

D Soares

List of Publications by Year in descending order

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70
papers

1,501
citations

331259

21
h-index

329751

37
g-index

70
all docs

70
docs citations

70
times ranked

1442
citing authors

#	ARTICLE	IF	CITATIONS
1	Solvent extraction applied to the recovery of heavy metals from galvanic sludge. Journal of Hazardous Materials, 2005, 120, 113-118.	6.5	141
2	Advantages of the centrifugal casting technique for the production of structural components with Al-Si alloys. Materials & Design, 2008, 29, 20-27.	5.1	107
3	Influence of the chemical composition on the machinability of brasses. Journal of Materials Processing Technology, 2005, 170, 441-447.	3.1	102
4	Leaching behaviour of a galvanic sludge in sulphuric acid and ammoniacal media. Journal of Hazardous Materials, 2005, 121, 195-202.	6.5	76
5	Influence of vibration on the solidification behaviour and tensile properties of an Al-18wt%Si alloy. Materials & Design, 2009, 30, 1575-1580.	5.1	76
6	Use of biomass fly ash for mitigation of alkali-silica reaction of cement mortars. Construction and Building Materials, 2012, 26, 687-693.	3.2	76
7	Thermodynamic assessment of the Bi-Sn-Zn System. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2007, 31, 438-448.	0.7	73
8	The experimental study of the Bi-Sn, Bi-Zn and Bi-Sn-Zn systems. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2007, 31, 468-478.	0.7	70
9	Microstructure, hardness, corrosion resistance and porcelain shear bond strength comparison between cast and hot pressed CoCrMo alloy for metal-ceramic dental restorations. Journal of the Mechanical Behavior of Biomedical Materials, 2012, 12, 83-92.	1.5	69
10	Recycling of aluminium swarf by direct incorporation in aluminium melts. Journal of Materials Processing Technology, 2009, 209, 5195-5203.	3.1	57
11	Shear bond strength comparison between conventional porcelain fused to metal and new functionally graded dental restorations after thermal-mechanical cycling. Journal of the Mechanical Behavior of Biomedical Materials, 2012, 13, 194-205.	1.5	52
12	Kinetics of thermal de-chlorination of PVC under pyrolytic conditions. Waste Management, 2012, 32, 847-851.	3.7	49
13	Compressive properties and energy absorption of aluminum foams with modified cellular geometry. Journal of Materials Processing Technology, 2014, 214, 571-577.	3.1	45
14	Hybrid composites - Metallic and ceramic reinforcements influence on mechanical and wear behavior. Composites Part B: Engineering, 2015, 74, 153-165.	5.9	41
15	Optimization of bond strength between gold alloy and porcelain through a composite interlayer obtained by powder metallurgy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 1415-1420.	2.6	33
16	Hot pressing effect on the shear bond strength of dental porcelain to CoCrMoSi alloy substrates with different surface treatments. Materials Science and Engineering C, 2013, 33, 557-563.	3.8	33
17	Shear bond strength of a hot pressed Au-Pd-Pt alloy-porcelain dental composite. Journal of the Mechanical Behavior of Biomedical Materials, 2011, 4, 1718-1726.	1.5	30
18	Experimental evaluation of the bond strength between a CoCrMo dental alloy and porcelain through a composite metal-ceramic graded transition interlayer. Journal of the Mechanical Behavior of Biomedical Materials, 2012, 13, 206-214.	1.5	29

