

Edson Cocchieri Botelho

List of Publications by Year in descending order

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304602

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docs citations

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times ranked

2299
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on the development and properties of continuous fiber/epoxy/aluminum hybrid composites for aircraft structures. <i>Materials Research</i> , 2006, 9, 247-256.	0.6	415
2	Fabrication of glassy carbon spools for utilization in fiber optic gyroscopes. <i>Carbon</i> , 2002, 40, 787-788.	5.4	136
3	Hybridization effect on the mechanical properties of curaua/glass fiber composites. <i>Composites Part B: Engineering</i> , 2013, 55, 492-497.	5.9	120
4	A review of welding technologies for thermoplastic composites in aerospace applications. <i>Journal of Aerospace Technology and Management</i> , 2012, 4, 255-266.	0.3	109
5	Correlation between degree of crystallinity, morphology and mechanical properties of PPS/carbon fiber laminates. <i>Materials Research</i> , 2016, 19, 195-201.	0.6	92
6	Carbon fiber-reinforced epoxy filament-wound composite laminates exposed to hydrothermal conditioning. <i>Journal of Materials Science</i> , 2016, 51, 4697-4708.	1.7	85
7	Effect of fiber orientation on the shear behavior of glass fiber/epoxy composites. <i>Materials & Design</i> , 2015, 65, 789-795.	5.1	81
8	Carbon nanotube buckypaper reinforced polymer composites: a review. <i>Polimeros</i> , 2017, 27, 247-255.	0.2	79
9	Hydrothermal effects on the shear properties of carbon fiber/epoxy composites. <i>Journal of Materials Science</i> , 2006, 41, 7111-7118.	1.7	62
10	The effect of thermal cycles on the mechanical properties of fiber-metal laminates. <i>Materials & Design</i> , 2012, 42, 434-440.	5.1	52
11	Processing and hydrothermal effects on viscoelastic behavior of glass fiber/epoxy composites. <i>Journal of Materials Science</i> , 2005, 40, 3615-3623.	1.7	50
12	Characterization of cure of carbon/epoxy prepreg used in aerospace field. <i>Materials Research</i> , 2005, 8, 317-322.	0.6	47
13	Evaluation of adhesion of continuous fiber-epoxy composite/aluminum laminates. <i>Journal of Adhesion Science and Technology</i> , 2004, 18, 1799-1813.	1.4	37
14	Effect of furfuryl alcohol addition on the cure of furfuryl alcohol resin used in the glassy carbon manufacture. <i>Journal of Applied Polymer Science</i> , 2007, 106, 2274-2281.	1.3	36
15	Synthesis of Polyamide 6/6 by Interfacial Polycondensation with the Simultaneous Impregnation of Carbon Fibers. <i>Macromolecules</i> , 2001, 34, 3367-3375.	2.2	35
16	Monitoring of cure kinetic prepreg and cure cycle modeling. <i>Journal of Materials Science</i> , 2006, 41, 4349-4356.	1.7	33
17	Atmospheric Plasma Treatment of Carbon Fibers for Enhancement of Their Adhesion Properties. <i>IEEE Transactions on Plasma Science</i> , 2013, 41, 319-324.	0.6	32
18	Porosity control in glassy carbon by rheological study of the furfuryl resin. <i>Carbon</i> , 2001, 39, 45-52.	5.4	31

