

# 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	Corrosion effects on the mechanical properties of reinforcing steel bars. Fatigue and $\sigma$ - $\epsilon$ behavior. Construction and Building Materials, 2015, 101, 772-783.	7.2	146
2	Crack monitoring in reinforced concrete beams by distributed optical fiber sensors. Structure and Infrastructure Engineering, 2021, 17, 124-139.	3.7	89
3	Pull-out of textile reinforcement in concrete. Construction and Building Materials, 2014, 71, 63-71.	7.2	60
4	Corrosion-induced cracking and bond behaviour of corroded reinforcement bars in SFRC. Composites Part B: Engineering, 2017, 113, 123-137.	12.0	60
5	Mechanical model to evaluate steel reinforcement corrosion effects on $\sigma$ - $\epsilon$ and fatigue curves. Experimental calibration and validation. Engineering Structures, 2016, 118, 320-333.	5.3	58
6	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
7	Investigating correlations between crack width, corrosion level and anchorage capacity. Structure and Infrastructure Engineering, 2017, 13, 1294-1307.	3.7	42
8	Assessment of the mechanical behaviour of reinforcement bars with localised pitting corrosion by Digital Image Correlation. Engineering Structures, 2020, 219, 110936.	5.3	42
9	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
10	A closer look at corrosion of steel reinforcement bars in concrete using 3D neutron and X-ray computed tomography. Cement and Concrete Research, 2021, 144, 106439.	11.0	39
11	Ultimate bond strength assessment of uncorroded and corroded reinforced recycled aggregate concretes. Construction and Building Materials, 2016, 111, 543-555.	7.2	38
12	Mechanical Properties of 30-Year-Old Naturally Corroded Steel Reinforcing Bars. International Journal of Concrete Structures and Materials, 2019, 13, .	3.2	35
13	Assessment and visualization of performance indicators of reinforced concrete beams by distributed optical fibre sensing. Structural Health Monitoring, 2021, 20, 3309-3326.	7.5	35
14	Evaluation of corrosion level of naturally corroded bars using different cleaning methods, computed tomography, and 3D optical scanning. Materials and Structures/Materiaux Et Constructions, 2018, 51, 1.	3.1	26
15	Characterization of concrete shrinkage induced strains in internally-restrained RC structures by distributed optical fiber sensing. Cement and Concrete Composites, 2021, 120, 104058.	10.7	23
16	Ultimate Capacity of Corroded Statically Indeterminate Reinforced Concrete Members. International Journal of Concrete Structures and Materials, 2018, 12, .	3.2	15
17	Long-Term Performance of Distributed Optical Fiber Sensors Embedded in Reinforced Concrete Beams under Sustained Deflection and Cyclic Loading. Sensors, 2021, 21, 6338.	3.8	15
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Four levels to assess anchorage capacity of corroded reinforcement in concrete. <i>Engineering Structures</i> , 2017, 147, 434-447.	5.3	12
22	Bond of naturally corroded, plain reinforcing bars in concrete. <i>Structure and Infrastructure Engineering</i> , 2021, 17, 792-808.	3.7	9
23	Anchorage of naturally corroded, plain reinforcement bars in flexural members. <i>Materials and Structures/Materiaux Et Constructions</i> , 2020, 53, 1.	3.1	6
24	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
25	A fiber optics enriched Digital Twin for assessment of reinforced concrete structures. , 2021, , .		1
26	An old bridge transformed into a new one: possible, recommendable?. , 2019, , .		0