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19	On assessment of processing variables in vertical centrifugal casting technique. International Journal of Cast Metals Research, 2009, 22, 382-389.	0.5	28
20	Influence of preoxidation cycle on the bond strength of CoCrMoSiâ€ porcelain dental composites. Materials Science and Engineering C, 2012, 32, 2374-2380.	3.8	25
21	Mechanical and thermal properties of hot pressed CoCrMoâ€ porcelain composites developed for prosthetic dentistry. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 30, 103-110.	1.5	23
22	Effect of grain and secondary phase morphologies in the mechanical and damping behavior of Al7075 alloys. Metals and Materials International, 2016, 22, 863-871.	1.8	22
23	Experimental study of impact energy absorption in aluminium square tubes with thermal triggers. Materials Research, 2012, 15, 323-332.	0.6	17
24	Sensitivity of different Alâ€ Si alloys to centrifugal casting effect. Materials & Design, 2010, 31, 2867-2877.	5.1	15
25	Effect of sintering stage in NiTi short-fibre-reinforced aluminiumâ€ silicon composites interface properties. Journal of Composite Materials, 2013, 47, 1625-1631.	1.2	14
26	Contribution to the knowledge of the Cuâ€ Snâ€ Zn system for compositions close to brass alloys. Journal of Alloys and Compounds, 2004, 379, 161-165.	2.8	13
27	Influence of Operating Conditions on the Thermal Behavior and Kinetics of Pine Wood Particles Using Thermogravimetric Analysis. Energies, 2020, 13, 2756.	1.6	13
28	Isopiestic determination of the coefficients of activity of magnesium in Alâ€ Cuâ€ Mg liquid alloys. Journal of Alloys and Compounds, 1995, 220, 179-181.	2.8	12
29	Properties assessment of nickel particulate-reinforced aluminum composites produced by hot pressing. Journal of Composite Materials, 2016, 50, 523-531.	1.2	12
30	Phase equilibria in the Snâ€ Znâ€ Ni system. International Journal of Materials Research, 2011, 102, 257-268.	0.1	11
31	Pressure and sintering temperature influence on the interface reaction of SiCp/410L stainless steel composites. Journal of Composite Materials, 2016, 50, 2005-2015.	1.2	11
32	Influence of Mineral Additions in the Inhibition of Delayed Ettringite Formation in Cement Based Materials â€ A Microstructural Characterization. Materials Science Forum, 2010, 636-637, 1272-1279.	0.3	10
33	Contact angle measurement of SAC 305 solder: numerical and experimental approach. Journal of Materials Science: Materials in Electronics, 2016, 27, 8941-8950.	1.1	10
34	Effect of hot pressing variables on the microstructure, relative density and hardness of sterling silver (Ag-Cu alloy) powder compacts. Materials Research, 2014, 17, 664-671.	0.6	9
35	Contribution to the knowledge of the Cu-Zn-Ti system for compositions close to brass alloys. Scandinavian Journal of Metallurgy, 2001, 30, 254-257.	0.3	8
36	A comparative study of fatigue behaviour of MAG and laser welded components using reliability analysis. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 606, 31-39.	2.6	7

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37	Study of phase equilibria in the Al-Cu-Zr system at the Al-rich part. Journal De Chimie Physique Et De Physico-Chimie Biologique, 1997, 94, 958-963.	0.2	6
38	Influence of solidification rates on a Directional Solidification process for the production of Functionally Graded Materials. International Journal of Materials and Product Technology, 2010, 39, 44.	0.1	5
39	On the hot pressing of coloured high-gold alloys powder compacts applied to the manufacturing of innovative jewellery items. Gold Bulletin, 2013, 46, 117-125.	1.1	5
40	Study of a Two Steps Process for the Valorization of PVC-Containing Wastes. Waste and Biomass Valorization, 2013, 4, 55-63.	1.8	5
41	Process Development for Manufacturing of Cellular Structures with Controlled Geometry and Properties. Materials Research, 2015, 18, 274-282.	0.6	5
42	Influence of Copper Layer Content in the Elastic and Damping Behavior of Glass-Fiber/Epoxy-Resin Composites. Applied Composite Materials, 2016, 23, 1219-1228.	1.3	5
43	Study of the effect of zirconium addition to the Al-rich alloys of the Al-Cu and Al-Cu-Mg systems. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1998, 102, 1181-1184.	0.9	4
44	On the ability of producing copper-silver functionally graded alloys by using an incremental melting and solidification process. Journal of Materials Processing Technology, 2009, 209, 5702-5710.	3.1	4
45	Effect of trace elements on the interface reactions between two lead-free solders and copper or nickel substrates. Journal of Mining and Metallurgy, Section B: Metallurgy, 2007, 43, 131-139.	0.3	4
46	Phase equilibria of the Al-Cu-Zn system for compositions close to brass alloys. Journal of Phase Equilibria and Diffusion, 2003, 24, 236-239.	0.3	3
47	Effect of the Bi Content on the Mechanical Properties of a Sn-Zn-Al-Bi Solder Alloy. Materials Science Forum, 2004, 455-456, 307-311.	0.3	3
48	On the ability of producing FGMs with an AlSi12 aluminium alloy by using centrifugal casting. International Journal of Materials and Product Technology, 2010, 39, 30.	0.1	3
49	Guidelines for establishment of correlations between mechanical properties and microstructure in Al-Si alloys. Materials Science and Technology, 2011, 27, 1109-1116.	0.8	3
50	Study of Devolatilization Rates of Pine Wood and Mass Loss of Wood Pellets. , 2017, , .		3
51	Structural Development in Hard Si-Based TiN Coatings as a Function of Temperature: A Comprehensive Study in Vacuum and in Air. Materials Science Forum, 2002, 383, 151-160.	0.3	2
52	Leaching of Brasses in Long-Term Direct Contact with Water. Materials Science Forum, 2004, 455-456, 839-843.	0.3	2
53	Thermal diffusivity of lead-free solders measured by photothermal beam deflection. Effect of the surrounding media. European Physical Journal Special Topics, 2005, 125, 265-268.	0.2	2
54	Incremental Melting and Solidification Process Metallurgical Characterization. AIP Conference Proceedings, 2008, , .	0.3	2

