

Tom Van Mele

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

306
citations

933447

10
h-index

888059

17
g-index

20
all docs

20
docs citations

20
times ranked

191
citing authors

#	ARTICLE	IF	CITATIONS
1	On the equilibrium of funicular polyhedral frames and convex polyhedral force diagrams. CAD Computer Aided Design, 2015, 63, 118-128.	2.7	57
2	Structural design, digital fabrication and construction of the cable-net and knitted formwork of the KnitCandela concrete shell. Structures, 2021, 31, 1287-1299.	3.6	51
3	A Cable-Net and Fabric Formwork System for the Construction of Concrete Shells: Design, Fabrication and Construction of a Full Scale Prototype. Structures, 2019, 18, 72-82.	3.6	28
4	Piecewise rigid displacement (PRD) method: a limit analysis-based approach to detect mechanisms and internal forces through two dual energy criteria. Mechanics Research Communications, 2020, 107, 103557.	1.8	26
5	Challenges and Opportunities in Scaling up Architectural Applications of Mycelium-Based Materials with Digital Fabrication. Biomimetics, 2022, 7, 44.	3.3	24
6	Disjointed force polyhedra. CAD Computer Aided Design, 2018, 99, 11-28.	2.7	17
7	Scissor-hinged retractable membrane structures. International Journal of Structural Engineering, 2010, 1, 374.	0.4	13
8	Tile vaults as integrated formwork for reinforced concrete: Construction, experimental testing and a method for the design and analysis of two-dimensional structures. Engineering Structures, 2019, 188, 233-248.	5.3	12
9	Parametric Stability Analysis of Groin Vaults. Applied Sciences (Switzerland), 2021, 11, 3560.	2.5	11
10	Decomposing Three-Dimensional Shapes into Self-supporting, Discrete-Element Assemblies. , 2015, , 187-201.		11
11	Three-dimensional graphic statics: Initial explorations with polyhedral form and force diagrams. International Journal of Space Structures, 2016, 31, 217-226.	1.0	10
12	Robotically controlled scale-model testing of masonry vault collapse. Meccanica, 2018, 53, 1917-1929.	2.0	10
13	The combination of tile vaults with reinforcement and concrete. International Journal of Architectural Heritage, 2019, 13, 782-798.	3.1	8
14	Morph & Slerp. , 2020, , .		8
15	Coupled Rigid-Block Analysis: Stability-Aware Design of Complex Discrete-Element Assemblies. CAD Computer Aided Design, 2022, 146, 103216.	2.7	8
16	Compressive Assemblies: Bottom-Up Performance for a New Form of Construction. Architectural Design, 2017, 87, 104-109.	0.1	5
17	Structural Stone Surfaces: New Compression Shells Inspired by the Past. Architectural Design, 2015, 85, 74-79.	0.1	2
18	Reciprocal diagrams: Innovative applications of past theories. International Journal of Space Structures, 2016, 31, 84-84.	1.0	2

#	ARTICLE	IF	CITATIONS
19	Design of a funicular concrete bridge with knitted formwork. , 2021, , .		2
20	Understanding the rigid-block equilibrium method by way of mathematical programming. Proceedings of the Institution of Civil Engineers: Engineering and Computational Mechanics, 2021, 174, 178-192.	0.4	1