

# Carlos A A Bernardo

## List of Publications by Year in descending order

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76  
papers

2,619  
citations

212478

28  
h-index

214428

50  
g-index

76  
all docs

76  
docs citations

76  
times ranked

2604  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sustainability of plastics. , 2021, , 47-85.		0
2	Assessing the environmental and economic performance of alternative car chassis. AIP Conference Proceedings, 2019, , .	0.3	0
3	Environmental and economic life cycle analysis of plastic waste management options. A review. AIP Conference Proceedings, 2016, , .	0.3	53
4	Environmental and economic life cycle assessment of polymers and polymer matrix composites: a review. CiÃancia & Tecnologia Dos Materiais, 2016, 28, 55-59.	0.5	6
5	Comparative lifecycle assessment of mango packaging made from a polyethylene/natural fiber-composite and from cardboard material. Journal of Cleaner Production, 2016, 139, 1168-1180.	4.6	46
6	Using a glass-fibre reinforced polymer composite in the production of sustainable water storage tanks. International Journal of Materials and Product Technology, 2016, 52, 162.	0.1	1
7	Environmental and economic performance of a car component: assessing new materials, processes and designs. Journal of Cleaner Production, 2016, 118, 105-117.	4.6	27
8	Environmental and economic analysis of end of life management options for an HDPE product using a life cycle thinking approach. Waste Management and Research, 2014, 32, 414-422.	2.2	13
9	Integrating environmental and economic life cycle analysis in product development: a material selection case study. International Journal of Life Cycle Assessment, 2013, 18, 1734-1746.	2.2	40
10	Environmental and economic assessment of a road safety product made with virgin and recycled HDPE: A comparative study. Journal of Environmental Management, 2013, 114, 209-215.	3.8	31
11	The quest for a sustainable product: An environmental study of tyre recyclates. Materials & Design, 2013, 52, 196-206.	5.1	10
12	Energy recovery and impact on land use of Maltese municipal solid waste incineration. Energy, 2013, 49, 1-11.	4.5	42
13	An Environment Friendly Highly Sensitive Ethanol Vapor Sensor Based on Polymethylethacrylate: Functionalized-Multiwalled Carbon Nanotubes Composite. Advanced Science, Engineering and Medicine, 2013, 5, 1062-1066.	0.3	6
14	Modelling the economic and environmental performance of engineering products: a materials selection case study. International Journal of Life Cycle Assessment, 2012, 17, 678-688.	2.2	17
15	Measurement strategies for occupational noise exposure assessment: A comparison study in different industrial environments. International Journal of Industrial Ergonomics, 2012, 42, 172-177.	1.5	26
16	Modelling the environmental performance of composite products: Benchmark with traditional materials. Materials & Design, 2012, 39, 121-130.	5.1	11
17	Carbon formation and gasification on metals. Bulk diffusion mechanism: A reassessment. Catalysis Today, 2011, 178, 110-116.	2.2	26
18	Study of the degradation mechanisms of polyethylene during reprocessing. Polymer Degradation and Stability, 2011, 96, 1125-1133.	2.7	64

