

J Abenojar

List of Publications by Year in descending order

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114
papers

2,835
citations

168829

31
h-index

232693

48
g-index

118
all docs

118
docs citations

118
times ranked

2704
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of a green epoxy adhesive for cork by adding lignin: thermal and bonding properties. <i>Wood Science and Technology</i> , 2022, 56, 721-742.	1.4	2
2	Experimental and numerical studies of polyamide 11 and 12 surfaces modified by atmospheric pressure plasma treatment. <i>Surfaces and Interfaces</i> , 2022, 32, 102154.	1.5	11
3	Decomposition kinetics and lifetime estimation of natural fiber reinforced composites: Influence of plasma treatment and fiber type. <i>Journal of Industrial Textiles</i> , 2021, 51, 594-610.	1.1	2
4	Advanced G-MPS-PMMA Bone Cements: Influence of Graphene Silanisation on Fatigue Performance, Thermal Properties and Biocompatibility. <i>Nanomaterials</i> , 2021, 11, 139.	1.9	4
5	Mechanical properties and fire-resistance of composites with marble particles. <i>Journal of Materials Research and Technology</i> , 2021, 12, 1403-1417.	2.6	15
6	One-Step Enameling and Sintering of Low-Carbon Steels. <i>Metals</i> , 2021, 11, 1007.	1.0	3
7	Characterization of hybrid biocomposite Poly-Butyl-Succinate/Carbon fibers/Flax fibers. <i>Composites Part B: Engineering</i> , 2021, 221, 109033.	5.9	24
8	Recent Progress in Carbon Fiber Reinforced Polymers Recycling: A Review of Recycling Methods and Reuse of Carbon Fibers. <i>Materials</i> , 2021, 14, 6401.	1.3	37
9	Comparative Characterization of Hot-Pressed Polyamide 11 and 12: Mechanical, Thermal and Durability Properties. <i>Polymers</i> , 2021, 13, 3553.	2.0	27
10	Recent Progress in Hybrid Biocomposites: Mechanical Properties, Water Absorption, and Flame Retardancy. <i>Materials</i> , 2020, 13, 5145.	1.3	52
11	Effect of APPT Treatment on Mechanical Properties and Durability of Green Composites with Woven Flax. <i>Materials</i> , 2020, 13, 4762.	1.3	10
12	Thermal characterization and diffusivity of two mono-component epoxies for transformer insulation. <i>International Journal of Adhesion and Adhesives</i> , 2020, 103, 102726.	1.4	8
13	Effect of moisture and temperature on thermal and mechanical properties of structural polyurethane adhesive joints. <i>Composite Structures</i> , 2020, 247, 112443.	3.1	26
14	Influence of sample dimensions on single lap joints: effect of interactions between parameters. <i>Journal of Adhesion</i> , 2020, , 1-12.	1.8	5
15	Coating cork particles with iron oxide: effect on magnetic properties. <i>Wood Science and Technology</i> , 2020, 54, 869-889.	1.4	9
16	Effect of silica nanoparticles on the curing kinetics and erosion wear of an epoxy powder coating. <i>Journal of Materials Research and Technology</i> , 2020, 9, 455-464.	2.6	18
17	Mechanical Characterisation of Graded Single Lap Joints Using Magnetised Cork Microparticles. <i>Advanced Structured Materials</i> , 2020, , 153-174.	0.3	3
18	Effect of moisture and temperature on the thermal and mechanical properties of a ductile epoxy adhesive for use in steel structures reinforced with CFRP. <i>Composites Part B: Engineering</i> , 2019, 176, 107194.	5.9	46

