

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
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118
all docs

118
docs citations

118
times ranked

2492
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface modifications of polycarbonate (PC) and acrylonitrile butadiene styrene (ABS) copolymer by treatment with atmospheric plasma. <i>Surface and Coatings Technology</i> , 2009, 203, 2173-2180.	4.8	108
2	Analysis of hydrolysis process of $\hat{1}^3$ -methacryloxypropyltrimethoxysilane and its influence on the formation of silane coatings on 6063 aluminum alloy. <i>Applied Surface Science</i> , 2009, 255, 6386-6390.	6.1	104
3	Effect of Boron Carbide Filler on the Curing and Mechanical Properties of an Epoxy Resin. <i>Journal of Adhesion</i> , 2009, 85, 216-238.	3.0	102
4	Surface modification of aircraft used composites for adhesive bonding. <i>International Journal of Adhesion and Adhesives</i> , 2014, 50, 157-163.	2.9	100
5	Extreme durability of wettability changes on polyolefin surfaces by atmospheric pressure plasma torch. <i>Surface and Coatings Technology</i> , 2010, 205, 396-402.	4.8	94
6	Erosion-wear, mechanical and thermal properties of silica filled epoxy nanocomposites. <i>Composites Part B: Engineering</i> , 2017, 120, 42-53.	12.0	88
7	Optimization of processing parameters for the Al+10% B4C system obtained by mechanical alloying. <i>Journal of Materials Processing Technology</i> , 2007, 184, 441-446.	6.3	86
8	Control of Wettability of Polymers by Surface Roughness Modification. <i>Journal of Adhesion Science and Technology</i> , 2010, 24, 1869-1883.	2.6	77
9	Study of the behaviour of adhesive joints of steel with CFRP for its application in bus structures. <i>Composites Part B: Engineering</i> , 2017, 129, 41-46.	12.0	75
10	Development of improved polypropylene adhesive bonding by abrasion and atmospheric plasma surface modifications. <i>International Journal of Adhesion and Adhesives</i> , 2012, 33, 1-6.	2.9	74
11	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.	3.1	72
12	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.	12.0	71
13	Epoxy Composite Reinforced with Nano and Micro SiC Particles: Curing Kinetics and Mechanical Properties. <i>Journal of Adhesion</i> , 2012, 88, 418-434.	3.0	66
14	Oxidation resistance of sintered stainless steels: effect of yttria additions. <i>Corrosion Science</i> , 2003, 45, 1343-1354.	6.6	61
15	Atmosphere influence in sintering process of stainless steels matrix composites reinforced with hard particles. <i>Composites Science and Technology</i> , 2003, 63, 69-79.	7.8	53
16	Recent Progress in Hybrid Biocomposites: Mechanical Properties, Water Absorption, and Flame Retardancy. <i>Materials</i> , 2020, 13, 5145.	2.9	52
17	Reinforcing 316L stainless steel with intermetallic and carbide particles. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002, 335, 1-5.	5.6	49
18	Durability of steel-CFRP structural adhesive joints with polyurethane adhesives. <i>Composites Part B: Engineering</i> , 2019, 165, 1-9.	12.0	48

