

J Abenojar

List of Publications by Year in descending order

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115
papers

2,835
citations

147786
31
h-index

206102
48
g-index

118
all docs

118
docs citations

118
times ranked

2492
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of a green epoxy adhesive for cork by adding lignin: thermal and bonding properties. Wood Science and Technology, 2022, 56, 721-742.	3.2	2
2	Experimental and numerical studies of polyamide 11 and 12 surfaces modified by atmospheric pressure plasma treatment. Surfaces and Interfaces, 2022, 32, 102154.	3.0	11
3	Decomposition kinetics and lifetime estimation of natural fiber reinforced composites: Influence of plasma treatment and fiber type. Journal of Industrial Textiles, 2021, 51, 594-610.	2.4	2
4	Advanced G-MPS-PMMA Bone Cements: Influence of Graphene Silanisation on Fatigue Performance, Thermal Properties and Biocompatibility. Nanomaterials, 2021, 11, 139.	4.1	4
5	Mechanical properties and fire-resistance of composites with marble particles. Journal of Materials Research and Technology, 2021, 12, 1403-1417.	5.8	15
6	One-Step Enameling and Sintering of Low-Carbon Steels. Metals, 2021, 11, 1007.	2.3	3
7	Characterization of hybrid biocomposite Poly-Butyl-Succinate/Carbon fibers/Flax fibers. Composites Part B: Engineering, 2021, 221, 109033.	12.0	24
8	Recent Progress in Carbon Fiber Reinforced Polymers Recycling: A Review of Recycling Methods and Reuse of Carbon Fibers. Materials, 2021, 14, 6401.	2.9	37
9	Comparative Characterization of Hot-Pressed Polyamide 11 and 12: Mechanical, Thermal and Durability Properties. Polymers, 2021, 13, 3553.	4.5	27
10	Recent Progress in Hybrid Biocomposites: Mechanical Properties, Water Absorption, and Flame Retardancy. Materials, 2020, 13, 5145.	2.9	52
11	Effect of APPT Treatment on Mechanical Properties and Durability of Green Composites with Woven Flax. Materials, 2020, 13, 4762.	2.9	10
12	Thermal characterization and diffusivity of two mono-component epoxies for transformer insulation. International Journal of Adhesion and Adhesives, 2020, 103, 102726.	2.9	8
13	Effect of moisture and temperature on thermal and mechanical properties of structural polyurethane adhesive joints. Composite Structures, 2020, 247, 112443.	5.8	26
14	Influence of sample dimensions on single lap joints: effect of interactions between parameters. Journal of Adhesion, 2020, , 1-12.	3.0	5
15	Coating cork particles with iron oxide: effect on magnetic properties. Wood Science and Technology, 2020, 54, 869-889.	3.2	9
16	Effect of silica nanoparticles on the curing kinetics and erosion wear of an epoxy powder coating. Journal of Materials Research and Technology, 2020, 9, 455-464.	5.8	18
17	Mechanical Characterisation of Graded Single Lap Joints Using Magnetised Cork Microparticles. Advanced Structured Materials, 2020, , 153-174.	0.5	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. Composites Part B: Engineering, 2019, 176, 107194.	12.0	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.	5.8	12
20	Characterization a polyurethane-based reactive hot melt adhesive for applications in materials. DYNA (Colombia), 2019, 86, 247-253.	0.4	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.	2.9	13
22	Graphene Oxide and Graphene Reinforced PMMA Bone Cements: Evaluation of Thermal Properties and Biocompatibility. Materials, 2019, 12, 3146.	2.9	30
23	Durability of steel-CFRP structural adhesive joints with polyurethane adhesives. Composites Part B: Engineering, 2019, 165, 1-9.	12.0	48
24	Development of superhydrophobic coatings on AISI 304 austenitic stainless steel with different surface pretreatments. Thin Solid Films, 2019, 671, 22-30.	1.8	20
25	Tribological and Mechanical Properties of Polyester Based Composites with SiC Particles. Lecture Notes in Mechanical Engineering, 2019, , 789-795.	0.4	0
26	Environmentally Friendly Plasma Activation of Acrylonitrile-Butadiene-Styrene and Polydimethylsiloxane Surfaces to Improve Paint Adhesion. Coatings, 2018, 8, 428.	2.6	10
27	Infiltration behaviour of liquids over fibres or woven. IOP Conference Series: Materials Science and Engineering, 2018, 369, 012012.	0.6	0
28	Development of Silane-Based Coatings with Zirconia Nanoparticles Combining Wetting, Tribological, and Aesthetical Properties. Coatings, 2018, 8, 368.	2.6	20
29	Kinetics of curing process in carbon/epoxy nano-composites. IOP Conference Series: Materials Science and Engineering, 2018, 369, 012011.	0.6	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.	2.1	22
31	Influence of plasma treatment on the adhesion between a polymeric matrix and natural fibres. Cellulose, 2017, 24, 1791-1801.	4.9	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.	0.4	4
34	Erosion-wear, mechanical and thermal properties of silica filled epoxy nanocomposites. Composites Part B: Engineering, 2017, 120, 42-53.	12.0	88
35	Micro Cork Particles as Adhesive Reinforcement Material for Brittle Resins. Advanced Structured Materials, 2017, , 399-418.	0.5	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.	12.0	75

