Mike Otieno

List of Publications by Year in descending order

35 papers	927 citations	687363 13 h-index	501196 28 g-index
36 all docs	36 docs citations	36 times ranked	679 citing authors

#	Article	IF	Citations
1	Chloride-induced corrosion of steel in cracked concrete â€“ Part I: Experimental studies under accelerated and natural marine environments. Cement and Concrete Research, 2016, 79, 373-385.	11.0	207
2	Corrosion in cracked and uncracked concrete â€“ influence of crack width, concrete quality and crack reopening. Magazine of Concrete Research, 2010, 62, 393-404.	2.0	178
3	Modelling corrosion propagation in reinforced concrete structures â€“ A critical review. Cement and Concrete Composites, 2011, 33, 240-245.	10.7	84
4	Chloride-induced corrosion of steel in cracked concreteâ€”Part II: Corrosion rate prediction models. Cement and Concrete Research, 2016, 79, 386-394.	11.0	67
5	Effect of chemical composition of slag on chloride penetration resistance of concrete. Cement and Concrete Composites, 2014, 46, 56-64.	10.7	64
6	Propagation of steel corrosion in concrete: Experimental and numerical investigations. Cement and Concrete Composites, 2016, 70, 171-182.	10.7	63
7	Experimental investigations on the influence of cover depth and concrete quality on time to cover cracking due to carbonation-induced corrosion of steel in RC structures in an urban, inland environment. Construction and Building Materials, 2019, 198, 172-181.	7.2	52
8	Experimental investigations on the effect of concrete quality, exposure conditions and duration of initial moist curing on carbonation rate in concretes exposed to urban, inland environment. Construction and Building Materials, 2020, 246, 118443.	7.2	32
9	Prediction of corrosion rate in reinforced concrete structures â€“ a critical review and preliminary results. Materials and Corrosion - Werkstoffe Und Korrosion, 2012, 63, 777-790.	1.5	27
10	Towards incorporating the influence of cover cracking on steel corrosion in RC design codes: the concept of performance-based crack width limits. Materials and Structures/Materiaux Et Constructions, 2012, 45, 1805-1816.	3.1	24
11	Acceleration of steel corrosion in concrete by cyclic wetting and drying: effect of drying duration and concrete quality. Materials and Structures/Materiaux Et Constructions, 2019, 52, 1.	3.1	23
12	Prediction of Corrosion Rate in RC Structures - A Critical Review. , 2011, , 15-37.		21
13	Resistivity-based chloride-induced corrosion rate prediction models and hypothetical framework for interpretation of resistivity measurements in cracked RC structures. Materials and Structures/Materiaux Et Constructions, 2016, 49, 2349-2366.	3.1	16
14	A review of Waste Tyre Rubber as an Alternative Concrete Consituent Material. MATEC Web of Conferences, 2018, 199, 11003.	0.2	16
15	Sensitivity of chloride-induced corrosion rate of steel in concrete to cover depth, crack width and concrete quality. Materials and Structures/Materiaux Et Constructions, 2017, 50, 1.	3.1	7
16	Chloride conductivity testing of concrete - past and recent developments. Journal of the South African Institution of Civil Engineering, 2015, 57, 55-64.	0.3	7
17	Principles of the Performance-Based Approach for Concrete Durability. RILEM State-of-the-Art Reports, 2016, , 107-131.	0.7	5
18	Utilisation of supplementary cementitious materials from agricultural wastes: a review. Proceedings of Institution of Civil Engineers: Construction Materials, 2022, 175, 65-71.	1.1	5

#	Article	IF	Citations
19	Utilization of kimberlite tailings as aggregates in concrete - strength and selected durability properties. MRS Advances, 2020, 5, 1259-1266.	0.9	5
20	Creep deformation characteristics of rubberised structural concrete. Construction and Building Materials, 2021, 312, 125418.	7.2	5
21	Service life and durability design of RC structures: general considerations and selected Southern African perspectives and experiences. Sustainable and Resilient Infrastructure, 2023, 8, 145-157.	2.8	3
22	Partial replacement of conventional fine aggregate with crumb tyre rubber in structural concrete â€“ effect of particle size on compressive strength and time dependent deformations. MATEC Web of Conferences, 2018, 199, 11002.	0.2	2
23	Corrosion of steel in concrete due to one and two dimensional chloride ingress. MATEC Web of Conferences, 2018, 199, 04004.	0.2	2
24	Coal gasification and composite ashes as partial replacements for Portland cement in concrete â€” strength and selected durability performance. MRS Advances, 2020, 5, 2807-2816.	0.9	2
25	Oxygen Availability and Corrosion Propagation in RC Structures in the Marine Environmentâ€”Inferences from Field and Laboratory Studies. Corrosion and Materials Degradation, 2022, 3, 363-375.	2.4	2
26	Marine exposure environments and marine exposure sites. , 2016, , 171-196.		1
27	Sensitivity of the rapid chloride conductivity index test to concrete quality and changes in various test parameters. Cement and Concrete Composites, 2018, 86, 110-116.	10.7	1
28	Responsibilities. RILEM State-of-the-Art Reports, 2016, , 179-196.	0.7	1
29	Corrosion propagation in RC structuresâ€”state of the art review and way forward. , 2010, , 461-469.		1
30	Soft water attack on concrete tunnel linings in the Ingula pumped storage hydro-power scheme: Assessment of concrete resistance and protection. Journal of the South African Institution of Civil Engineering, 2017, 59, 57-67.	0.3	1
31	Sustainable use of supplementary cementitious materials from agricultural wastes - a review. , 2019, , .		1
32	Effect of Carbonate Minerals and Calcination of Carbonatites and Kamafugites on Their Pozzolanic Performance and Early Age Concrete Properties. RILEM Bookseries, 2018, , 86-97.	0.4	0
33	Coal gasification ash and Weathered fly ash, as partial replacement of Portland cement â€“ effect on selected durability properties of concrete. MATEC Web of Conferences, 2018, 199, 02021.	0.2	0
34	Strength and ductility performance of corroded steel bars in concrete exposed to 2D chloride ingress. MRS Advances, 2020, 5, 2817-2825.	0.9	0
35	Curing of slag concretes at low temperatures: effect on selected durability properties. MRS Advances, 2020, 5, 1267-1275.	0.9	0