Ben Bridgens

List of Publications by Year
in descending order

23	961	516215 16	676716 22
papers	citations	h-index	g-index

23	23	23	976
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hygromorphic materials for sustainable responsive architecture. Construction and Building Materials, 2015, 98, 570-582.	3.2	108
2	Influence of surface roughness on the initial formation of biofilm. Surface and Coatings Technology, 2015, 284, 410-416.	2.2	92
3	Creative upcycling: Reconnecting people, materials and place through making. Journal of Cleaner Production, 2018, 189, 145-154.	4.6	92
4	Form and function: The significance of material properties in the design of tensile fabric structures. Engineering Structures, 2012, 44, 1-12.	2.6	78
5	Direct stressâ€“strain representation for coated woven fabrics. Computers and Structures, 2004, 82, 1913-1927.	2.4	74
6	A mechanistic Individual-based Model of microbial communities. PLoS ONE, 2017, 12, e0181965.	1.1	69
7	Analysis and design of membrane structures: Results of a round robin exercise. Engineering Structures, 2013, 48, 313-328.	2.6	63
8	Extracellular Polymeric Substance Production and Aggregated Bacteria Colonization Influence the Competition of Microbes in Biofilms. Frontiers in Microbiology, 2017, 8, 1865.	1.5	63
9	Sustainable Materialisation of Responsive Architecture. Sustainability, 2017, 9, 435.	1.6	54
10	Shear behaviour of architectural fabrics subjected to biaxial tensile loads. Composites Part A: Applied Science and Manufacturing, 2014, 66, 163-174.	3.8	51
11	Closing the Loop on Eâ€waste: A Multidisciplinary Perspective. Journal of Industrial Ecology, 2019, 23, 169-181.	2.8	39
12	Inter-laboratory comparison of biaxial tests for architectural textiles. Journal of the Textile Institute, 2012, 103, 706-718.	1.0	38
13	Adoption of a reliability approach for membrane structure analysis. Structural Safety, 2013, 40, 39-50.	2.8	38
14	Cosmetic obsolescence? User perceptions of new and artificially aged materials. Materials and Design, 2016, 101, 355-365.	3.3	27
15	Material Testing & Computational Mechanics â€" A New Philosophy for Architectural Fabrics. International Journal of Space Structures, 2008, 23, 215-232.	0.3	21
16	Ageing (dis)gracefully: Enabling designers to understand material change. Journal of Cleaner Production, 2019, 220, 417-430.	4.6	18
17	A Bayesian approach to modelling the impact of hydrodynamic shear stress on biofilm deformation. PLoS ONE, 2018, 13, e0195484.	1.1	11
18	Bacterial Spore-Based Hygromorphs: A Novel Active Material with Potential for Architectural Applications. Sustainability, 2021, 13, 4030.	1.6	7

#	Article	IF	Citations
19	Photosynthetic textile biocomposites: Using laboratory testing and digital fabrication to develop flexible living building materials. Science and Engineering of Composite Materials, 2021, 28, 223-236.	0.6	7
20	Skin deep. Perceptions of human and material ageing and opportunities for design. Design Journal, 2019, 22, 2251-2255.	0.5	5
21	Design for Nextâ€¦ Year. The Challenge of Designing for Material Change. Design Journal, 2017, 20, S160-S171.	0.5	3
22	Clay 3D printing as a bio-design research tool: development of photosynthetic living building components. Architectural Science Review, 2022, 65, 185-195.	1.1	3
23	Material change: transforming experience. , 2021, , 89-102.		0