

Romain Mesnil

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

416
citations

623734

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20
g-index

30
all docs

30
docs citations

30
times ranked

262
citing authors

#	ARTICLE	IF	CITATIONS
1	Rule-based generative design of translational and rotational interlocking assemblies. Automation in Construction, 2022, 135, 104142.	9.8	4
2	Layer pressing in concrete extrusion-based 3D-printing: Experiments and analysis. Cement and Concrete Research, 2022, 155, 106741.	11.0	22
3	Scaffold-free 3D printing of shells: Introduction to patching grammar. Automation in Construction, 2022, 139, 104306.	9.8	2
4	Strategy to shape, on a half-meter scale, a geopolymer composite structure by additive manufacturing. Open Ceramics, 2021, 5, 100071.	2.0	6
5	Flow-based pultrusion of continuous fibers for cement-based composite material and additive manufacturing: rheological and technological requirements. Composite Structures, 2021, 262, 113564.	5.8	20
6	Topology optimization of load-bearing capacity. Structural and Multidisciplinary Optimization, 2021, 64, 1367-1383.	3.5	5
7	The "Slugs-test" for extrusion-based additive manufacturing: Protocol, analysis and practical limits. Cement and Concrete Composites, 2021, 121, 104074.	10.7	25
8	Two-Colour Topology Finding of Quad-Mesh Patterns. CAD Computer Aided Design, 2021, 137, 103030.	2.7	3
9	3D printing of mortar with continuous fibres: Principle, properties and potential for application. Automation in Construction, 2021, 129, 103806.	9.8	15
10	Free-form structures from topologically interlocking masonries. Automation in Construction, 2020, 113, 103117.	9.8	10
11	Additive manufacturing of cantilever - From masonry to concrete 3D printing. Automation in Construction, 2020, 116, 103184.	9.8	58
12	A BIM-Based Framework and Databank for Reusing Load-Bearing Structural Elements. Sustainability, 2020, 12, 3147.	3.2	33
13	"The Slug Test": Inline Assessment of Yield Stress for Extrusion-Based Additive Manufacturing. RILEM Bookseries, 2020, , 216-224.	0.4	9
14	Free Deposition Printing for Space Truss Structures. RILEM Bookseries, 2020, , 873-882.	0.4	5
15	Feature-based topology finding of patterns for shell structures. Automation in Construction, 2019, 103, 185-201.	9.8	23
16	Form Finding of Nexorades Using the Translations Method. , 2019, , 232-241.		1
17	A Re-Parameterization Approach for the Construction of Domes with Planar Facets. Journal of the International Association for Shell and Spatial Structures, 2018, 59, 286-295.	0.3	1
18	Fabrication-aware shape parametrisation for the structural optimisation of shell structures. Engineering Structures, 2018, 176, 569-584.	5.3	6

#	ARTICLE	IF	CITATIONS
19	Form finding of nexorades using the translations method. Automation in Construction, 2018, 95, 142-154.	9.8	21
20	Morphogenesis of surfaces with planar lines of curvature and application to architectural design. Automation in Construction, 2018, 95, 129-141.	9.8	19
21	Proposals to make Complex Structures Affordable. IABSE Symposium Report, 2018, , .	0.0	1
22	Isoradial meshes: Covering elastic gridshells with planar facets. Automation in Construction, 2017, 83, 222-236.	9.8	22
23	Generalised cyclidic nets for shape modelling in architecture. International Journal of Architectural Computing, 2017, 15, 148-168.	1.5	14
24	Linear buckling of quadrangular and kagome gridshells: A comparative assessment. Engineering Structures, 2017, 132, 337-348.	5.3	26
25	Marionette Meshes: Modelling free-form architecture with planar facets. International Journal of Space Structures, 2017, 32, 184-198.	1.0	19
26	Structural Morphology and Performance of Plated Structures with Planar Quadrilateral Facets. Journal of the International Association for Shell and Spatial Structures, 2017, 58, 7-22.	0.3	2
27	Non-Standard Patterns for Gridshell Structures: Fabrication and Structural Optimization. Journal of the International Association for Shell and Spatial Structures, 2017, 58, 277-286.	0.3	6
28	Stability of Pseudo-Funicular Elastic Grid Shells. International Journal of Space Structures, 2015, 30, 27-36.	1.0	11
29	Isogonal moulding surfaces: A family of shapes for high node congruence in free-form structures. Automation in Construction, 2015, 59, 38-47.	9.8	27