	21
24	Real time monitoring of click chemistry self-healing in polymer composites. Journal of Materials Chemistry A, 2014, 2, 3881.	5.2	21
25	Processing and properties of PLA/Mg filaments for 3D printing of scaffolds for biomedical applications. Rapid Prototyping Journal, 2022, 28, 884-894.	1.6	21
26	Templateless nanostructuration of polymer surfaces. Soft Matter, 2012, 8, 2503.	1.2	19
27	Fabrication and Characterization of PEEK/PEI Multilayer Composites. Polymers, 2020, 12, 2765.	2.0	18
28	Processing and properties of long recycled-carbon-fibre reinforced polypropylene. Composites Part B: Engineering, 2021, 211, 108653.	5.9	18
29	Biogenic fluorescent proteinâ€“silk fibroin phosphors for high performing light-emitting diodes. Materials Horizons, 2020, 7, 1790-1800.	6.4	18
30	Parallel and Perpendicular Orientation in a Thermotropic Main-Chain Liquid-Crystalline Polymer. Macromolecules, 2007, 40, 703-709.	2.2	17
31	Macroscopic CNT fibres inducing non-epitaxial nucleation and orientation of semicrystalline polymers. Scientific Reports, 2015, 5, 16729.	1.6	17
32	Determination of cross-sectional area of natural plant fibres and fibre failure analysis by in situ SEM observation during microtensile tests. Cellulose, 2019, 26, 4693-4706.	2.4	17
33	The Two Crystallization Modes of Mesophase Forming Polymers. Macromolecules, 2007, 40, 1775-1778.	2.2	15
34	Development of high performing polymer electrolytes based on superconcentrated solutions. Journal of Power Sources, 2021, 506, 230220.	4.0	15
35	Deciphering Limitations to Meet Highly Stable Bioâ€Hybrid Lightâ€Emitting Diodes. Advanced Functional Materials, 2019, 29, 1904356.	7.8	13
36	Processing and mechanical properties of novel biodegradable poly-lactic acid/Zn 3D printed scaffolds for application in tissue regeneration. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 132, 105290.	1.5	13

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37	Distinct Nanopatterns on Dry Etched Semicrystalline Polymer Films Controlled by Mechanical Orientation. ACS Macro Letters, 2012, 1, 627-631.	2.3	12
38	Effect of the particle size and solids volume fraction on the thermal degradation behaviour of Invar 36 feedstocks. Polymer Degradation and Stability, 2013, 98, 2546-2555.	2.7	12
39	Polycarbonate/Sulfonamide Composites with Ultralow Contents of Halogen-Free Flame Retardant and Desirable Compatibility. Materials, 2020, 13, 3656.	1.3	12
40	Production of graphene nanoplate/polyetheretherketone composites by semi-industrial melt-compounding. Heliyon, 2020, 6, e03740.	1.4	12
41	Effect of polysulfone brush functionalization on thermo-mechanical properties of melt extruded graphene/polysulfone nanocomposites. Carbon, 2019, 151, 84-93.	5.4	11
42	Exceptionally Stable Microporous Organic Frameworks with Rigid Building Units for Efficient Small Gas Adsorption and Separation. ACS Applied Materials & Interfaces, 2020, 12, 7548-7556.	4.0	11
43	Liquid-crystalline copolymers of bibenzoate and terephthalate units. Polymer Bulletin, 2006, 56, 571-577.	1.7	10
44	Multiscale SAXS/WAXD characterisation of the deformation mechanisms of electrospun PCL scaffolds. Polymer, 2020, 203, 122775.	1.8	10
45	Synthesis, Phase Behaviour and Mechanical Properties of Poly(2â€methylâ€1,3â€propanediolâ€4,4â€²â€bibenzoate). Macromolecular Chemistry and Physics, 2007, 208, 2611-2620.	1.1	8
46	Supramolecular Assembly of Oriented Spherulitic Crystals of Conjugated Polymers Surrounding Carbon Nanotube Fibers. Macromolecular Rapid Communications, 2019, 40, 1900098.	2.0	8
47	Thermotropic Phase Behavior of a Liquid-Crystalline Poly(ether ester) Derived from Hydroxydibenzoic Acid, 2-Methyl-1,3-propanediol andR-1,3-Butanediol. Macromolecular Chemistry and Physics, 2007, 208, 520-528.	1.1	6
48	Nanostructured Polymer Fibers with Enhanced Adhesion to Epoxy Matrices. Plasma Processes and Polymers, 2013, 10, 207-212.	1.6	6
49	The role of mesophases in the ordering of polymers. European Polymer Journal, 2016, 81, 661-673.	2.6	6
50	Preparation and Properties of a Main-Chain Smectic Liquid-Crystalline Elastomer with Shape-Memory Ability. Macromolecules, 2016, 49, 5306-5314.	2.2	5
51	Unveiling the reinforcement effects in cottonseed protein/polycaprolactone blend biocomposites. Composites Science and Technology, 2022, 225, 109480.	3.8	5
52	Molecular weight effect on the obtainment of parallel and perpendicular orientation in thermotropic poly(diethylene glycol p,pâ€²-bibenzoate). Polymer Bulletin, 2008, 60, 89-96.	1.7	4
53	Relationship Between Composition, Structure and Dynamics of Main-Chain Liquid Crystalline Polymers with Biphenyl Mesogens. , 2016, , 453-476.		4
54	Stronger aramids through molecular design and nanoprocessing. Polymer Chemistry, 2020, 11, 1489-1495.	1.9	4

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55	Structural relaxation in the amorphous and liquid-crystalline phases of a thermotropic polymer. Polymer Bulletin, 2007, 58, 941-949.	1.7	3
56	Simultaneous Synchrotron X-ray Diffraction and Stressâ^'Strain or Stressâ^'Relaxation Experiments for the Study of Parallel and Perpendicular Orientation in a Liquid Crystalline Polymer. Macromolecules, 2008, 41, 421-428.	2.2	3
57	MECHANICAL AND MORPHOLOGICAL PROPERTIES OF POLY(3-HYDROXYBUTYRATE)-THERMOPLASTIC STARCH/CLAY/EUGENOL BIONANOCOMPOSITES. Journal of the Chilean Chemical Society, 2020, 65, 4992-4997.	0.5	3
58	Structure and Phase Transitions of Ethyl 4â€²-n-undecyloxybiphenyl-4-carboxylate and Its Acid Derivative. Molecular Crystals and Liquid Crystals, 2008, 489, 222/[548]-236/[562].	0.4	2
59	Morphology, thermal, and crystallization analysis of polylactic acid in the presence of carbon nanotube fibers with tunable fiber loadings through polymer infiltration. Polymer Crystallization, 2019, 2, e10081.	0.5	2
60	Applications of Synchrotron X-Ray Diffraction to the Study of the Phase Behavior in Liquid Crystalline Polymers. Lecture Notes in Physics, 2009, , 157-182.	0.3	1
61	Structural changes induced by deformation in an ethyleneâ€“(vinyl alcohol) copolymer: simultaneous measurements of uniaxial stretching and in situ wideâ€angle Xâ€ray scattering. Polymer International, 2010, 59, 1141-1147.	1.6	0
62	Bio-based carbonaceous composite materials from epoxidised linseed oil, bio-derived curing agent and starch with controllable functionality. RSC Advances, 2017, 7, 24282-24290.	1.7	0