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37	Wear resistance of hydrophobic surfaces. Journal of Physics: Conference Series, 2017, 843, 012067.	0.4	0
38	Toughness of a brittle epoxy resin reinforced with micro cork particles: Effect of size, amount and surface treatment. Composites Part B: Engineering, 2017, 114, 299-310.	12.0	71
39	Effect of atmospheric plasma torch on ballistic woven aramid. Textile Research Journal, 2017, 87, 2358-2367.	2.2	6
40	Influence of the type of solvent on the development of superhydrophobicity from silane-based solution containing nanoparticles. Applied Surface Science, 2017, 397, 87-94.	6.1	31
41	Wear resistance of polypropylene-SiC composite. Journal of Physics: Conference Series, 2017, 843, 012066.	0.4	0
42	Mechanical and thermal behaviour of an acrylic bone cement modified with a triblock copolymer. Journal of Materials Science: Materials in Medicine, 2016, 27, 72.	3.6	5
43	Silane pretreatment of electrogalvanized steels: Effect on adhesive properties. International Journal of Adhesion and Adhesives, 2016, 65, 54-62.	2.9	30
44	Influence of Acrylic Adhesive Viscosity and Surface Roughness on the Properties of Adhesive Joint. Journal of Adhesion, 2016, 92, 877-891.	3.0	34
45	Experimental method for the determination of material parameters of plasticity models for toughened adhesives. International Journal of Adhesion and Adhesives, 2016, 68, 182-187.	2.9	7
46	Tensile Strength of a Brittle Epoxy Resin Reinforced with Micro Cork Particles: Effect of Size, Amount and Surface Treatment. Microscopy and Microanalysis, 2015, 21, 9-10.	0.4	6
47	Evaluation of Elution and Mechanical Properties of High-Dose Antibiotic-Loaded Bone Cement: Comparative "In Vitro" Study of the Influence of Vancomycin and Cefazolin. Journal of Arthroplasty, 2015, 30, 1423-1429.	3.1	72
48	Evaluation of Adhesion Improvement of a GFRP Treated with Atmospheric Plasma Torch. Journal of Adhesion, 2015, 91, 937-949.	3.0	3
49	Kinetic analysis and characterization of an epoxy/cork adhesive. Thermochimica Acta, 2015, 604, 52-60.	2.7	31
50	Aging by moisture and/or temperature of epoxy/SiC composites: Thermal and mechanical properties. Journal of Composite Materials, 2015, 49, 2963-2975.	2.4	23
51	Microstructural influence on corrosion properties of aluminium composites reinforced with amorphous iron borides. Materials and Corrosion - Werkstoffe Und Korrosion, 2014, 65, 678-684.	1.5	11
52	Effects of Vancomycin, Cefazolin and Test Conditions on the Wear Behavior of Bone Cement. Journal of Arthroplasty, 2014, 29, 16-22.	3.1	15
53	Surface modification of aircraft used composites for adhesive bonding. International Journal of Adhesion and Adhesives, 2014, 50, 157-163.	2.9	100
54	Cavitation resistance of epoxy-based multilayer coatings: Surface damage and crack growth kinetics during the incubation stage. Wear, 2014, 316, 124-132.	3.1	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.	2.9	25
56	Effect of surface treatments on natural cork: surface energy, adhesion, and acoustic insulation. Wood Science and Technology, 2014, 48, 207-224.	3.2	42
57	Polymerization kinetics of boron carbide/epoxy composites. Thermochimica Acta, 2014, 575, 144-150.	2.7	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.	4.8	16
60	Assessment of atmospheric plasma treatment cleaning effect on steel surfaces. Surface and Coatings Technology, 2013, 236, 450-456.	4.8	35
61	Utilização de micro partículas de cortiça como material de reforço em adesivos estruturais frêgeis. 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.	2.9	31
63	Effect of tetraethoxysilane coating on the improvement of plasma treated polypropylene adhesion. Applied Surface Science, 2013, 280, 850-857.	6.1	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.	3.0	46
65	Atmospheric Pressure Plasma Hydrophilic Modification of a Silicone Surface. Journal of Adhesion, 2012, 88, 321-336.	3.0	27
66	Epoxy Composite Reinforced with Nano and Micro SiC Particles: Curing Kinetics and Mechanical Properties. Journal of Adhesion, 2012, 88, 418-434.	3.0	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.	2.9	74
68	Effect of EtOH/H ₂ O Ratio and pH on Bis-Sulfur Silane Solutions for Electrogalvanized Steel Joints Based on Anaerobic Adhesives. Journal of Adhesion, 2011, 87, 688-708.	3.0	6
69	Influence of Surface Preparation on the Fracture Behavior of Acrylic Adhesive/CFRP Composite Joints. Journal of Adhesion, 2011, 87, 366-381.	3.0	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.	2.6	33
71	Influence of thread geometry on the performance of retaining anaerobic adhesives. International Journal of Adhesion and Adhesives, 2011, 31, 429-433.	2.9	3
72	Extreme durability of wettability changes on polyolefin surfaces by atmospheric pressure plasma torch. Surface and Coatings Technology, 2010, 205, 396-402.	4.8	94

