DaniÃ¨le Waldmann

List of Publications by Year
in descending order

46 papers	1,097 citations	471061 17 h-index	414034 32 g-index
47 all docs	47 docs citations	47 times ranked	949 citing authors

#	Article	IF	Citations
1	Behavior of Circular Fiber-Reinforced Polymerâ€“Steel-Confined Concrete Columns Subjected to Reversed Cyclic Loads: Experimental Studies and Finite-Element Analysis. Journal of Structural Engineering, 2019, 145, .	1.7	96
2	Steel fibers as only reinforcement for flat slab construction â€“ Experimental investigation and design. Construction and Building Materials, 2012, 26, 145-155.	3.2	94
3	Experimental and numerical investigation on postcracking behavior of steel fiber reinforced concrete. Engineering Fracture Mechanics, 2013, 98, 326-349.	2.0	77
4	Monotonic axial compressive behaviour and confinement mechanism of square CFRP-steel tube confined concrete. Engineering Structures, 2020, 217, 110802.	2.6	75
5	Field study on the energy consumption of school buildings in Luxembourg. Energy and Buildings, 2014, 68, 460-470.	3.1	72
6	BIM-Based End-of-Lifecycle Decision Making and Digital Deconstruction: Literature Review. Sustainability, 2020, 12, 2670.	1.6	70
7	A material and component bank to facilitate material recycling and component reuse for a sustainable construction: concept and preliminary study. Clean Technologies and Environmental Policy, 2019, 21, 2015-2032.	2.1	60
8	Shear stresses in honeycomb sandwich plates: Analytical solution, finite element method and experimental verification. Journal of Sandwich Structures and Materials, 2012, 14, 449-468.	2.0	57
9	Field tests of centralized and decentralized ventilation units in residential buildings â€“ Specific fan power, heat recovery efficiency, shortcuts and volume flow unbalances. Energy and Buildings, 2016, 116, 376-383.	3.1	51
10	Development of a BIM-Based Web Tool as a Material and Component Bank for a Sustainable Construction Industry. Sustainability, 2020, 12, 1766.	1.6	40
11	Investigation of Mycelium-Miscanthus composites as building insulation material. Results in Materials, 2021, 10, 100189.	0.9	39
12	Application of the DAD method for damage localisation on an existing bridge structure using close-range UAV photogrammetry. Engineering Structures, 2020, 218, 110727.	2.6	37
13	Gravel wash mud, a quarry waste material as supplementary cementitious material (SCM). Cement and Concrete Research, 2019, 124, 105833.	4.6	26
14	Development of a reinforced PMMA-based hip spacer adapted to patientsâ€™ needs. Medical Engineering and Physics, 2009, 31, 930-936.	0.8	25
15	Impact of the height imperfections of masonry blocks on the load bearing capacity of dry-stack masonry walls. Construction and Building Materials, 2018, 165, 898-913.	3.2	25
16	The Deformation Area Difference (DAD) method for condition assessment of reinforced structures. Engineering Structures, 2018, 155, 315-329.	2.6	25
17	Influence of the sheet profile design on the composite action of slabs made of lightweight woodchip concrete. Construction and Building Materials, 2017, 148, 887-899.	3.2	20
18	Damage assessment of concrete structures through dynamic testing methods. Part 1 â€“ Laboratory tests. Engineering Structures, 2012, 34, 351-362.	2.6	17