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19	Novel application of a thermoplastic composite with improved matrix-fiber interface. Journal of Materials Research and Technology, 2019, 8, 5536-5547.	2.6	12
20	Characterization a polyurethane-based reactive hot melt adhesive for applications in materials. DYNA (Colombia), 2019, 86, 247-253.	0.2	1
21	Intensity of singular stress field (ISSF) variation as a function of the Young's modulus in single lap adhesive joints. International Journal of Adhesion and Adhesives, 2019, 95, 102418.	1.4	13
22	Graphene Oxide and Graphene Reinforced PMMA Bone Cements: Evaluation of Thermal Properties and Biocompatibility. Materials, 2019, 12, 3146.	1.3	30
23	Durability of steel-CFRP structural adhesive joints with polyurethane adhesives. Composites Part B: Engineering, 2019, 165, 1-9.	5.9	48
24	Development of superhydrophobic coatings on AISI 304 austenitic stainless steel with different surface pretreatments. Thin Solid Films, 2019, 671, 22-30.	0.8	20
25	Tribological and Mechanical Properties of Polyester Based Composites with SiC Particles. Lecture Notes in Mechanical Engineering, 2019, , 789-795.	0.3	0
26	Environmentally Friendly Plasma Activation of Acrylonitrile-Butadiene-Styrene and Polydimethylsiloxane Surfaces to Improve Paint Adhesion. Coatings, 2018, 8, 428.	1.2	10
27	Infiltration behaviour of liquids over fibres or woven. IOP Conference Series: Materials Science and Engineering, 2018, 369, 012012.	0.3	0
28	Development of Silane-Based Coatings with Zirconia Nanoparticles Combining Wetting, Tribological, and Aesthetical Properties. Coatings, 2018, 8, 368.	1.2	20
29	Kinetics of curing process in carbon/epoxy nano-composites. IOP Conference Series: Materials Science and Engineering, 2018, 369, 012011.	0.3	7
30	Influence of Low Pressure Plasma Treatment on the Durability of Thermoplastic Composites LDPE-flax/coconut under Thermal and Humidity Conditions. Fibers and Polymers, 2018, 19, 1327-1334.	1.1	22
31	Influence of plasma treatment on the adhesion between a polymeric matrix and natural fibres. Cellulose, 2017, 24, 1791-1801.	2.4	46
32	Analysis of the effect of size, amount and surface treatment on the tensile strain of a brittle adhesive reinforced with micro cork particles. Applied Adhesion Science, 2017, 5, .	1.5	6
33	Fracture toughness in Mode I (G_{IC}) for ductile adhesives. Journal of Physics: Conference Series, 2017, 843, 012008.	0.3	4
34	Erosion-wear, mechanical and thermal properties of silica filled epoxy nanocomposites. Composites Part B: Engineering, 2017, 120, 42-53.	5.9	88
35	Micro Cork Particles as Adhesive Reinforcement Material for Brittle Resins. Advanced Structured Materials, 2017, , 399-418.	0.3	2
36	Study of the behaviour of adhesive joints of steel with CFRP for its application in bus structures. Composites Part B: Engineering, 2017, 129, 41-46.	5.9	75