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73	The Influence of pH on the Hydrolysis Process of $\hat{\text{I}}^3$ -Methacryloxypropyltrimethoxysilane, Analyzed by FT-IR, and the Silanization of Electrogalvanized Steel. Journal of Adhesion Science and Technology, 2010, 24, 1131-1143.	2.6	34
74	Structural and Mechanical Characterization of $\hat{\text{I}}^3$ -Methacryloxypropyltrimethoxysilane (MPS) on Zn-Electrocoated Steel. Journal of Adhesion Science and Technology, 2010, 24, 1885-1901.	2.6	8
75	Control of Wettability of Polymers by Surface Roughness Modification. Journal of Adhesion Science and Technology, 2010, 24, 1869-1883.	2.6	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.	2.6	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.	2.6	31
78	Friction of PM ferritic stainless steels at temperatures up to 300°C. Tribology International, 2009, 42, 1199-1205.	5.9	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.	4.8	108
80	Analysis of hydrolysis process of $\hat{\text{I}}^3$ -methacryloxypropyltrimethoxysilane and its influence on the formation of silane coatings on 6063 aluminum alloy. Applied Surface Science, 2009, 255, 6386-6390.	6.1	104
81	Effect of Boron Carbide Filler on the Curing and Mechanical Properties of an Epoxy Resin. Journal of Adhesion, 2009, 85, 216-238.	3.0	102
82	Effect of Silane Treatment on SiC Particles Used as Reinforcement in Epoxy Resins. Journal of Adhesion, 2009, 85, 287-301.	3.0	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.	2.6	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.	2.9	8
85	Influence of Silanisation Parameters With $\hat{\text{I}}^3$ -Methacryloxypropyltrimethoxysilane on Durability of Aluminium/Acrylic Adhesive Joints. Journal of Adhesion Science and Technology, 2008, 22, 1461-1475.	2.6	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.	2.6	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.	2.6	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.	6.3	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.	5.5	30
92	Differential thermal analysis of the Al+20% (Fe+50%B) system. Journal of Solid State Chemistry, 2006, 179, 2787-2790.	2.9	14
93	Influence of Forming on the Mechanical Properties of the Al + 50 % B₄C 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.	2.6	47
96	Manufacturing of Porous Boron Steels Potentially Useful as Nuclear Materials. Journal of Nuclear Science and Technology, 2006, 43, 866-873.	1.3	3
97	Influence of the sintering temperature on mechanical properties of the Al + 20 % Fe/B system. Revista De Metalurgia, 2006, 42, .	0.5	3
98	Manufacturing of Porous Boron Steels Potentially Useful as Nuclear Materials. Journal of Nuclear Science and Technology, 2006, 43, 866-873.	1.3	0
99	Borides and vitreous compounds sintered as high-energy fuels. Journal of Solid State Chemistry, 2004, 177, 619-627.	2.9	25
100	Preparation of Fe/B powders by mechanical alloying. Journal of Solid State Chemistry, 2004, 177, 382-388.	2.9	21
101	Atmosphere influence in sintering process of stainless steels matrix composites reinforced with hard particles. Composites Science and Technology, 2003, 63, 69-79.	7.8	53
102	Effect of intermetallic particles on wear behaviour of stainless steel matrix composites. Tribology International, 2003, 36, 547-551.	5.9	34
103	Influence of carbon and aluminium additions on the Fe+10% B (wt.) system. Journal of Materials Processing Technology, 2003, 143-144, 28-33.	6.3	12
104	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.	6.3	3
105	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.	5.7	42
106	Oxidation resistance of sintered stainless steels: effect of yttria additions. Corrosion Science, 2003, 45, 1343-1354.	6.6	61
107	Effect of Refractory Element Additions on the Properties of Sintered Stainless Steels. Materials Science Forum, 2003, 416-418, 381-387.	0.3	0
108	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

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109	Reinforcing 316L stainless steel with intermetallic and carbide particles. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 335, 1-5.	5.6	49
110	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
111	Preparation of Cutting Inserts with Binder of UHCS. Materials Science Forum, 0, 660-661, 399-404.	0.3	0
112	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
113	Effect of Sintering Temperature on the Formation of Intermetallics in Al-Fe-B Nanocomposite. Materials Science Forum, 0, 802, 130-134.	0.3	0
114	Polyolefinic Surface Activation by Low and Atmospheric Pressure Plasma Treatments. Materials Science Forum, 0, 805, 149-154.	0.3	0
115	Behaviour of Fluids in Porous Materials. Materials Science Forum, 0, 802, 303-308.	0.3	1