MarÃ-a Mirian Velay

List of Publications by Year
in descending order

19 papers	619 citations	516710 16 h-index	752698 20 g-index
20 all docs	20 docs citations	20 times ranked	563 citing authors

#	Article	IF	Citations
1	Sustainability evaluation of concretes with mixed recycled aggregate based on holistic approach: Technical, economic and environmental analysis. Waste Management, 2020, 104, 9-19.	7.4	76
2	Concrete with fine and coarse recycled aggregates: E-modulus evolution, compressive strength and non-destructive testing at early ages. Construction and Building Materials, 2018, 193, 323-331.	7.2	62
3	Anisotropy vs isotropy in living cell indentation with AFM. Scientific Reports, 2019, 9, 5757.	3.3	54
4	Concretes and mortars with waste paper industry: Biomass ash and dregs. Journal of Environmental Management, 2016, 181, 863-873.	7.8	53
5	Analytical and genetic programming model of compressive strength of eco concretes by NDT according to curing temperature. Construction and Building Materials, 2017, 144, 195-206.	7.2	49
6	Influence of temperature in the evolution of compressive strength and in its correlations with UPV in eco-concretes with recycled materials. Construction and Building Materials, 2016, 124, 276-286.	7.2	40
7	Curing temperature: A key factor that changes the effect of TiO2 nanoparticles on mechanical properties, calcium hydroxide formation and pore structure of cement mortars. Cement and Concrete Composites, 2019, 104, 103374.	10.7	37
8	Modification of CO2 capture and pore structure of hardened cement paste made with nano-TiO2 addition: Influence of water-to-cement ratio and CO2 exposure age. Construction and Building Materials, 2021, 275, 122131.	7.2	31
9	Architected material analogs for shape memory alloys. Matter, 2021, 4, 1990-2012.	10.0	29
10	Effect of fine and coarse recycled concrete aggregate on the mechanical behavior of precast reinforced beams: Comparison of FE simulations, theoretical, and experimental results on real scale beams. Construction and Building Materials, 2018, 191, 1109-1119.	7.2	28
11	Impact of nano-TiO2 addition on the reduction of net CO2 emissions of cement pastes after CO2 curing. Cement and Concrete Composites, 2021, 123, 104160.	10.7	28
12	Addition of biomass ash in concrete: Effects on E-Modulus, electrical conductivity at early ages and their correlation. Construction and Building Materials, 2017, 157, 1126-1132.	7.2	26
13	Energy dissipation in functionally two-dimensional phase transforming cellular materials. Scientific Reports, 2019, 9, 12581.	3.3	24
14	Nano-TiO2 effects on high temperature resistance of recycled mortars. Journal of Cleaner Production, 2020, 263, 121581.	9.3	22
15	Influence of water-to-binder ratio on the optimum percentage of nano-TiO2 addition in terms of compressive strength of mortars: A laboratory and virtual experimental study based on ANN model. Construction and Building Materials, 2021, 267, 120960.	7.2	19
16	TiO2 nanoparticles influence on the environmental performance of natural and recycled mortars: A life cycle assessment. Environmental Impact Assessment Review, 2020, 84, 106430.	9.2	18
17	Modification of self-cleaning activity on cement pastes containing nano-TiO2 due to CO2 curing. Construction and Building Materials, 2022, 330, 127185.	7.2	9
18	Effect of recycled concrete aggregate (RCA) on mortar's thermal conductivity susceptibility to variations of moisture content and ambient temperature. Journal of Building Engineering, 2021, 43, 103208.	3.4	7

#	Article	IF	Citations
19	Thin-film model of droplet durotaxis. European Physical Journal: Special Topics, 2020, 229, 265-273.	2.6	6