Jaime Mata-FalcÃ³n

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/1773606/publications.pdf Version: 2024-02-01



ΙΔΙΜΕ ΜΑΤΑ-ΕΛΙ Ο Α3Ν

#	Article	IF	CITATIONS
1	Refined extraction of crack characteristics in large-scale concrete experiments based on digital image correlation. Engineering Structures, 2022, 251, 113486.	5.3	39
2	Structural Design and Testing of Digitally Manufactured Concrete Structures. RILEM State-of-the-Art Reports, 2022, , 187-222.	0.7	3
3	Application of Distributed Fibre Optical Sensing in Reinforced Concrete Elements Subjected to Monotonic and Cyclic Loading. Sensors, 2022, 22, 2023.	3.8	19
4	Effective reinforcement ratio of <scp>RC</scp> beams: Validation of modelling assumptions with highâ€resolution strain data. Structural Concrete, 2022, 23, 1353-1369.	3.1	8
5	Towards efficient concrete structures with ultra-thin 3D printed formwork: exploring reinforcement strategies and optimisation. Virtual and Physical Prototyping, 2022, 17, 599-616.	10.4	8
6	Analysis of the tension chord in the flexural response of concrete elements: Methodology and application to weft-knitted textile reinforcement. Engineering Structures, 2022, 261, 114270.	5.3	7
7	Digitally Fabricated Keyed Concrete Connections. RILEM Bookseries, 2022, , 241-246.	0.4	1
8	Mesh Mould Prefabrication. RILEM Bookseries, 2022, , 31-36.	0.4	3
9	Pre-installed Reinforcement for 3D Concrete Printing. RILEM Bookseries, 2022, , 430-435.	0.4	2
10	Influence of short glass fibres and spatial features on the mechanical behaviour of weft-knitted textile reinforced concrete elements in bending. Construction and Building Materials, 2022, 344, 128167.	7.2	7
11	Inter-laboratory study on the influence of 3D concrete printing set-ups on the bond behaviour of various reinforcements. Cement and Concrete Composites, 2022, 133, 104660.	10.7	13
12	Structural behaviour of 3D printed concrete beams with various reinforcement strategies. Engineering Structures, 2021, 240, 112380.	5.3	68
13	Structural design possibilities of reinforced concrete beams using eggshell. , 2021, , .		2
14	Aligned Interlayer Fibre Reinforcement for Digital Fabrication with Concrete. RILEM Bookseries, 2021, , 87-98.	0.4	6
15	Load-deformation behaviour of weft-knitted textile reinforced concrete in uniaxial tension. Materials and Structures/Materiaux Et Constructions, 2021, 54, 210.	3.1	15
16	Fundamental Studies on the Use of Distributed Fibre Optical Sensing on Concrete and Reinforcing Bars. Sensors, 2021, 21, 7643.	3.8	27
17	Cracked Membrane Model with Fixed, Interlocked Cracks: Numerical Implementation and Validation. Journal of Structural Engineering, 2020, 146,	3.4	7
18	Combined application of distributed fibre optical and digital image correlation measurements to structural concrete experiments. Engineering Structures, 2020, 225, 111309.	5.3	58

JAIME MATA-FALCÃ³N

#	Article	IF	CITATIONS
19	Structural stay-in-place formwork for robotic in situ fabrication of non-standard concrete structures: A real scale architectural demonstrator. Automation in Construction, 2020, 115, 103197.	9.8	63
20	Opportunities and challenges for structural engineering of digitally fabricated concrete. Cement and Concrete Research, 2020, 133, 106079.	11.0	117
21	Eggshell: Ultra-Thin Three-Dimensional Printed Formwork for Concrete Structures. 3D Printing and Additive Manufacturing, 2020, 7, 48-59.	2.9	54
22	Design and Fabrication of a Non-standard, Structural Concrete Column Using Eggshell: Ultra-Thin, 3D Printed Formwork. RILEM Bookseries, 2020, , 1104-1115.	0.4	8
23	Aligned Interlayer Fibre Reinforcement and Post-tensioning as a Reinforcement Strategy for Digital Fabrication. RILEM Bookseries, 2020, , 622-631.	0.4	9
24	From Smart Dynamic Casting to a growing family of Digital Casting Systems. Cement and Concrete Research, 2020, 134, 106071.	11.0	62
25	Automated crack detection and measurement based on digital image correlation. Construction and Building Materials, 2020, 256, 119383.	7.2	133
26	Potential Approaches for Reinforcing Complex Concrete Structures with Integrated Flexible Formwork. RILEM Bookseries, 2020, , 669-679.	0.4	7
27	Proposal and experimental validation of simplified strut-and-tie models on dapped-end beams. Engineering Structures, 2019, 183, 594-609.	5.3	34
28	Exploiting the Potential of Digital Fabrication for Sustainable and Economic Concrete Structures. RILEM Bookseries, 2019, , 157-166.	0.4	20
29	Compression Field Analysis of Fiber-Reinforced Concrete Based on Cracked Membrane Model. ACI Structural Journal, 2019, 116, .	0.2	11
30	Rethinking reinforcement for digital fabrication with concrete. Cement and Concrete Research, 2018, 112, 111-121.	11.0	257
31	Future directions for research on shear in structural concrete. Fibre-reinforced Concrete: From Design To Structural Applications, 2018, , 323-336.	0.0	7