

# D Soares

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8083292/publications.pdf>

Version: 2024-02-01

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	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
2	Influence of Operating Conditions on the Thermal Behavior and Kinetics of Pine Wood Particles Using Thermogravimetric Analysis. <i>Energies</i> , 2020, 13, 2756.	1.6	13
3	Study of Devolatilization Rates of Pine Wood and Mass Loss of Wood Pellets. , 2017, , .		3
4	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
5	Effect of grain and secondary phase morphologies in the mechanical and damping behavior of Al7075 alloys. <i>Metals and Materials International</i> , 2016, 22, 863-871.	1.8	22
6	Contact angle measurement of SAC 305 solder: numerical and experimental approach. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 8941-8950.	1.1	10
7	Influence of Copper Layer Content in the Elastic and Damping Behavior of Glass-Fiber/Epoxy-Resin Composites. <i>Applied Composite Materials</i> , 2016, 23, 1219-1228.	1.3	5
8	Pressure and sintering temperature influence on the interface reaction of SiCp/410L stainless steel composites. <i>Journal of Composite Materials</i> , 2016, 50, 2005-2015.	1.2	11
9	Properties assessment of nickel particulate-reinforced aluminum composites produced by hot pressing. <i>Journal of Composite Materials</i> , 2016, 50, 523-531.	1.2	12
10	Process Development for Manufacturing of Cellular Structures with Controlled Geometry and Properties. <i>Materials Research</i> , 2015, 18, 274-282.	0.6	5
11	Hybrid composites – Metallic and ceramic reinforcements influence on mechanical and wear behavior. <i>Composites Part B: Engineering</i> , 2015, 74, 153-165.	5.9	41
12	Effect of hot pressing variables on the microstructure, relative density and hardness of sterling silver (Ag-Cu alloy) powder compacts. <i>Materials Research</i> , 2014, 17, 664-671.	0.6	9
13	Quasi-Static Compressive Properties of Aluminium Foams with Functionally Graded Properties. <i>Advanced Materials Research</i> , 2014, 1016, 115-118.	0.3	0
14	Compressive properties and energy absorption of aluminum foams with modified cellular geometry. <i>Journal of Materials Processing Technology</i> , 2014, 214, 571-577.	3.1	45
15	Mechanical and thermal properties of hot pressed CoCrMo porcelain composites developed for prosthetic dentistry. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 30, 103-110.	1.5	23
16	A comparative study of fatigue behaviour of MAG and laser welded components using reliability analysis. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 606, 31-39.	2.6	7
17	On the hot pressing of coloured high-gold alloys powder compacts applied to the manufacturing of innovative jewellery items. <i>Gold Bulletin</i> , 2013, 46, 117-125.	1.1	5
18	Study of a Two Steps Process for the Valorization of PVC-Containing Wastes. <i>Waste and Biomass Valorization</i> , 2013, 4, 55-63.	1.8	5

#	ARTICLE	IF	CITATIONS
19	Hot pressing effect on the shear bond strength of dental porcelain to CoCrMoSi alloy substrates with different surface treatments. <i>Materials Science and Engineering C</i> , 2013, 33, 557-563.	3.8	33
20	Effect of sintering stage in NiTi short-fibre-reinforced aluminium-silicon composites interface properties. <i>Journal of Composite Materials</i> , 2013, 47, 1625-1631.	1.2	14
21	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
22	Kinetics of thermal de-chlorination of PVC under pyrolytic conditions. <i>Waste Management</i> , 2012, 32, 847-851.	3.7	49
23	Microstructure, hardness, corrosion resistance and porcelain shear bond strength comparison between cast and hot pressed CoCrMo alloy for metal-ceramic dental restorations. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012, 12, 83-92.	1.5	69
24	Experimental evaluation of the bond strength between a CoCrMo dental alloy and porcelain through a composite metal-ceramic graded transition interlayer. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012, 13, 206-214.	1.5	29
25	Shear bond strength comparison between conventional porcelain fused to metal and new functionally graded dental restorations after thermal-mechanical cycling. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012, 13, 194-205.	1.5	52
26	Influence of preoxidation cycle on the bond strength of CoCrMo-porcelain dental composites. <i>Materials Science and Engineering C</i> , 2012, 32, 2374-2380.	3.8	25
27	Kinetic Study of Thermal De-Chlorination of PVC-Containing Waste. <i>Materials Science Forum</i> , 2012, 730-732, 611-616.	0.3	2
28	Experimental study of impact energy absorption in aluminium square tubes with thermal triggers. <i>Materials Research</i> , 2012, 15, 323-332.	0.6	17
29	Use of biomass fly ash for mitigation of alkali-silica reaction of cement mortars. <i>Construction and Building Materials</i> , 2012, 26, 687-693.	3.2	76
30	Guidelines for establishment of correlations between mechanical properties and microstructure in Al-Si alloys. <i>Materials Science and Technology</i> , 2011, 27, 1109-1116.	0.8	3
31	Shear bond strength of a hot pressed Au-Pd-Pt alloy-porcelain dental composite. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2011, 4, 1718-1726.	1.5	30
32	Optimization of bond strength between gold alloy and porcelain through a composite interlayer obtained by powder metallurgy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 1415-1420.	2.6	33
33	Phase equilibria in the Sn-Zn-Ni system. <i>International Journal of Materials Research</i> , 2011, 102, 257-268.	0.1	11
34	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
35	On the ability of producing FGMs with an AlSi12 aluminium alloy by using centrifugal casting. <i>International Journal of Materials and Product Technology</i> , 2010, 39, 30.	0.1	3
36	Influence of solidification rates on a Directional Solidification process for the production of Functionally Graded Materials. <i>International Journal of Materials and Product Technology</i> , 2010, 39, 44.	0.1	5