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19	Adhesive bonding of aluminium with structural acrylic adhesives: durability in wet environments. <i>Journal of Adhesion Science and Technology</i> , 2006, 20, 1801-1818.	2.6	47
20	Effect of Silane Treatment on SiC Particles Used as Reinforcement in Epoxy Resins. <i>Journal of Adhesion</i> , 2009, 85, 287-301.	3.0	47
21	Influence of the Size and Amount of Cork Particles on the Impact Toughness of a Structural Adhesive. <i>Journal of Adhesion</i> , 2012, 88, 452-470.	3.0	46
22	Influence of plasma treatment on the adhesion between a polymeric matrix and natural fibres. <i>Cellulose</i> , 2017, 24, 1791-1801.	4.9	46
23	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.	12.0	46
24	Study of the interfaces between austenite and ferrite grains in P/M duplex stainless steels. <i>Journal of the European Ceramic Society</i> , 2003, 23, 2813-2819.	5.7	42
25	Effect of surface treatments on natural cork: surface energy, adhesion, and acoustic insulation. <i>Wood Science and Technology</i> , 2014, 48, 207-224.	3.2	42
26	Recent Progress in Carbon Fiber Reinforced Polymers Recycling: A Review of Recycling Methods and Reuse of Carbon Fibers. <i>Materials</i> , 2021, 14, 6401.	2.9	37
27	Assessment of atmospheric plasma treatment cleaning effect on steel surfaces. <i>Surface and Coatings Technology</i> , 2013, 236, 450-456.	4.8	35
28	Effect of intermetallic particles on wear behaviour of stainless steel matrix composites. <i>Tribology International</i> , 2003, 36, 547-551.	5.9	34
29	The Influence of pH on the Hydrolysis Process of $\hat{1}^3$ -Methacryloxypropyltrimethoxysilane, Analyzed by FT-IR, and the Silanization of Electrogalvanized Steel. <i>Journal of Adhesion Science and Technology</i> , 2010, 24, 1131-1143.	2.6	34
30	Influence of Acrylic Adhesive Viscosity and Surface Roughness on the Properties of Adhesive Joint. <i>Journal of Adhesion</i> , 2016, 92, 877-891.	3.0	34
31	Effect of Moisture and Temperature on the Mechanical Properties of an Epoxy Reinforced with Boron Carbide. <i>Journal of Adhesion Science and Technology</i> , 2011, 25, 2445-2460.	2.6	33
32	Influence of Surface Preparation on the Fracture Behavior of Acrylic Adhesive/CFRP Composite Joints. <i>Journal of Adhesion</i> , 2011, 87, 366-381.	3.0	32
33	Effect of tetraethoxysilane coating on the improvement of plasma treated polypropylene adhesion. <i>Applied Surface Science</i> , 2013, 280, 850-857.	6.1	32
34	The Effect of Surface Treatment on the Behavior of Toughened Acrylic Adhesive/GRP(epoxy) Composite Joints. <i>Journal of Adhesion Science and Technology</i> , 2010, 24, 1903-1916.	2.6	31
35	Modification of glass surfaces adhesion properties by atmospheric pressure plasma torch. <i>International Journal of Adhesion and Adhesives</i> , 2013, 44, 1-8.	2.9	31
36	Kinetic analysis and characterization of an epoxy/cork adhesive. <i>Thermochimica Acta</i> , 2015, 604, 52-60.	2.7	31

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37	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.	6.1	31
38	Effect of the boron content in the aluminium/boron composite. <i>Journal of Alloys and Compounds</i> , 2006, 422, 67-72.	5.5	30
39	Silane pretreatment of electrogalvanized steels: Effect on adhesive properties. <i>International Journal of Adhesion and Adhesives</i> , 2016, 65, 54-62.	2.9	30
40	Graphene Oxide and Graphene Reinforced PMMA Bone Cements: Evaluation of Thermal Properties and Biocompatibility. <i>Materials</i> , 2019, 12, 3146.	2.9	30
41	Atmospheric Pressure Plasma Hydrophilic Modification of a Silicone Surface. <i>Journal of Adhesion</i> , 2012, 88, 321-336.	3.0	27
42	Polymerization kinetics of boron carbide/epoxy composites. <i>Thermochimica Acta</i> , 2014, 575, 144-150.	2.7	27
43	Comparative Characterization of Hot-Pressed Polyamide 11 and 12: Mechanical, Thermal and Durability Properties. <i>Polymers</i> , 2021, 13, 3553.	4.5	27
44	Effect of moisture and temperature on thermal and mechanical properties of structural polyurethane adhesive joints. <i>Composite Structures</i> , 2020, 247, 112443.	5.8	26
45	Borides and vitreous compounds sintered as high-energy fuels. <i>Journal of Solid State Chemistry</i> , 2004, 177, 619-627.	2.9	25
46	Cold plasma effect on short glass fibre reinforced composites adhesion properties. <i>International Journal of Adhesion and Adhesives</i> , 2014, 48, 85-91.	2.9	25
47	Characterization of hybrid biocomposite Poly-Butyl-Succinate/Carbon fibers/Flax fibers. <i>Composites Part B: Engineering</i> , 2021, 221, 109033.	12.0	24
48	Aging by moisture and/or temperature of epoxy/SiC composites: Thermal and mechanical properties. <i>Journal of Composite Materials</i> , 2015, 49, 2963-2975.	2.4	23
49	Influence of Low Pressure Plasma Treatment on the Durability of Thermoplastic Composites LDPE-flax/coconut under Thermal and Humidity Conditions. <i>Fibers and Polymers</i> , 2018, 19, 1327-1334.	2.1	22
50	Preparation of Fe/B powders by mechanical alloying. <i>Journal of Solid State Chemistry</i> , 2004, 177, 382-388.	2.9	21
51	Cavitation resistance of epoxy-based multilayer coatings: Surface damage and crack growth kinetics during the incubation stage. <i>Wear</i> , 2014, 316, 124-132.	3.1	20
52	Development of Silane-Based Coatings with Zirconia Nanoparticles Combining Wetting, Tribological, and Aesthetical Properties. <i>Coatings</i> , 2018, 8, 368.	2.6	20
53	Development of superhydrophobic coatings on AISI 304 austenitic stainless steel with different surface pretreatments. <i>Thin Solid Films</i> , 2019, 671, 22-30.	1.8	20
54	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.	5.8	18