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19	Monitoring of nylon 6,6/carbon fiber composites processing by X-ray diffraction and thermal analysis. <i>Journal of Applied Polymer Science</i> , 2002, 86, 3114-3119.	1.3	31
20	Influence of Hygrothermal Conditioning on the Elastic Properties of Carall Laminates. <i>Applied Composite Materials</i> , 2007, 14, 209-222.	1.3	29
21	Influence of environmental conditioning on the shear behavior of poly(phenylene sulfide)/glass fiber composites. <i>Journal of Applied Polymer Science</i> , 2010, 118, 180-187.	1.3	27
22	Influence of water immersion and ultraviolet weathering on mechanical and viscoelastic properties of polyphenylene sulfide-carbon fiber composites. <i>Journal of Thermoplastic Composite Materials</i> , 2015, 28, 340-356.	2.6	26
23	Viscosity, pH, and moisture effect in the porosity of poly(furfuryl alcohol). <i>Journal of Applied Polymer Science</i> , 2013, 128, 1680-1686.	1.3	24
24	Environmental effects on viscoelastic behavior of carbon fiber/PEKK thermoplastic composites. <i>Journal of Reinforced Plastics and Composites</i> , 2014, 33, 749-757.	1.6	24
25	Appraisal of fiber-metal laminate panels reinforced with metal pins deposited by CMT welding. <i>Composite Structures</i> , 2017, 180, 263-275.	3.1	22
26	Polypropylene Composites Manufactured from Recycled Carbon Fibers from Aeronautic Materials Waste. <i>Materials Research</i> , 2017, 20, 519-525.	0.6	22
27	The effect of the ocean water immersion and UV ageing on the dynamic mechanical properties of the PPS/glass fiber composites. <i>Journal of Reinforced Plastics and Composites</i> , 2011, 30, 1729-1737.	1.6	21
28	Carbon Fiber Surface Modification by Plasma Treatment for Interface Adhesion Improvements of Aerospace Composites. <i>Advanced Materials Research</i> , 0, 1135, 75-87.	0.3	21
29	Dynamic mechanical properties for polyurethane elastomers applied in elastomeric mortar. <i>Journal of Applied Polymer Science</i> , 2012, 126, 1461-1467.	1.3	19
30	Analysis of chemical polymerization between functionalized MWCNT and poly(furfuryl alcohol) composite. <i>Polimeros</i> , 2018, 28, 15-22.	0.2	19
31	Rheological analysis of the phenolic and furfuryl resins used in the carbon materials processing. <i>Materials Research</i> , 2000, 3, 19-23.	0.6	17
32	Evaluation of crystallization kinetics of polymer of poly (ether-ketone-ketone) and poly (ether-ether-ketone) by DSC. <i>Journal of Aerospace Technology and Management</i> , 2010, 2, 155-162.	0.3	17
33	Thermal degradation and lifetime estimation of poly(ether imide)/carbon fiber composites. <i>Journal of Thermoplastic Composite Materials</i> , 2015, 28, 265-274.	2.6	17
34	Structural and surface functionality changes in reticulated vitreous carbon produced from poly(furfuryl alcohol) with sodium hydroxide additions. <i>Applied Surface Science</i> , 2017, 394, 87-97.	3.1	17
35	Multifunctional Characteristics of Glass Fiber-Reinforced Epoxy Polymer Composites with Multiwalled Carbon Nanotube Buckypaper Interlayer. <i>Polymer Engineering and Science</i> , 2020, 60, 740-751.	1.5	17
36	Study of polyamide 6/6 synthesis carried out by interfacial polymerization on carbon fibre. <i>Polymer International</i> , 2002, 51, 1261-1267.	1.6	16