#	ARTICLE	IF	CITATIONS
37	Sensitivity of different Al-Si alloys to centrifugal casting effect. <i>Materials &amp; Design</i> , 2010, 31, 2867-2877.	5.1	15
38	Influence of Mineral Additions in the Inhibition of Delayed Ettringite Formation in Cement Based Materials – A Microstructural Characterization. <i>Materials Science Forum</i> , 2010, 636-637, 1272-1279.	0.3	10
39	On assessment of processing variables in vertical centrifugal casting technique. <i>International Journal of Cast Metals Research</i> , 2009, 22, 382-389.	0.5	28
40	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
41	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
42	Influence of vibration on the solidification behaviour and tensile properties of an Al-18wt%Si alloy. <i>Materials &amp; Design</i> , 2009, 30, 1575-1580.	5.1	76
43	Recycling of aluminium swarf by direct incorporation in aluminium melts. <i>Journal of Materials Processing Technology</i> , 2009, 209, 5195-5203.	3.1	57
44	On the ability of producing copper-silver functionally graded alloys by using an incremental melting and solidification process. <i>Journal of Materials Processing Technology</i> , 2009, 209, 5702-5710.	3.1	4
45	Advantages of the centrifugal casting technique for the production of structural components with Al-Si alloys. <i>Materials &amp; Design</i> , 2008, 29, 20-27.	5.1	107
46	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
47	Centrifugal Casting Features – Metallurgical Characterization of Aluminum Alloys. <i>AIP Conference Proceedings</i> , 2008, , .	0.3	1
48	Incremental Melting and Solidification Process – Metallurgical Characterization. <i>AIP Conference Proceedings</i> , 2008, , .	0.3	2
49	The experimental study of the Bi-Sn, Bi-Zn and Bi-Sn-Zn systems. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2007, 31, 468-478.	0.7	70
50	Thermodynamic assessment of the Bi-Sn-Zn System. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2007, 31, 438-448.	0.7	73
51	Effect of trace elements on the interface reactions between two lead-free solders and copper or nickel substrates. <i>Journal of Mining and Metallurgy, Section B: Metallurgy</i> , 2007, 43, 131-139.	0.3	4
52	Experimental Phase Diagram of the Ternary Bi-Sn-Zn. <i>Materials Science Forum</i> , 2006, 514-516, 1682-1688.	0.3	0
53	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
54	Influence of the chemical composition on the machinability of brasses. <i>Journal of Materials Processing Technology</i> , 2005, 170, 441-447.	3.1	102

#	ARTICLE	IF	CITATIONS
55	Solvent extraction applied to the recovery of heavy metals from galvanic sludge. Journal of Hazardous Materials, 2005, 120, 113-118.	6.5	141
56	Leaching behaviour of a galvanic sludge in sulphuric acid and ammoniacal media. Journal of Hazardous Materials, 2005, 121, 195-202.	6.5	76
57	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
58	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
59	Leaching of Brasses in Long-Term Direct Contact with Water. Materials Science Forum, 2004, 455-456, 839-843.	0.3	2
60	Contribution to the knowledge of the Cu-Sn-Zn system for compositions close to brass alloys. Journal of Alloys and Compounds, 2004, 379, 161-165.	2.8	13
61	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
62	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
63	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
64	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
65	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
66	Isopiestic determination of the coefficients of activity of magnesium in Al-Cu-Mg liquid alloys. Journal of Alloys and Compounds, 1995, 220, 179-181.	2.8	12
67	Effect of Gravity/ Vibration/ Centrifugal Process on Mechanical Properties of an Al-Si Alloy. Materials Science Forum, 0, 587-588, 395-399.	0.3	1
68	Laser Assisted Procedure for Local Thermal Manipulation of Aluminium Alloys. Advanced Materials Research, 0, 160-162, 1341-1345.	0.3	0
69	Solid State Transformations and Equilibrium Crystal Structures of an Au-Cu Alloy with Shape Memory Effect. Materials Science Forum, 0, 730-732, 859-864.	0.3	2
70	Evaluation of the Energetic Valorization Potential of Polymeric and Textile Industrial Wastes. Materials Science Forum, 0, 730-732, 592-597.	0.3	1