Fernando Ap Castro

List of Publications by Year
in descending order

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50 papers	1,161 citations	430874 18 h-index	395702 33 g-index
51 all docs	51 docs citations	51 times ranked	1343 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.	12.4	141
2	Alternative Low-cost Adsorbent for Water and Wastewater Decontamination Derived from Eggshell Waste: An Overview. Waste and Biomass Valorization, 2011, 2, 157-167.	3.4	106
3	Influence of the chemical composition on the machinability of brasses. Journal of Materials Processing Technology, 2005, 170, 441-447.	6.3	102
4	Leaching behaviour of a galvanic sludge in sulphuric acid and ammoniacal media. Journal of Hazardous Materials, 2005, 121, 195-202.	12.4	76
5	Physical and chemical characterisation of metal finishing industrial wastes. Journal of Environmental Management, 2005, 75, 157-166.	7.8	69
6	Effects of different environmental conditions on the mechanical characteristics of a structural epoxy. Composites Part B: Engineering, 2016, 88, 55-63.	12.0	68
7	Effect of experimental variables on the inertization of galvanic sludges in clay-based ceramics. Journal of Hazardous Materials, 2004, 106, 139-147.	12.4	57
8	Handmade Clay Bricks: Chemical, Physical and Mechanical Properties. International Journal of Architectural Heritage, 2010, 4, 38-58.	3.1	57
9	Mechanical behaviour of Portland cement mortars with incorporation of Al-containing salt slags. Cement and Concrete Research, 2000, 30, 1131-1138.	11.0	50
10	Kinetics of thermal de-chlorination of PVC under pyrolytic conditions. Waste Management, 2012, 32, 847-851.	7.4	49
11	Ancient Clay Bricks: Manufacture and Properties. , 2010, , 29-48.		34
12	Experimental analysis of the carbonation and humidity diffusion processes in aerial lime mortar. Construction and Building Materials, 2017, 148, 38-48.	7.2	34
13	Using foundry slag of ferrous metals as fine aggregate for concrete. Resources, Conservation and Recycling, 2018, 138, 130-141.	10.8	31
14	Role of the mixing conditions and composition of galvanic sludges on the inertization process in clay-based ceramics. Journal of Hazardous Materials, 2004, 106, 169-176.	12.4	29
15	Sustainable alkaline activation of fly ash, aluminium anodising sludge and glass powder blends with a recycled alkaline cleaning solution. Construction and Building Materials, 2019, 204, 609-620.	7.2	28
16	Kinetic study of the immobilization of galvanic sludge in clay-based matrix. Journal of Hazardous Materials, 2005, 121, 69-78.	12.4	27
17	Compressed earth blocks stabilized with glass waste and fly ash activated with a recycled alkaline cleaning solution. Journal of Cleaner Production, 2021, 284, 124783.	9.3	25
18	Utilisation of pulp and paper industry wastes as raw materials in cement clinker production. International Journal of Materials Engineering Innovation, 2009, 1, 74.	0.5	19