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37	Wear resistance of hydrophobic surfaces. <i>Journal of Physics: Conference Series</i> , 2017, 843, 012067.	0.3	0
38	Toughness of a brittle epoxy resin reinforced with micro cork particles: Effect of size, amount and surface treatment. <i>Composites Part B: Engineering</i> , 2017, 114, 299-310.	5.9	71
39	Effect of atmospheric plasma torch on ballistic woven aramid. <i>Textile Research Journal</i> , 2017, 87, 2358-2367.	1.1	6
40	Influence of the type of solvent on the development of superhydrophobicity from silane-based solution containing nanoparticles. <i>Applied Surface Science</i> , 2017, 397, 87-94.	3.1	31
41	Wear resistance of polypropylene-SiC composite. <i>Journal of Physics: Conference Series</i> , 2017, 843, 012066.	0.3	0
42	Mechanical and thermal behaviour of an acrylic bone cement modified with a triblock copolymer. <i>Journal of Materials Science: Materials in Medicine</i> , 2016, 27, 72.	1.7	5
43	Silane pretreatment of electrogalvanized steels: Effect on adhesive properties. <i>International Journal of Adhesion and Adhesives</i> , 2016, 65, 54-62.	1.4	30
44	Influence of Acrylic Adhesive Viscosity and Surface Roughness on the Properties of Adhesive Joint. <i>Journal of Adhesion</i> , 2016, 92, 877-891.	1.8	34
45	Experimental method for the determination of material parameters of plasticity models for toughened adhesives. <i>International Journal of Adhesion and Adhesives</i> , 2016, 68, 182-187.	1.4	7
46	Tensile Strength of a Brittle Epoxy Resin Reinforced with Micro Cork Particles: Effect of Size, Amount and Surface Treatment. <i>Microscopy and Microanalysis</i> , 2015, 21, 9-10.	0.2	6
47	Evaluation of Elution and Mechanical Properties of High-Dose Antibiotic-Loaded Bone Cement: Comparative <i>in Vitro</i> Study of the Influence of Vancomycin and Cefazolin. <i>Journal of Arthroplasty</i> , 2015, 30, 1423-1429.	1.5	72
48	Evaluation of Adhesion Improvement of a GFRP Treated with Atmospheric Plasma Torch. <i>Journal of Adhesion</i> , 2015, 91, 937-949.	1.8	3
49	Kinetic analysis and characterization of an epoxy/cork adhesive. <i>Thermochimica Acta</i> , 2015, 604, 52-60.	1.2	31
50	Aging by moisture and/or temperature of epoxy/SiC composites: Thermal and mechanical properties. <i>Journal of Composite Materials</i> , 2015, 49, 2963-2975.	1.2	23
51	Microstructural influence on corrosion properties of aluminium composites reinforced with amorphous iron borides. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2014, 65, 678-684.	0.8	11
52	Effects of Vancomycin, Cefazolin and Test Conditions on the Wear Behavior of Bone Cement. <i>Journal of Arthroplasty</i> , 2014, 29, 16-22.	1.5	15
53	Surface modification of aircraft used composites for adhesive bonding. <i>International Journal of Adhesion and Adhesives</i> , 2014, 50, 157-163.	1.4	100
54	Cavitation resistance of epoxy-based multilayer coatings: Surface damage and crack growth kinetics during the incubation stage. <i>Wear</i> , 2014, 316, 124-132.	1.5	20

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55	Cold plasma effect on short glass fibre reinforced composites adhesion properties. International Journal of Adhesion and Adhesives, 2014, 48, 85-91.	1.4	25
56	Effect of surface treatments on natural cork: surface energy, adhesion, and acoustic insulation. Wood Science and Technology, 2014, 48, 207-224.	1.4	42
57	Polymerization kinetics of boron carbide/epoxy composites. Thermochemica Acta, 2014, 575, 144-150.	1.2	27
58	Influence of the physiological medium on the mechanical properties of bone cement: Can current studies be extrapolated?. Revista Española De Cirugía Ortopédica Y Traumatología, 2014, 58, 3-10.	0.1	7
59	Atmospheric plasma torch treatment of polyethylene/boron composites: Effect on thermal stability. Surface and Coatings Technology, 2014, 239, 70-77.	2.2	16
60	Assessment of atmospheric plasma treatment cleaning effect on steel surfaces. Surface and Coatings Technology, 2013, 236, 450-456.	2.2	35
61	Utilização de micro partículas de cortiça como material de reforço em adesivos estruturais frígidos. Ciência & Tecnologia Dos Materiais, 2013, 25, 42-49.	0.5	5
62	Modification of glass surfaces adhesion properties by atmospheric pressure plasma torch. International Journal of Adhesion and Adhesives, 2013, 44, 1-8.	1.4	31
63	Effect of tetraethoxysilane coating on the improvement of plasma treated polypropylene adhesion. Applied Surface Science, 2013, 280, 850-857.	3.1	32
64	Influence of the Size and Amount of Cork Particles on the Impact Toughness of a Structural Adhesive. Journal of Adhesion, 2012, 88, 452-470.	1.8	46
65	Atmospheric Pressure Plasma Hydrophilic Modification of a Silicone Surface. Journal of Adhesion, 2012, 88, 321-336.	1.8	27
66	Epoxy Composite Reinforced with Nano and Micro SiC Particles: Curing Kinetics and Mechanical Properties. Journal of Adhesion, 2012, 88, 418-434.	1.8	66
67	Development of improved polypropylene adhesive bonding by abrasion and atmospheric plasma surface modifications. International Journal of Adhesion and Adhesives, 2012, 33, 1-6.	1.4	74
68	Effect of EtOH/H ₂ O Ratio and pH on Bis-Sulfur Silane Solutions for Electroplated Steel Joints Based on Anaerobic Adhesives. Journal of Adhesion, 2011, 87, 688-708.	1.8	6
69	Influence of Surface Preparation on the Fracture Behavior of Acrylic Adhesive/CFRP Composite Joints. Journal of Adhesion, 2011, 87, 366-381.	1.8	32
70	Effect of Moisture and Temperature on the Mechanical Properties of an Epoxy Reinforced with Boron Carbide. Journal of Adhesion Science and Technology, 2011, 25, 2445-2460.	1.4	33
71	Influence of thread geometry on the performance of retaining anaerobic adhesives. International Journal of Adhesion and Adhesives, 2011, 31, 429-433.	1.4	3
72	Extreme durability of wettability changes on polyolefin surfaces by atmospheric pressure plasma torch. Surface and Coatings Technology, 2010, 205, 396-402.	2.2	94

