

Freek Bos

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

38
papers

2,263
citations

19
h-index

40
g-index

40
ext. papers

3,146
ext. citations

6.1
avg. IF

5.97
L-index

#	Paper	IF	Citations
38	Structural Design and Testing of Digitally Manufactured Concrete Structures. <i>RILEM State-of-the-Art Reports</i> , 2022 , 187-222	1.3	1
37	Digital Fabrication with Cement-Based Materials: Underlying Physics. <i>RILEM State-of-the-Art Reports</i> , 2022 , 49-98	1.3	2
36	Digital Fabrication with Cement-Based Materials: Process Classification and Case Studies. <i>RILEM State-of-the-Art Reports</i> , 2022 , 11-48	1.3	1
35	Design and analyses of printable strain hardening cementitious composites with optimized particle size distribution. <i>Construction and Building Materials</i> , 2022 , 324, 126411	6.7	3
34	The realities of additively manufactured concrete structures in practice. <i>Cement and Concrete Research</i> , 2022 , 156, 106746	10.3	14
33	A roadmap for quality control of hardening and hardened printed concrete. <i>Cement and Concrete Research</i> , 2022 , 157, 106800	10.3	3
32	Consistency of Mechanical Properties of 3D Printed Strain Hardening Cementitious Composites Within One Printing System. <i>RILEM Bookseries</i> , 2022 , 145-151	0.5	
31	Robotically Placed Reinforcement Using the Automated Screwing Device [An Application Perspective for 3D Concrete Printing. <i>RILEM Bookseries</i> , 2022 , 417-423	0.5	0
30	Integrating reinforcement in digital fabrication with concrete: A review and classification framework. <i>Cement and Concrete Composites</i> , 2021 , 119, 103964	8.6	35
29	Edge strength of core drilled and waterjet cut holes in architectural glass. <i>Glass Structures and Engineering</i> , 2021 , 6, 131-145	1.4	1
28	Juxtaposing fresh material characterisation methods for buildability assessment of 3D printable cementitious mortars. <i>Cement and Concrete Composites</i> , 2021 , 120, 104024	8.6	19
27	Mechanical Behavior of Printed Strain Hardening Cementitious Composites. <i>Materials</i> , 2020 , 13,	3.5	11
26	A process classification framework for defining and describing Digital Fabrication with Concrete. <i>Cement and Concrete Research</i> , 2020 , 134, 106068	10.3	71
25	Extrusion-based additive manufacturing with cement-based materials [Production steps, processes, and their underlying physics: A review. <i>Cement and Concrete Research</i> , 2020 , 132, 106037	10.3	135
24	On-demand additive manufacturing of functionally graded concrete. <i>Virtual and Physical Prototyping</i> , 2020 , 15, 194-210	10.1	12
23	On the emergence of 3D printable Engineered, Strain Hardening Cementitious Composites (ECC/SHCC). <i>Cement and Concrete Research</i> , 2020 , 132, 106038	10.3	70
22	3D Concrete Printing - Free Form Geometries with Improved Ductility and Strength. <i>RILEM Bookseries</i> , 2020 , 741-756	0.5	1

21	Complex Architecture in Printed Concrete: The Case of the Innsbruck University 350th Anniversary Pavilion COHESION. <i>RILEM Bookseries</i> , 2020 , 1116-1127	0.5	7
20	Bond of Reinforcement Cable in 3D Printed Concrete. <i>RILEM Bookseries</i> , 2020 , 584-600	0.5	6
19	Bending and Pull-Out Tests on a Novel Screw Type Reinforcement for Extrusion-Based 3D Printed Concrete. <i>RILEM Bookseries</i> , 2020 , 632-645	0.5	10
18	Quality Assessment of Printable Strain Hardening Cementitious Composites Manufactured in Two Different Printing Facilities. <i>RILEM Bookseries</i> , 2020 , 824-838	0.5	2
17	Opportunities and challenges for structural engineering of digitally fabricated concrete. <i>Cement and Concrete Research</i> , 2020 , 133, 106079	10.3	53
16	Triaxial compression testing on early age concrete for numerical analysis of 3D concrete printing. <i>Cement and Concrete Composites</i> , 2019 , 104, 103344	8.6	69
15	Digital Concrete: A Review. <i>Cement and Concrete Research</i> , 2019 , 123, 105780	10.3	157
14	Hardened properties of 3D printed concrete: The influence of process parameters on interlayer adhesion. <i>Cement and Concrete Research</i> , 2019 , 119, 132-140	10.3	185
13	An approach to develop printable strain hardening cementitious composites. <i>Materials and Design</i> , 2019 , 169, 107651	8.1	69
12	The influence of material temperature on the in-print strength and stability of a 3D print mortar 2019 , 425-430		2
11	Ductility of 3D printed concrete reinforced with short straight steel fibers. <i>Virtual and Physical Prototyping</i> , 2019 , 14, 160-174	10.1	69
10	Large Scale Testing of Digitally Fabricated Concrete (DFC) Elements. <i>RILEM Bookseries</i> , 2019 , 129-147	0.5	11
9	Early age mechanical behaviour of 3D printed concrete: Numerical modelling and experimental testing. <i>Cement and Concrete Research</i> , 2018 , 106, 103-116	10.3	290
8	3D Printing Concrete with Reinforcement 2018 , 2484-2493		31
7	3D Printing Concrete on temporary surfaces: The design and fabrication of a concrete shell structure. <i>Automation in Construction</i> , 2018 , 94, 395-404	9.6	32
6	Design of a 3D printed concrete bridge by testing. <i>Virtual and Physical Prototyping</i> , 2018 , 13, 222-236	10.1	125
5	Correlation between destructive compression tests and non-destructive ultrasonic measurements on early age 3D printed concrete. <i>Construction and Building Materials</i> , 2018 , 181, 447-454	6.7	48
4	Rethinking reinforcement for digital fabrication with concrete. <i>Cement and Concrete Research</i> , 2018 , 112, 111-121	10.3	156

3	A Real-Time Height Measurement and Feedback System for 3D Concrete Printing 2018 , 2474-2483		13
2	Experimental Exploration of Metal Cable as Reinforcement in 3D Printed Concrete. <i>Materials</i> , 2017 , 10,	3-5	94
1	Additive manufacturing of concrete in construction: potentials and challenges of 3D concrete printing. <i>Virtual and Physical Prototyping</i> , 2016 , 11, 209-225	10-1	450