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37	Effect of surface treatment on fatigue behavior of metal/carbon fiber laminates. Journal of Materials Science, 2008, 43, 3173-3179.	1.7	16
38	Accelerated aging effects on carbon fiber PEKK composites manufactured by hot compression molding. Journal of Thermoplastic Composite Materials, 2016, 29, 1429-1442.	2.6	16
39	Avaliação mecânica e reológica da matriz termoplástica PEKK utilizada em compósitos aeronáuticos. Polimeros, 2008, 18, 237-243.	0.2	15
40	Creep behavior of polyetherimide semipreg and epoxy prepreg composites: Structure vs. property relationship. Journal of Composite Materials, 2020, 54, 4121-4131.	1.2	15
41	Dispersing carbon nanotubes in phenolic resin using an aqueous solution. Journal of the Brazilian Chemical Society, 2011, 22, 2040-2047.	0.6	14
42	A review of mechanical drilling on fiber metal laminates. Journal of Composite Materials, 2021, 55, 843-869.	1.2	14
43	Monitoring of Carbon Fiber/Polyamide Composites Processing by Rheological and Thermal Analyses. Polymer-Plastics Technology and Engineering, 2006, 45, 61-69.	1.9	13
44	Electromagnetic Properties of Multifunctional Composites Based on Glass Fiber Prepreg and Ni/Carbon Fiber Veil. Journal of Aerospace Technology and Management, 2017, 9, 231-240.	0.3	13
45	Structural Carbon/Epoxy Prepregs Properties Comparison by Thermal and Rheological Analyses. Polymer-Plastics Technology and Engineering, 2006, 45, 1143-1153.	1.9	12
46	Damping behavior of hygrothermally conditioned carbon fiber/epoxy laminates. Journal of Applied Polymer Science, 2007, 106, 3143-3148.	1.3	12
47	Assessment of cumulative damage by using ultrasonic C-scan on carbon fiber/epoxy composites under thermal cycling. Materials Research, 2012, 15, 495-499.	0.6	12
48	Evaluation of weather influence on mechanical and viscoelastic properties of polyetherimide/carbon fiber composites. Journal of Reinforced Plastics and Composites, 2013, 32, 863-874.	1.6	11
49	Benzoxazine resin and their nanostructured composites cure kinetic by DSC. Journal of Materials Research, 2013, 28, 3094-3099.	1.2	11
50	Estudo das propriedades elétricas e mecânicas de compósitos nanoestruturados de poli(sulfeto de) Tj ETQq0 0,0 rgBT /Overlock 10	0.2	11
51	Viscoelastic evaluation of epoxy nanocomposite based on carbon nanofiber obtained from electrospinning processing. Polymer Bulletin, 2019, 76, 6063-6076.	1.7	11
52	Evaluation of fatigue behavior on repaired carbon fiber/epoxy composites. Journal of Materials Science, 2008, 43, 3166-3172.	1.7	10
53	Effects of carbon nanotube fillers dispersion on mechanical behavior of phenolic/carbon nanotube nanocomposite. Journal of Materials Research, 2012, 27, 2342-2351.	1.2	10
54	Synthesis and characterization of polyarylacetylene for use in the monolithic vitreous carbon processing. Polimeros, 2014, 24, 541-546.	0.2	10

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55	The influence of carbon nanotube buckypaper/poly (ether imide) mats on the thermal properties of poly (ether imide) and poly (aryl ether ketone)/carbon fiber laminates. <i>Diamond and Related Materials</i> , 2021, 116, 108421.	1.8	9
56	Viscoelastic behavior of multiwalled carbon nanotubes into phenolic resin. <i>Materials Research</i> , 2013, 16, 713-720.	0.6	8
57	Acid catalyst influence on the polymerization time of polyfurfuryl alcohol and on the porosity of monolithic vitreous carbon. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	7
58	Treatment of Reticulated Vitreous Carbon by Dielectric Barrier Discharge Plasma for Electrodes Production. <i>IEEE Transactions on Plasma Science</i> , 2013, 41, 3207-3213.	0.6	6
59	Furfuryl resin/CNT/carbon fiber drilling, using carbide drill coated with Balinit-Helica. <i>Materials and Manufacturing Processes</i> , 2020, 35, 1096-1103.	2.7	6
60	Morphological, mechanical, and electromagnetic interference shielding effectiveness characteristics of glass fiber/epoxy resin/<scp>MWCNT</scp> buckypaper composites. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50589.	1.3	6
61	Statistical analysis of creep behavior in thermoset and thermoplastic composites reinforced with carbon and glass fibers. <i>Journal of Strain Analysis for Engineering Design</i> , 2021, 56, 452-461.	1.0	6
62	Thermal behavior evaluation of benzoxazine reinforced with<scp>macadamia</scp>biomass composites. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	1.3	6
63	Benzoxazine Resin/Carbon Nanotube Nanostructured Composite's Degradation Kinetic. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 5145-5150.	0.9	5
64	Moisture and temperature influence on mechanical behavior of PPS/buckypapers carbon fiber laminates. <i>Materials Research Express</i> , 2017, 4, 075302.	0.8	5
65	A review on research, application, processing, and recycling of PPS based materials. <i>Polimeros</i> , 2022, 32, .	0.2	5
66	Estudo da cin�tica de decomposi�o de comp�sitos nanoestruturados de poli (sulfeto de fenileno) refor�ados com nanotubos de carbono. <i>Polimeros</i> , 2014, 24, 720-725.	0.2	4
67	Electrospinning TPU/poly o-phenetidine (POEA) fibers: influence of POEA on fiber morphology. <i>Polymer Bulletin</i> , 2017, 74, 2905-2919.	1.7	4
68	Assessment of the interlaminar strength of resistance-welded PEI/carbon fibre composite. <i>Welding International</i> , 2018, 32, 149-160.	0.3	4
69	Microwave absorbing properties of glass fiber/epoxy resin composites tailored with frequency selective surface based on nonwoven of carbon fibers metalized with nickel. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 13095-13103.	1.1	4
70	Production and characterization of carbon/carbon composites from thermoplastic matrices. <i>Journal of Polymer Research</i> , 2021, 28, 1.	1.2	4
71	An�lise do efeito higrot�mico no comportamento em fadiga de comp�sitos de PPS/fibras de carbono. <i>Polimeros</i> , 2012, 22, 7-12.	0.2	3
72	Estudo das propriedades morfol�gicas, t�rmicas e mec�nicas do comp�sito particulado de alum�nio e polietileno de baixa densidade reciclados. <i>Revista Materia</i> , 2015, 20, 852-865.	0.1	3