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73	The Influence of pH on the Hydrolysis Process of $\hat{\Gamma}^3$ -Methacryloxypropyltrimethoxysilane, Analyzed by FT-IR, and the Silanization of Electrogalvanized Steel. Journal of Adhesion Science and Technology, 2010, 24, 1131-1143.	1.4	34
74	Structural and Mechanical Characterization of $\hat{\Gamma}^3$ -Methacryloxypropyltrimethoxysilane (MPS) on Zn-Electrocoated Steel. Journal of Adhesion Science and Technology, 2010, 24, 1885-1901.	1.4	8
75	Control of Wettability of Polymers by Surface Roughness Modification. Journal of Adhesion Science and Technology, 2010, 24, 1869-1883.	1.4	77
76	Study by XPS of an Atmospheric Plasma-Torch Treated Glass: Influence on Adhesion. Journal of Adhesion Science and Technology, 2010, 24, 1841-1854.	1.4	17
77	The Effect of Surface Treatment on the Behavior of Toughened Acrylic Adhesive/GRP(epoxy) Composite Joints. Journal of Adhesion Science and Technology, 2010, 24, 1903-1916.	1.4	31
78	Friction of PM ferritic stainless steels at temperatures up to 300 $\hat{\text{A}}$ C. Tribology International, 2009, 42, 1199-1205.	3.0	13
79	Surface modifications of polycarbonate (PC) and acrylonitrile butadiene styrene (ABS) copolymer by treatment with atmospheric plasma. Surface and Coatings Technology, 2009, 203, 2173-2180.	2.2	108
80	Analysis of hydrolysis process of $\hat{\Gamma}^3$ -methacryloxypropyltrimethoxysilane and its influence on the formation of silane coatings on 6063 aluminum alloy. Applied Surface Science, 2009, 255, 6386-6390.	3.1	104
81	Effect of Boron Carbide Filler on the Curing and Mechanical Properties of an Epoxy Resin. Journal of Adhesion, 2009, 85, 216-238.	1.8	102
82	Effect of Silane Treatment on SiC Particles Used as Reinforcement in Epoxy Resins. Journal of Adhesion, 2009, 85, 287-301.	1.8	47
83	Optimization of the Design of a Double-Cup Specimen Using the Finite Element Method for Testing Adhesive Bonds Under Tensile Loads. Journal of Adhesion Science and Technology, 2009, 23, 1357-1368.	1.4	0
84	Analytical solution to calculate the stress distribution in pin-and-collar samples bonded with anaerobic adhesives (following ISO 10123 standard). International Journal of Adhesion and Adhesives, 2008, 28, 405-410.	1.4	8
85	Influence of Silanisation Parameters With $\hat{\Gamma}^3$ -Methacryloxypropyltrimethoxysilane on Durability of Aluminium/Acrylic Adhesive Joints. Journal of Adhesion Science and Technology, 2008, 22, 1461-1475.	1.4	12
86	Study of the System Mo-Fe-B for Wear-Resistant Materials. Materials Science Forum, 2008, 591-593, 265-270.	0.3	0
87	Analysis of substrate preparation and curing position on mechanical properties of adhesive joints using statistical methods. Journal of Adhesion Science and Technology, 2007, 21, 1045-1058.	1.4	4
88	Analysis of shear strength of cylindrical assemblies with anaerobic adhesives using Weibull statistics. Journal of Adhesion Science and Technology, 2007, 21, 1659-1669.	1.4	3
89	Sintering Stainless Steels with Boron Addition in Nitrogen Base Atmosphere. Materials Science Forum, 2007, 534-536, 733-736.	0.3	2
90	Optimization of processing parameters for the Al+10% B4C system obtained by mechanical alloying. Journal of Materials Processing Technology, 2007, 184, 441-446.	3.1	86