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19	Damage assessment of concrete structures through dynamic testing methods. Part 2: Bridge tests. Engineering Structures, 2012, 34, 483-494.	2.6	16
20	A semi-centralized, valveless and demand controlled ventilation system in comparison to other concepts in field tests. Building and Environment, 2015, 93, 21-26.	3.0	16
21	Recyclable Architecture: Prefabricated and Recyclable Typologies. Sustainability, 2020, 12, 1342.	1.6	16
22	Nonlinear three-dimensional anisotropic material model for failure analysis of timber. Engineering Failure Analysis, 2021, 130, 105764.	1.8	15
23	Optimisation of the mechanical properties of Miscanthus lightweight concrete. Construction and Building Materials, 2020, 258, 119643.	3.2	14
24	Modelling of mineral construction and demolition waste dynamics through a combination of geospatial and image analysis. Journal of Environmental Management, 2021, 282, 111879.	3.8	14
25	Fatigue in the core of aluminum honeycomb panels: Lifetime prediction compared with fatigue tests. International Journal of Damage Mechanics, 2014, 23, 661-683.	2.4	13
26	Assessment of the suitability of gravel wash mud as raw material for the synthesis of an alkali-activated binder. Applied Clay Science, 2018, 161, 110-118.	2.6	11
27	Curvature based DAD-method for damage localisation under consideration of measurement noise minimisation. Engineering Structures, 2019, 181, 293-309.	2.6	9
28	Machine learning in mix design of Miscanthus lightweight concrete. Construction and Building Materials, 2021, 302, 124191.	3.2	9
29	Overcome of bed-joint imperfections and improvement of actual contact in dry-stacked masonry. Construction and Building Materials, 2020, 233, 117173.	3.2	7
30	Impact of Pile Punching on Adjacent Piles: Insights from a 3D Coupled SPH-FEM Analysis. Applied Mechanics, 2020, 1, 47-58.	0.7	6
31	Tragverhalten von Flachdecken aus Stahlfaserbeton im negativen Momentenbereich und Bemessungsmodell fÃ¼r das Gesamtsystem. Beton- Und Stahlbetonbau, 2010, 105, 496-508.	0.4	5
32	Performance of lime-metakaolin pastes using gravel wash mud (GWM). Cement and Concrete Composites, 2020, 114, 103772.	4.6	5
33	Summertime Overheating Risk Assessment of a Flexible Plug-In Modular Unit in Luxembourg. Sustainability, 2020, 12, 8474.	1.6	5
34	Feldstudie zum Energieverbrauch von BÃ¼rogebÃuden. Bauphysik, 2011, 33, 158-166.	1.2	4
35	Messtechnische Ermittlung der Uâ€Werte von AuÃŸenwÃnden im Vergleich mit Typologiewerten fÃ¼r den GebÃudebestand. Bauphysik, 2015, 37, 273-276.	1.2	4
36	Some remarks on the influence of temperature-variations, non-linearities, repeatability and ageing on modal-analysis for structural health monitoring of real bridges. MATEC Web of Conferences, 2015, 24, 05006.	0.1	4

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37	Primary energy used in centralised and decentralised ventilation systems measured in field tests in residential buildings. International Journal of Ventilation, 2019, 18, 19-27.	0.2	4
38	Binary blended cement pastes and concrete using gravel wash mud (GWM) powders. Construction and Building Materials, 2021, 302, 124225.	3.2	4
39	Experimental and analytical analysis of the load-bearing capacity Pu of improved dry-stacked masonry. Journal of Building Engineering, 2020, 27, 100927.	1.6	3
40	Analysis of the geometrical imperfections of a dry-stacked masonry block based on Miscanthus. Construction and Building Materials, 2021, 310, 125282.	3.2	2
41	Entwicklung von hybriden WÃrmedÃmmsteinen aus LAC. Mauerwerk, 2010, 14, 10-18.	0.2	1
42	Design, Repeatability, and Comparison to Literature Data of a New Noninvasive Device Called â€œRotameterâ€•to Measure Rotational Knee Laxity. International Scholarly Research Notices, 2015, 2015, 1-9.	0.9	1
43	Vergleich statischer und dynamischer Methoden zur Zustandsbewertung von Stahlbeton- und Spannbetontragwerken. Beton- Und Stahlbetonbau, 2009, 104, 628-641.	0.4	0
44	Acoustics During the Vibratory Pile Driving of Sheet Piles: Measurement Conditions and Key Parameters of the Noise Generation. Acta Acustica United With Acustica, 2010, 96, 1104-1114.	0.8	0
45	Dynamische Zustandsbewertung einer VerbundbrÃ¼cke: Beobachtung ÃuÃŸerer und nichtlinearer EinflÃ¼sse auf die modalen Eigenschaften. Beton- Und Stahlbetonbau, 2010, 105, 509-520.	0.4	0
46	Use of a Computed Tomography Based Approach to Validate Noninvasive Devices to Measure Rotational Knee Laxity. International Scholarly Research Notices, 2015, 2015, 1-7.	0.9	0