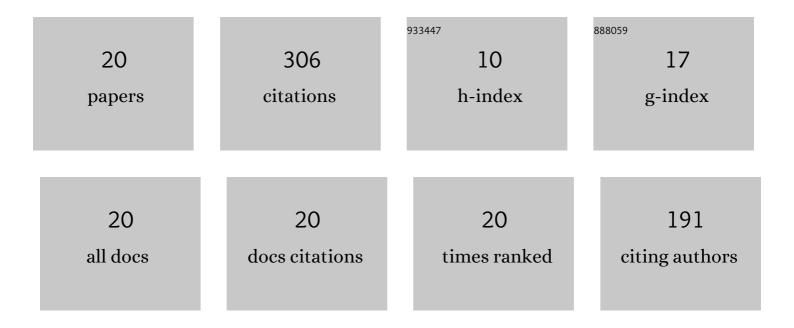
## Tom Van Mele

List of Publications by Year in descending order

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TOM VAN MELE

| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | On the equilibrium of funicular polyhedral frames and convex polyhedral force diagrams. CAD<br>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<br>internal forces through two dual energy criteria. Mechanics Research Communications, 2020, 107,<br>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, ,<br>187-201.  |     | 11        |
| 11 | Three-dimensional graphic statics: Initial explorations with polyhedral form and force diagrams.<br>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<br>Computer Aided Design, 2022, 146, 103216.  | 2.7 | 8         |
| 16 | Compressive Assemblies: Bottomâ€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<br>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         |