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19	Influence of the impact assessment method on the conclusions of a LCA study. Application to the case of a part made with virgin and recycled HDPE. <i>Waste Management and Research</i> , 2011, 29, 1018-1026.	2.2	17
20	Life cycle assessment of a road safety product made with virgin and recycled HDPE. <i>Waste Management and Research</i> , 2011, 29, 414-422.	2.2	15
21	Thermoplastic matrix towpreg production. <i>Advances in Polymer Technology</i> , 2010, 29, 80-85.	0.8	4
22	New thermoplastic matrix composites for demanding applications. <i>Plastics, Rubber and Composites</i> , 2009, 38, 167-172.	0.9	8
23	Conductive long fibre reinforced thermoplastics by using carbon nanofibres. <i>Plastics, Rubber and Composites</i> , 2006, 35, 247-252.	0.9	12
24	Auto <i>i&gt;</i> Polymers</i>2005. <i>Plastics, Rubber and Composites</i> , 2006, 35, 231-231.	0.9	3
25	Tailored shear extrusion of carbon nanofibre/polyamide composites and its effect on electrical percolation threshold. <i>Plastics, Rubber and Composites</i> , 2006, 35, 268-275.	0.9	3
26	A study of the effect of plasma treatment on the interfacial properties of carbon fibreâ€“thermoplastic composites. <i>Carbon</i> , 2005, 43, 1795-1799.	5.4	123
27	A theoretical and experimental study of new towpreg-based long fibre thermoplastic composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2005, 36, 25-32.	3.8	11
28	Advances in Thermoplastic Matrix Towpregs Processing. <i>Journal of Thermoplastic Composite Materials</i> , 2004, 17, 523-544.	2.6	14
29	A novel technique for the interfacial characterisation of glass fibreâ€“polypropylene systems. <i>Polymer Testing</i> , 2003, 22, 907-913.	2.3	19
30	The effect of flame retardants on the hot-plate welding of talc-filled polypropylene. <i>Polymer Engineering and Science</i> , 2002, 42, 146-151.	1.5	9
31	The use of a three-point support flexural test to predict the stiffness of anisotropic composite plates in bending. <i>Polymer Testing</i> , 2002, 21, 27-33.	2.3	37
32	THERMAL CHARACTERIZATIONS OF WOOD FLOUR/STARCH CELLULOSE ACETATE COMPOUNDS. <i>Journal of Macromolecular Science - Physics</i> , 2001, 40, 529-538.	0.4	12
33	A promising conductive material: highly oriented polypropylene filled with short vapour-grown carbon fibres. <i>Materials Letters</i> , 2001, 51, 32-36.	1.3	59
34	Isothermal and non-isothermal consolidation of carbon fiber towpregs. <i>Polymer Composites</i> , 2001, 22, 71-79.	2.3	2
35	Morphology and mechanical behavior of polypropylene hot plate welds. <i>Polymer Engineering and Science</i> , 2001, 41, 1913-1922.	1.5	21
36	Effects of plasma oxidation on the surface and interfacial properties of carbon fibres/polycarbonate composites. <i>Carbon</i> , 2001, 39, 1057-1068.	5.4	115

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37	A comparative analysis of alternative models to predict the tensile strength of untreated and surface oxidised carbon fibers. Carbon, 2001, 39, 1091-1101.	5.4	19
38	Title is missing!. Journal of Materials Science, 2001, 36, 4903-4909.	1.7	23
39	Tensile, Electrical and Thermal Properties of Vapor Grown Carbon Fibers Composites. , 2001, , 301-314.		3
40	Mechanical, surface and interfacial characterisation of pitch and PAN-based carbon fibres. Carbon, 2000, 38, 1323-1337.	5.4	197
41	Transport properties of polymer-vapour grown carbon fibre composites. Physica B: Condensed Matter, 2000, 279, 33-36.	1.3	110
42	Modeling of the consolidation of polycarbonate/carbon fiber towpregs. Polymer Composites, 1999, 20, 260-268.	2.3	4
43	A model to predict the strength of short fiber composites. Polymer Composites, 1999, 20, 524-533.	2.3	58
44	A study of the thermomechanical properties of carbon fiber-polypropylene composites. Polymer Composites, 1999, 20, 683-688.	2.3	62
45	Thermal diffusivity measurements of vapour grown carbon fibre composites, using the optical beam deflection technique. Journal of Materials Processing Technology, 1999, 92-93, 151-155.	3.1	5
46	Ribbon fibres from naphthalene-based mesophase: Surface studies and fibre/matrix interactions in polycarbonate composites. Carbon, 1998, 36, 71-77.	5.4	4
47	Carbon formation on nickel and nickel-copper alloy catalysts. Materials and Corrosion - Werkstoffe Und Korrosion, 1998, 49, 367-372.	0.8	80
48	Production and characterization of innovative carbon fiber-polycarbonate composites. Polymer Composites, 1998, 19, 147-151.	2.3	37
49	Production and assessment of polycarbonate composites reinforced with vapour-grown carbon fibres. Composites Science and Technology, 1998, 58, 401-407.	3.8	132
50	Carbon formation on nickel and nickel-copper alloy catalysts. , 1998, 49, 367.		1
51	Derivation and Validation of Models to Predict the Properties of Mixtures of Virgin and Recycled Polymers. , 1998, , 215-247.		2
52	Formation and Characterization of Carbon/Polycarbonate Towpregs and Composites. Journal of Composite Materials, 1997, 31, 1758-1777.	1.2	15
53	Influence of thermal history on the results of fragmentation tests on high-modulus carbon-fibre/polycarbonate model composites. Composites Science and Technology, 1997, 57, 839-843.	3.8	28
54	Morphological, mechanical and interfacial analysis of vapour-grown carbon fibres. Carbon, 1997, 35, 1175-1183.	5.4	12