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55	Study by XPS of an Atmospheric Plasma-Torch Treated Glass: Influence on Adhesion. <i>Journal of Adhesion Science and Technology</i> , 2010, 24, 1841-1854.	2.6	17
56	Atmospheric plasma torch treatment of polyethylene/boron composites: Effect on thermal stability. <i>Surface and Coatings Technology</i> , 2014, 239, 70-77.	4.8	16
57	Effects of Vancomycin, Cefazolin and Test Conditions on the Wear Behavior of Bone Cement. <i>Journal of Arthroplasty</i> , 2014, 29, 16-22.	3.1	15
58	Mechanical properties and fire-resistance of composites with marble particles. <i>Journal of Materials Research and Technology</i> , 2021, 12, 1403-1417.	5.8	15
59	Differential thermal analysis of the Al+20% (Fe+50%B) system. <i>Journal of Solid State Chemistry</i> , 2006, 179, 2787-2790.	2.9	14
60	Friction of PM ferritic stainless steels at temperatures up to 300°C. <i>Tribology International</i> , 2009, 42, 1199-1205.	5.9	13
61	Intensity of singular stress field (ISSF) variation as a function of the Young's modulus in single lap adhesive joints. <i>International Journal of Adhesion and Adhesives</i> , 2019, 95, 102418.	2.9	13
62	Influence of carbon and aluminium additions on the Fe+10% B (wt.) system. <i>Journal of Materials Processing Technology</i> , 2003, 143-144, 28-33.	6.3	12
63	Influence of Silanisation Parameters With $\hat{1}^3$ -Methacryloxypropyltrimethoxysilane on Durability of Aluminium/Acrylic Adhesive Joints. <i>Journal of Adhesion Science and Technology</i> , 2008, 22, 1461-1475.	2.6	12
64	Novel application of a thermoplastic composite with improved matrix-fiber interface. <i>Journal of Materials Research and Technology</i> , 2019, 8, 5536-5547.	5.8	12
65	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.	1.5	11
66	Experimental and numerical studies of polyamide 11 and 12 surfaces modified by atmospheric pressure plasma treatment. <i>Surfaces and Interfaces</i> , 2022, 32, 102154.	3.0	11
67	Environmentally Friendly Plasma Activation of Acrylonitrile+Butadiene+Styrene and Polydimethylsiloxane Surfaces to Improve Paint Adhesion. <i>Coatings</i> , 2018, 8, 428.	2.6	10
68	Effect of APPT Treatment on Mechanical Properties and Durability of Green Composites with Woven Flax. <i>Materials</i> , 2020, 13, 4762.	2.9	10
69	Coating cork particles with iron oxide: effect on magnetic properties. <i>Wood Science and Technology</i> , 2020, 54, 869-889.	3.2	9
70	Analytical solution to calculate the stress distribution in pin-and-collar samples bonded with anaerobic adhesives (following ISO 10123 standard). <i>International Journal of Adhesion and Adhesives</i> , 2008, 28, 405-410.	2.9	8
71	Structural and Mechanical Characterization of $\hat{1}^3$ -Methacryloxypropyltrimethoxysilane (MPS) on Zn-Electrocoated Steel. <i>Journal of Adhesion Science and Technology</i> , 2010, 24, 1885-1901.	2.6	8
72	Thermal characterization and diffusivity of two mono-component epoxies for transformer insulation. <i>International Journal of Adhesion and Adhesives</i> , 2020, 103, 102726.	2.9	8