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55	Tarnish and corrosion evaluation of a blue gold-based alloy. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2009, 60, 355-359.	0.8	2
56	Solid State Transformations and Equilibrium Crystal Structures of an Au-Cu Alloy with Shape Memory Effect. <i>Materials Science Forum</i> , 0, 730-732, 859-864.	0.3	2
57	Kinetic Study of Thermal De-Chlorination of PVC-Containing Waste. <i>Materials Science Forum</i> , 2012, 730-732, 611-616.	0.3	2
58	Interactions of Cu-substrates with titanium-alloyed Sn-Zn solders. <i>Journal of Mining and Metallurgy, Section B: Metallurgy</i> , 2006, 42, 45-56.	0.3	2
59	Effect of Gravity/ Vibration/ Centrifugal Process on Mechanical Properties of an Al-Si Alloy. <i>Materials Science Forum</i> , 0, 587-588, 395-399.	0.3	1
60	Incremental Melting and Solidification Process/Mechanical Characterization of Functionally Graded Al-Si Alloys. <i>Materials Science Forum</i> , 2008, 587-588, 400-404.	0.3	1
61	Centrifugal Casting Features - Metallurgical Characterization of Aluminum Alloys. <i>AIP Conference Proceedings</i> , 2008, , .	0.3	1
62	Study of a purple gold-based alloy resistance to tarnishing in a sulphuric solution. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2009, 60, 450-454.	0.8	1
63	Evaluation of the Energetic Valorization Potential of Polymeric and Textile Industrial Wastes. <i>Materials Science Forum</i> , 0, 730-732, 592-597.	0.3	1
64	On assessment of processing variables on copper-tin functionally graded alloys produced by incremental melting and solidification process. <i>Materials Science and Technology</i> , 2012, 28, 748-753.	0.8	1
65	Study and Optimization of the Drying Process of a Ceramic Abrasive Composite. <i>International Journal of Applied Ceramic Technology</i> , 2016, 13, 308-315.	1.1	1
66	The Influence of Precipitation Hardening on the Damping Capacity in Al-Si-Mg Cast Components at Different Strain Amplitudes. <i>Metals</i> , 2022, 12, 804.	1.0	1
67	Experimental Phase Diagram of the Ternary Bi-Sn-Zn. <i>Materials Science Forum</i> , 2006, 514-516, 1682-1688.	0.3	0
68	Laser Assisted Procedure for Local Thermal Manipulation of Aluminium Alloys. <i>Advanced Materials Research</i> , 0, 160-162, 1341-1345.	0.3	0
69	Comparative study of tarnishing resistance of several coloured gold based alloys. <i>Corrosion Engineering Science and Technology</i> , 2011, 46, 271-276.	0.7	0
70	Quasi-Static Compressive Properties of Aluminium Foams with Functionally Graded Properties. <i>Advanced Materials Research</i> , 2014, 1016, 115-118.	0.3	0