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55	Carbon Formation and CO Methanation on Silica-Supported Nickel and Nickel-Copper Catalysts in CO + H <sub>2</sub> Mixtures. Journal of Catalysis, 1996, 158, 402-410.	3.1	47
56	An algorithm for predicting the properties of products incorporating recycled polymers. Advances in Polymer Technology, 1996, 15, 215-221.	0.8	0
57	A new method for the determination of water-vapour permeability of polymer films based on the evaluation of the heat of evaporation. Polymer Testing, 1996, 15, 189-201.	2.3	7
58	The recycling of thermoplastics: Prediction of the properties of mixtures of virgin and reprocessed polyolefins. Polymer Engineering and Science, 1996, 36, 511-519.	1.5	37
59	An algorithm for predicting the properties of products incorporating recycled polymers. Advances in Polymer Technology, 1996, 15, 215-221.	0.8	4
60	Role of sulfur in the production of carbon fibers in the vapor phase. Carbon, 1994, 32, 569-576.	5.4	167
61	CO Disproportionation on Silica-Supported Nickel and Nickel-Copper Catalysts. Journal of Catalysis, 1994, 147, 525-534.	3.1	35
62	The effect of recycling on the properties of thermoplastics composites. , 1993, , 443-448.		3
63	Filamentous Carbon Formation on Metals and Alloys. , 1990, , 441-457.		4
64	Application of controlled atmosphere electron microscopy to the study of catalyst deactivation and regeneration. Vacuum, 1989, 39, 653-657.	1.6	0
65	The reversibility of filamentous carbon growth and gasification. Journal of Catalysis, 1988, 110, 127-138.	3.1	65
66	Reactivity of carbon deposited on nickel-copper alloy catalysts from the decomposition of methane. Journal of Catalysis, 1986, 100, 545-548.	3.1	56
67	Gasification of Carbon Deposited on Metallic Catalysts. , 1986, , 269-287.		2
68	Carbon deposition and methane steam reforming on silica-supported Ni-Cu catalysts. Journal of Catalysis, 1985, 96, 517-534.	3.1	224
69	Studies of deactivation of metals by carbon deposition. Carbon, 1982, 20, 219-223.	5.4	68
70	Kinetics of Carbon Formation from Acetylene and 1-Butene on Cobalt. Studies in Surface Science and Catalysis, 1980, 6, 409-420.	1.5	10
71	The kinetics of gasification of carbon deposited on nickel catalysts. Carbon, 1979, 17, 115-120.	5.4	82
72	Structural factors in the deposition of carbon on nickel. Carbon, 1976, 14, 225-228.	5.4	33

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73	Evidence that carbon formation from acetylene on nickel involves bulk diffusion. Carbon, 1976, 14, 287-288.	5.4	29
74	Kinetics of carbon formation from acetylene on nickel. Journal of Catalysis, 1975, 37, 267-278.	3.1	45
75	Adsorption isotherms and surface reaction kinetics. Journal of Chemical Education, 1974, 51, 723.	1.1	5
76	Production of Thermoplastic Towpregs. Materials Science Forum, 0, 636-637, 220-225.	0.3	1