Hanaa Dahy

List of Publications by Year
in descending order

15	244	932766 10	1125271 13
papers	citations	h-index	g-index

15	15	15	207
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Biocomposite materials based on annual natural fibres and biopolymers â€“ Design, fabrication and customized applications in architecture. Construction and Building Materials, 2017, 147, 212-220.	3.2	53
2	Natural Fibre-Reinforced Polymer Composites (NFRP) Fabricated from Lignocellulosic Fibres for Future Sustainable Architectural Applications, Case Studies: Segmented-Shell Construction, Acoustic Panels, and Furniture. Sensors, 2019, 19, 738.	2.1	51
3	Bio-Inspired Sustainability Assessment for Building Product Developmentâ€”Concept and Case Study. Sustainability, 2018, 10, 130.	1.6	29
4	Biomimicry as a Sustainable Design Methodologyâ€”Introducing the â€˜Biomimicry for Sustainabilityâ€™ Framework. Biomimetics, 2022, 7, 37.	1.5	20
5	Structural Optimization through Biomimetic-Inspired Material-Specific Application of Plant-Based Natural Fiber-Reinforced Polymer Composites (NFRP) for Future Sustainable Lightweight Architecture. Polymers, 2020, 12, 3048.	2.0	18
6	Efficient Fabrication of Sustainable Building Products from Annually Generated Non-wood Cellulosic Fibres and Bioplastics with Improved Flammability Resistance. Waste and Biomass Valorization, 2019, 10, 1167-1175.	1.8	15
7	â€˜Materials as a Design Toolâ€™ Design Philosophy Applied in Three Innovative Research Pavilions Out of Sustainable Building Materials with Controlled End-Of-Life Scenarios. Buildings, 2019, 9, 64.	1.4	14
8	Curved Foldable Tailored Fiber Reinforcements for Moldless Customized Bio-Composite Structures. Proof of Concept: Biomimetic NFRP Stools. Polymers, 2020, 12, 2000.	2.0	14
9	FlexFlax Stool: Validation of Moldless Fabrication of Complex Spatial Forms of Natural Fiber-Reinforced Polymer (NFRP) Structures through an Integrative Approach of Tailored Fiber Placement and Coreless Filament Winding Techniques. Applied Sciences (Switzerland), 2020, 10, 3278.	1.3	14
10	Mycomerge: Fabrication of Mycelium-Based Natural Fiber Reinforced Composites on a Rattan Framework. Biomimetics, 2022, 7, 42.	1.5	10
11	Tailored Lace: Moldless Fabrication of 3D Bio-Composite Structures through an Integrative Design and Fabrication Process. Applied Sciences (Switzerland), 2021, 11, 10989.	1.3	4
12	Influence of the 3 Rs on Modern Approaches in Sustainable Architecture. International Journal of Environmental Sustainability, 2013, 8, 43-53.	0.1	1
13	Geometric quality control for bio-based building elements: Study case segmented experimental shell. Journal of Applied Geodesy, 2022, .	0.6	1
14	Towards Sustainable Buildings with Free-Form Geometries: Development and Application of Flexible NFRP in Load-Bearing Structures. Composites Science and Technology, 2021, , 31-43.	0.4	0
15	Design studies and applications of mycelium biocomposites in architecture. , 2022, , 489-527.		0