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73	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
74	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
75	Kinetics of curing process in carbon/epoxy nano-composites. IOP Conference Series: Materials Science and Engineering, 2018, 369, 012011.	0.6	7
76	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.	3.0	6
77	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
78	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
79	Effect of atmospheric plasma torch on ballistic woven aramid. Textile Research Journal, 2017, 87, 2358-2367.	2.2	6
80	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
81	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
82	Influence of sample dimensions on single lap joints: effect of interactions between parameters. Journal of Adhesion, 2020, , 1-12.	3.0	5
83	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
84	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
85	Fracture toughness in Mode I (G_{IC}) for ductile adhesives. Journal of Physics: Conference Series, 2017, 843, 012008.	0.4	4
86	Advanced G-MPS-PMMA Bone Cements: Influence of Graphene Silanisation on Fatigue Performance, Thermal Properties and Biocompatibility. Nanomaterials, 2021, 11, 139.	4.1	4
87	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
88	Manufacturing of Porous Boron Steels Potentially Useful as Nuclear Materials. Journal of Nuclear Science and Technology, 2006, 43, 866-873.	1.3	3
89	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
90	Influence of thread geometry on the performance of retaining anaerobic adhesives. International Journal of Adhesion and Adhesives, 2011, 31, 429-433.	2.9	3

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91	Evaluation of Adhesion Improvement of a GFRP Treated with Atmospheric Plasma Torch. Journal of Adhesion, 2015, 91, 937-949.	3.0	3
92	One-Step Enameling and Sintering of Low-Carbon Steels. Metals, 2021, 11, 1007.	2.3	3
93	Influence of the sintering temperature on mechanical properties of the Al + 20 % Fe/B system. Revista De Metalurgia, 2006, 42, .	0.5	3
94	Mechanical Characterisation of Graded Single Lap Joints Using Magnetised Cork Microparticles. Advanced Structured Materials, 2020, , 153-174.	0.5	3
95	Sintering Stainless Steels with Boron Addition in Nitrogen Base Atmosphere. Materials Science Forum, 2007, 534-536, 733-736.	0.3	2
96	Micro Cork Particles as Adhesive Reinforcement Material for Brittle Resins. Advanced Structured Materials, 2017, , 399-418.	0.5	2
97	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
98	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
99	Ultra High Carbon Steels Obtained by Powder Metallurgy. Materials Science Forum, 2006, 530-531, 328-333.	0.3	1
100	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
101	Behaviour of Fluids in Porous Materials. Materials Science Forum, 0, 802, 303-308.	0.3	1
102	Characterization a polyurethane-based reactive hot melt adhesive for applications in materials. DYNA (Colombia), 2019, 86, 247-253.	0.4	1
103	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
104	Effect of Refractory Element Additions on the Properties of Sintered Stainless Steels. Materials Science Forum, 2003, 416-418, 381-387.	0.3	0
105	Influence of Forming on the Mechanical Properties of the Al + 50 % B₄C System. Materials Science Forum, 2006, 530-531, 304-309.	0.3	0
106	Study of the System Mo-Fe-B for Wear-Resistant Materials. Materials Science Forum, 2008, 591-593, 265-270.	0.3	0
107	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
108	Preparation of Cutting Inserts with Binder of UHCS. Materials Science Forum, 0, 660-661, 399-404.	0.3	0

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109	Effect of Sintering Temperature on the Formation of Intermetallics in Al-Fe-B Nanocomposite. Materials Science Forum, 0, 802, 130-134.	0.3	0
110	Polyolefinic Surface Activation by Low and Atmospheric Pressure Plasma Treatments. Materials Science Forum, 0, 805, 149-154.	0.3	0
111	Wear resistance of hydrophobic surfaces. Journal of Physics: Conference Series, 2017, 843, 012067.	0.4	0
112	Wear resistance of polypropylene-SiC composite. Journal of Physics: Conference Series, 2017, 843, 012066.	0.4	0
113	Infiltration behaviour of liquids over fibres or woven. IOP Conference Series: Materials Science and Engineering, 2018, 369, 012012.	0.6	0
114	Tribological and Mechanical Properties of Polyester Based Composites with SiC Particles. Lecture Notes in Mechanical Engineering, 2019, , 789-795.	0.4	0
115	Manufacturing of Porous Boron Steels Potentially Useful as Nuclear Materials. Journal of Nuclear Science and Technology, 2006, 43, 866-873.	1.3	0