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91	Effect of the boron content in the aluminium/boron composite. Journal of Alloys and Compounds, 2006, 422, 67-72.	2.8	30
92	Differential thermal analysis of the Al+20% (Fe ϵ 50%B) system. Journal of Solid State Chemistry, 2006, 179, 2787-2790.	1.4	14
93	Influence of Forming on the Mechanical Properties of the Al + 50 % B₄/sub>C System. Materials Science Forum, 2006, 530-531, 304-309.	0.3	0
94	Ultra High Carbon Steels Obtained by Powder Metallurgy. Materials Science Forum, 2006, 530-531, 328-333.	0.3	1
95	Adhesive bonding of aluminium with structural acrylic adhesives: durability in wet environments. Journal of Adhesion Science and Technology, 2006, 20, 1801-1818.	1.4	47
96	Manufacturing of Porous Boron Steels Potentially Useful as Nuclear Materials. Journal of Nuclear Science and Technology, 2006, 43, 866-873.	0.7	3
97	Influence of the sintering temperature on mechanical properties of the Al + 20 % Fe/B system. Revista De Metalurgia, 2006, 42, .	0.1	3
98	Borides and vitreous compounds sintered as high-energy fuels. Journal of Solid State Chemistry, 2004, 177, 619-627.	1.4	25
99	Preparation of Fe/B powders by mechanical alloying. Journal of Solid State Chemistry, 2004, 177, 382-388.	1.4	21
100	Atmosphere influence in sintering process of stainless steels matrix composites reinforced with hard particles. Composites Science and Technology, 2003, 63, 69-79.	3.8	53
101	Effect of intermetallic particles on wear behaviour of stainless steel matrix composites. Tribology International, 2003, 36, 547-551.	3.0	34
102	Influence of carbon and aluminium additions on the Fe ϵ 10% B (wt.) system. Journal of Materials Processing Technology, 2003, 143-144, 28-33.	3.1	12
103	Numerical approach for estimating the elastic modulus in MMCs as a function of sintering temperature. Journal of Materials Processing Technology, 2003, 143-144, 698-702.	3.1	3
104	Study of the interfaces between austenite and ferrite grains in P/M duplex stainless steels. Journal of the European Ceramic Society, 2003, 23, 2813-2819.	2.8	42
105	Oxidation resistance of sintered stainless steels: effect of yttria additions. Corrosion Science, 2003, 45, 1343-1354.	3.0	61
106	Effect of Refractory Element Additions on the Properties of Sintered Stainless Steels. Materials Science Forum, 2003, 416-418, 381-387.	0.3	0
107	Atmosphere Influence on Sintered 316L Austenitic Stainless Steel Matrix Composites Reinforced with Intermetallic and Carbide Particles. Key Engineering Materials, 2002, 230-232, 102-105.	0.4	0
108	Reinforcing 316L stainless steel with intermetallic and carbide particles. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 335, 1-5.	2.6	49

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109	Sintered High Carbon Steels: Effect of Thermomechanical Treatments on their Mechanical and Wear Performance. Materials Science Forum, 0, 591-593, 271-276.	0.3	1
110	Preparation of Cutting Inserts with Binder of UHCS. Materials Science Forum, 0, 660-661, 399-404.	0.3	0
111	Study through Potentiodynamic Techniques of the Corrosion Resistance of Different Aluminium Base MMCs with Boron Additions. Materials Science Forum, 0, 660-661, 203-208.	0.3	4
112	Effect of Sintering Temperature on the Formation of Intermetallics in Al-Fe-B Nanocomposite. Materials Science Forum, 0, 802, 130-134.	0.3	0
113	Polyolefinic Surface Activation by Low and Atmospheric Pressure Plasma Treatments. Materials Science Forum, 0, 805, 149-154.	0.3	0
114	Behaviour of Fluids in Porous Materials. Materials Science Forum, 0, 802, 303-308.	0.3	1