Rui Vasco Silva

List of Publications by Citations

63 papers	2,719 citations	22 h-index	52 g-index
74 ext. papers	3,295 ext. citations	5.7 avg, IF	5.97 L-index

#	Paper	IF	Citations
63	Properties and composition of recycled aggregates from construction and demolition waste suitable for concrete production. *Construction and Building Materials*, **2014**, 65, 201-217	6.7	550
62	Establishing a relationship between modulus of elasticity and compressive strength of recycled aggregate concrete. *Journal of Cleaner Production*, **2016**, 112, 2171-2186	10.3	190
61	Carbonation behaviour of recycled aggregate concrete. *Cement and Concrete Composites*, **2015**, 62, 22-32	8.6	181
60	The influence of the use of recycled aggregates on the compressive strength of concrete: a review. *European Journal of Environmental and Civil Engineering*, **2015**, 19, 825-849	1.5	163
59	Use of recycled aggregates from construction and demolition waste in geotechnical applications: A literature review. *Waste Management*, **2016**, 49, 131-145	8.6	149
58	Tensile strength behaviour of recycled aggregate concrete. *Construction and Building Materials*, **2015**, 83, 108-118	6.7	121
57	Use of recycled aggregates arising from construction and demolition waste in new construction applications. *Journal of Cleaner Production*, **2019**, 236, 117629	10.3	119
56	Availability and processing of recycled aggregates within the construction and demolition supply chain: A review. *Journal of Cleaner Production*, **2017**, 143, 598-614	10.3	118
55	Durability-related performance of concrete containing fine recycled aggregates from crushed bricks and sanitary ware. *Materials and Design*, **2016**, 90, 767-776	8.1	102
54	Influence of curing conditions on the durability-related performance of concrete made with selected plastic waste aggregates. *Cement and Concrete Composites*, **2013**, 35, 23-31	8.6	100
53	Prediction of the shrinkage behavior of recycled aggregate concrete: A review. *Construction and Building Materials*, **2015**, 77, 327-339	6.7	94
52	Fresh-state performance of recycled aggregate concrete: A review. *Construction and Building Materials*, **2018**, 178, 19-31	6.7	90
51	Performance of cementitious renderings and masonry mortars containing recycled aggregates from construction and demolition wastes. *Construction and Building Materials*, **2016**, 105, 400-415	6.7	84
50	Environmental impacts of the use of bottom ashes from municipal solid waste incineration: A review. *Resources, Conservation and Recycling*, **2019**, 140, 23-35	11.9	71
49	Use of municipal solid waste incineration bottom ashes in alkali-activated materials, ceramics and granular applications: A review. *Waste Management*, **2017**, 68, 207-220	8.6	68
48	The role of glass waste in the production of ceramic-based products and other applications: A review. *Journal of Cleaner Production*, **2017**, 167, 346-364	10.3	67
47	Comparative analysis of existing prediction models on the creep behaviour of recycled aggregate concrete. *Engineering Structures*, **2015**, 100, 31-42	4.7	60