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73	Efeito da degradação ambiental nas propriedades de cisalhamento de compósitos PPS/fibra de carbono. Polimeros, 2011, 21, 161-167.	0.2	2
74	Avaliação da Resistência Interlaminar do Compósito PEI/Fibras de Carbono Soldado pelo Método de Resistência Elétrica. Soldagem E Inspecao, 2016, 21, 387-404.	0.6	2
75	The effect of temperature on fatigue strength of poly(etherimide)/multiwalled carbon nanotube/carbon fibers composites for aeronautical application. Journal of Applied Polymer Science, 2020, 137, 49160.	1.3	2
76	Feasibility study of the Oxy Fuel Gas Welding (OFW) process in AA2024-T3 and GF/PEI composite hybrid joint. Welding in the World, Le Soudage Dans Le Monde, 2021, 65, 1145-1160.	1.3	2
77	Reconsolidation effect on impact, compression after impact and thermal properties of poly (aryl ether) Tj ETQq1 1 0.784314 rgBT /Overl 2023, 36, 2562-2581.	2.6	2
78	Epoxy Composite with Milimetric Carbon Nanotubes. Journal of Nanoscience and Nanotechnology, 2011, 11, 9025-9031.	0.9	1
79	Boron-Doped Nanocrystalline Diamond Grown on Reticulated Vitreous Carbon: Morphological, Structural, and Electrochemical Characterizations. ECS Transactions, 2015, 64, 25-32.	0.3	1
80	Estudo da influência do condicionamento higrotérmico nas propriedades viscoelásticas de compósitos termoplásticos. Polimeros, 2017, 27, 77-83.	0.2	1
81	Avaliação das propriedades dinâmico mecânicas e reológicas de compositos nanoestruturados de PPS/MWCNT. Polimeros, 2017, 27, 56-60.	0.2	1
82	Creep and Aging Evaluation of Phenol-Formaldehyde Carbon Fiber Composites in Overhead Transmission Lines. Applied Composite Materials, 2021, 28, 1697.	1.3	1
83	Characterization of oxide coating grown by plasma electrolytic oxidation (PEO) at different times on aluminum alloy AA2024-T3. MRS Communications, 2022, 12, 266.	0.8	1
84	Influence of carboxylated multi-walled carbon nanotube on the thermostability, and viscoelastic properties of poly (ether imide)/carbon fiber laminates. Diamond and Related Materials, 2022, 126, 109113.	1.8	1
85	Interlaminar shear of FML produced with surface treatment by mechanical abrasion. Procedia CIRP, 2022, 108, 555-559.	1.0	1
86	Thermal behavior of phenol-furfuryl alcohol resin/carbon nanotubes composites. Materials Research Express, 2018, 5, 045701.	0.8	0
87	Fiber-Metal Laminate Panels Reinforced with Metal Pins. , 2019, , .		0
88	Flexural Performance of Concrete Beams Reinforced with Epoxy Resin/Glass and Carbon Fibers Composites. Materials Research, 2021, 24, .	0.6	0
89	Interfacial, mechanical, and thermal behavior of PEI/glass fiber welded joints influenced by hygrothermal conditioning. Journal of Composite Materials, 0, , 002199832110558.	1.2	0