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19	Modeling of chemical wear in ferrous alloys/ silicon nitride contacts during high speed cutting. Acta Materialia, 1998, 46, 2501-2507.	7.9	18
20	Evaluation of Pellets Produced with Undergrowth to be Used as Biofuel. Waste and Biomass Valorization, 2012, 3, 285-294.	3.4	16
21	Luiz Bandeira Bridge: Assessment of a Historical Reinforced Concrete (RC) Bridge. International Journal of Architectural Heritage, 2013, 7, 628-652.	3.1	15
22	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.	5.5	13
23	Isopiestic determination of the coefficients of activity of magnesium in Alî—¸Cuî—¸Mg liquid alloys. Journal of Alloys and Compounds, 1995, 220, 179-181.	5.5	12
24	Alkali-Activated Cements from Urban, Mining and Agro-Industrial Waste: State-of-the-art and Opportunities. Waste and Biomass Valorization, 2021, 12, 2665-2683.	3.4	12
25	Analytical hybrid effect prediction and evolution of the tensile response of unidirectional hybrid fibre-reinforced polymers composites for civil engineering applications. Journal of Composite Materials, 2020, 54, 3205-3228.	2.4	9
26	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
27	Cement mortars with ceramic molds shells and paraffin waxes wastes: Physical and mechanical behavior. Construction and Building Materials, 2022, 342, 127949.	7.2	7
28	Study of a Two Steps Process for the Valorization of PVC-Containing Wastes. Waste and Biomass Valorization, 2013, 4, 55-63.	3.4	5
29	Influence of service temperature on shear creep behaviour of a rigid low-density closed-cell PIR foam. Construction and Building Materials, 2019, 225, 1052-1063.	7.2	5
30	Alternative Feedstocks for Biodiesel Production. Materials Science Forum, 0, 730-732, 623-629.	0.3	4
31	Statistical Analysis of the Influence of Several Factors on Compressive Strength of Alkali Activated Fly Ash. Procedia Structural Integrity, 2017, 5, 1116-1122.	0.8	4
32	Unsaturated Response of Clayey Soils Stabilised with Alkaline Cements. Molecules, 2020, 25, 2533.	3.8	4
33	Iron and Aluminium Production Wastes as Exclusive Components of Alkali Activated Bindersâ€”Towards a Sustainable Alternative. Sustainability, 2021, 13, 9938.	3.2	4
34	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
35	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
36	Technical Aspects of Adsorption Process onto an Innovative Eggshell-Derived Low-Cost Adsorbent. Materials Science Forum, 2012, 730-732, 648-652.	0.3	3

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37	Experimental study of the Cu-Al-Sn phase equilibria, close to the copper zone. Journal of Mining and Metallurgy, Section B: Metallurgy, 2017, 53, 209-213.	0.8	3
38	Production of magnetite powder and recovery of non-ferrous metals from steel making residues. Developments in Mineral Processing, 2000, , C12a-15-C12a-19.	0.0	2
39	Leaching of Brasses in Long-Term Direct Contact with Water. Materials Science Forum, 2004, 455-456, 839-843.	0.3	2
40	Development of a Process for Copper Recovering from Galvanic Sludges. Materials Science Forum, 0, 730-732, 575-580.	0.3	2
41	Kinetic Study of Thermal De-Chlorination of PVC-Containing Waste. Materials Science Forum, 2012, 730-732, 611-616.	0.3	2
42	Evaluation of the Energetic Valorization Potential of Polymeric and Textile Industrial Wastes. Materials Science Forum, 0, 730-732, 592-597.	0.3	1
43	Statistical Study of Curing Conditions in Alkali Activation of Mine Tailings. Environmental Geotechnics, 2019, , 1-13.	2.3	1
44	Effect of the bismuth content on the interface reactions between copper substrate and Sn-Zn-Al-Bi lead-free solder. Revista De Metalurgia, 2005, 41, 208-212.	0.5	1
45	Chemical Modification of Pure Titanium Surfaces for Oral Implants. Implant Dentistry, 1999, 8, 86-89.	1.3	0
46	Effective mould release for RTM processes. Reinforced Plastics, 2006, 50, 30-31.	0.1	0
47	Experimental Phase Diagram of the Ternary Bi-Sn-Zn. Materials Science Forum, 2006, 514-516, 1682-1688.	0.3	0
48	The importance of surface conditioning in mould preparation. Reinforced Plastics, 2009, 53, 26-27.	0.1	0
49	Cations extraction of sandy-clay soils from cavado valley, portugal, using sodium salts solutions. Scientia Agricola, 2002, 59, 365-371.	1.2	0
50	Alkali-Activated Fly Ashes: Influence of Curing Conditions on Mechanical Strength. U Porto Journal of Engineering, 2017, 3, 57-67.	0.4	0