46	Mechanical and durability performance of mortars with fine recycled concrete aggregates and reactive magnesium oxide as partial cement replacement. *Cement and Concrete Composites*, **2020**, 105, 103420	8.6	50
45	Prediction of Chloride Ion Penetration of Recycled Aggregate Concrete. *Materials Research*, **2015**, 18, 427-440	1.5	48
44	Design of reinforced recycled aggregate concrete elements in conformity with Eurocode 2. *Construction and Building Materials*, **2016**, 105, 144-156	6.7	40
43	Recycled concrete with coarse recycled aggregate. An overview and analysis. *Materiales De Construccion*, **2018**, 68, 151	1.8	37
42	Current status on the use of recycled aggregates in concrete: Where do we go from here?. *RILEM Technical Letters*,1, 1		34
41	Statistical Modeling of Carbonation in Concrete Incorporating Recycled Aggregates. *Journal of Materials in Civil Engineering*, **2016**, 28, 04015082	3	21
40	Statistical modelling of the resistance to chloride penetration in concrete with recycled aggregates. *Construction and Building Materials*, **2018**, 182, 550-560	6.7	21
39	Hydration of Reactive MgO as Partial Cement Replacement and Its Influence on the Macroperformance of Cementitious Mortars. *Advances in Materials Science and Engineering*, **2019**, 2019, 1-12	1.5	18
38	Incorporation of Alkali-Activated Municipal Solid Waste Incinerator Bottom Ash in Mortar and Concrete: A Critical Review. *Materials*, **2020**, 13,	3.5	10
37	Assessing the sustainability potential of alkali-activated concrete from electric arc furnace slag using the ECO2 framework. *Construction and Building Materials*, **2021**, 281, 122559	6.7	10
36	Mortars with alkali-activated municipal solid waste incinerator bottom ash and fine recycled aggregates. *Journal of Cleaner Production*, **2021**, 289, 125707	10.3	10
35	Reinforced recycled aggregate concrete slabs: Structural design based on Eurocode 2. *Engineering Structures*, **2020**, 204, 110047	4.7	8
34	Use of Waste Materials in the Production of Concrete. *Key Engineering Materials*, **2014**, 634, 85-96	0.4	7
33	Alkali activation of bottom ash from municipal solid waste incineration: Optimization of NaOH- and Na 2SiO3-based activators. *Journal of Cleaner Production*, **2021**, 291, 125930	10.3	7
32	Ternary Mixes of Self-Compacting Concrete with Fly Ash and Municipal Solid Waste Incinerator Bottom Ash. *Applied Sciences (Switzerland)*, **2021**, 11, 107	2.6	6
31	Recycled Aggregate Concrete: Durability Properties **2019**, 365-418		5
30	Use of Recycled Aggregates in Road Pavement Applications **2019**, 451-494		5
29	Construction and demolition waste **2019**, 1-22		5

28	Legal regulations of recycled aggregate concrete in buildings and roads **2019**, 509-526		5
27	Use of Recycled Aggregates in Mortar **2019**, 143-179		4
26	Properties and Composition of Recycled Aggregates **2019**, 89-141		4
25	Municipal Incinerated Bottom Ash Characteristics **2018**, 91-138		4
24	Real-scale applications of recycled aggregate concrete **2019**, 573-589		4
23	Availability of Recycled Aggregates **2019**, 35-56		2
22	Deformation of Concrete Containing Recycled Concrete Aggregate **2019**, 283-363		2
21	Use of Recycled Aggregates in Geotechnical Applications **2019**, 419-450		2
20	Potential for the Recycled Aggregate Market **2019**, 585-601		2
19	Municipal Solid Waste Composition, Incineration, Processing and Management of Bottom Ashes **2018**, 31-90		2
18	Performance Enhancement of Alkali-Activated Electric Arc Furnace Slag Mortars through an Accelerated CO2 Curing Process. *Applied Sciences (Switzerland)*, **2022**, 12, 1662	2.6	2
17	Plastic wastes **2018**, 199-227		2
16	Processing of Recycled Aggregates **2019**, 57-88		1
15	Fresh Concrete Properties **2019**, 181-218		1
14	Environmental Impact, Case Studies and Standards and Specifications **2019**, 495-583		1
13	Geotechnics and Road Pavements **2018**, 197-237		1
12	Binary Mixes of Self-Compacting Concrete with Municipal Solid Waste Incinerator Bottom Ash. *Applied Sciences (Switzerland)*, **2021**, 11, 6396	2.6	1
11	Normative review and necessary advances to promote the use of recycled aggregates and by-products in cement-based materials **2021**, 735-776		1

List of Publications

10	Alkali-Activated Materials with Pre-Treated Municipal Solid Waste Incinerator Bottom Ash. *Applied Sciences (Switzerland)*, **2022**, 12, 3535	2.6	1
9	Label-Free Iron Oxide Nanoparticles as Multimodal Contrast Agents in Cells Using Multi-Photon and Magnetic Resonance Imaging.. *International Journal of Nanomedicine*, **2021**, 16, 8375-8389	7.3	1
8	Strength Development of Concrete **2019**, 219-282		0
7	Alternative Applications **2018**, 239-276		0
6	Case Studies and Standards **2018**, 331-390		0
5	Green Materials for Concrete Production **2015**, 165-195		
4	Helping structural designers to use recycled aggregate concrete **2019**, 527-540		
3	Visualization and characterization of metallo-aggregates using multi-photon microscopy.. *RSC Advances*, **2020**, 11, 657-661	3.7	
2	Environmental Assessment **2018**, 277-330		
1	Concrete-Related Applications **2018**, 139-195		