

Ignasi Fernandez

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

885
citations

567281

15
h-index

580821

25
g-index

27
all docs

27
docs citations

27
times ranked

592
citing authors

#	ARTICLE	IF	CITATIONS
1	Monitoring of new and existing stainless-steel reinforced concrete structures by clad distributed optical fibre sensing. <i>Structural Health Monitoring</i> , 2023, 22, 257-275.	7.5	6
2	The interplay between corrosion and cracks in reinforced concrete beams with non-uniform reinforcement corrosion. <i>Materials and Structures/Materiaux Et Constructions</i> , 2022, 55, 1.	3.1	13
3	Crack monitoring in reinforced concrete beams by distributed optical fiber sensors. <i>Structure and Infrastructure Engineering</i> , 2021, 17, 124-139.	3.7	89
4	Bond of naturally corroded, plain reinforcing bars in concrete. <i>Structure and Infrastructure Engineering</i> , 2021, 17, 792-808.	3.7	9
5	Assessment and visualization of performance indicators of reinforced concrete beams by distributed optical fibre sensing. <i>Structural Health Monitoring</i> , 2021, 20, 3309-3326.	7.5	35
6	A closer look at corrosion of steel reinforcement bars in concrete using 3D neutron and X-ray computed tomography. <i>Cement and Concrete Research</i> , 2021, 144, 106439.	11.0	39
7	Characterization of concrete shrinkage induced strains in internally-restrained RC structures by distributed optical fiber sensing. <i>Cement and Concrete Composites</i> , 2021, 120, 104058.	10.7	23
8	Numerical assessment of bond-slip relationships for naturally corroded plain reinforcement bars in concrete beams. <i>Engineering Structures</i> , 2021, 239, 112309.	5.3	13
9	Long-Term Performance of Distributed Optical Fiber Sensors Embedded in Reinforced Concrete Beams under Sustained Deflection and Cyclic Loading. <i>Sensors</i> , 2021, 21, 6338.	3.8	15
10	A fiber optics enriched Digital Twin for assessment of reinforced concrete structures. , 2021, , .		1
11	Assessment of the mechanical behaviour of reinforcement bars with localised pitting corrosion by Digital Image Correlation. <i>Engineering Structures</i> , 2020, 219, 110936.	5.3	42
12	Anchorage of naturally corroded, plain reinforcement bars in flexural members. <i>Materials and Structures/Materiaux Et Constructions</i> , 2020, 53, 1.	3.1	6
13	Mechanical Properties of 30-Year-Old Naturally Corroded Steel Reinforcing Bars. <i>International Journal of Concrete Structures and Materials</i> , 2019, 13, .	3.2	35
14	An old bridge transformed into a new one: possible, recommendable?. , 2019, , .		0
15	Ultimate Capacity of Corroded Statically Indeterminate Reinforced Concrete Members. <i>International Journal of Concrete Structures and Materials</i> , 2018, 12, .	3.2	15
16	Evaluation of corrosion level of naturally corroded bars using different cleaning methods, computed tomography, and 3D optical scanning. <i>Materials and Structures/Materiaux Et Constructions</i> , 2018, 51, 1.	3.1	26
17	Corrosion-induced cracking and bond behaviour of corroded reinforcement bars in SFRC. <i>Composites Part B: Engineering</i> , 2017, 113, 123-137.	12.0	60
18	Investigating correlations between crack width, corrosion level and anchorage capacity. <i>Structure and Infrastructure Engineering</i> , 2017, 13, 1294-1307.	3.7	42

#	ARTICLE	IF	CITATIONS
19	Four levels to assess anchorage capacity of corroded reinforcement in concrete. Engineering Structures, 2017, 147, 434-447.	5.3	12
20	Structural behaviour of prestressed concrete sleepers produced with high performance recycled aggregate concrete. Materials and Structures/Materiaux Et Constructions, 2017, 50, 1.	3.1	13
21	Ultimate bond strength assessment of uncorroded and corroded reinforced recycled aggregate concretes. Construction and Building Materials, 2016, 111, 543-555.	7.2	38
22	Mechanical model to evaluate steel reinforcement corrosion effects on f_{yk} and fatigue curves. Experimental calibration and validation. Engineering Structures, 2016, 118, 320-333.	5.3	58
23	3D FEM model development from 3D optical measurement technique applied to corroded steel bars. Construction and Building Materials, 2016, 124, 519-532.	7.2	48
24	Structural effects of steel reinforcement corrosion on statically indeterminate reinforced concrete members. Materials and Structures/Materiaux Et Constructions, 2016, 49, 4959-4973.	3.1	40
25	Corrosion effects on the mechanical properties of reinforcing steel bars. Fatigue and f_{yk} behavior. Construction and Building Materials, 2015, 101, 772-783.	7.2	146
26	Pull-out of textile reinforcement in concrete. Construction and Building Materials, 2014, 71, 63-71.	7.2	60