

Neri Oxman

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2022873/publications.pdf>

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29
papers

1,291
citations

471371

17
h-index

552653

26
g-index

29
all docs

29
docs citations

29
times ranked

1742
citing authors

#	ARTICLE	IF	CITATIONS
1	Better together: engineering and application of microbial symbioses. <i>Current Opinion in Biotechnology</i> , 2015, 36, 40-49.	3.3	226
2	Toward site-specific and self-sufficient robotic fabrication on architectural scales. <i>Science Robotics</i> , 2017, 2, .	9.9	156
3	Compound fabrication: A multi-functional robotic platform for digital design and fabrication. <i>Robotics and Computer-Integrated Manufacturing</i> , 2013, 29, 439-448.	6.1	143
4	Variable property rapid prototyping. <i>Virtual and Physical Prototyping</i> , 2011, 6, 3-31.	5.3	142
5	Making data matter: Voxel printing for the digital fabrication of data across scales and domains. <i>Science Advances</i> , 2018, 4, eaas8652.	4.7	78
6	3D Printed Multimaterial Microfluidic Valve. <i>PLoS ONE</i> , 2016, 11, e0160624.	1.1	58
7	Water-Based Robotic Fabrication: Large-Scale Additive Manufacturing of Functionally Graded Hydrogel Composites via Multichamber Extrusion. <i>3D Printing and Additive Manufacturing</i> , 2014, 1, 141-151.	1.4	52
8	Digital anisotropy: A variable elasticity rapid prototyping platform. <i>Virtual and Physical Prototyping</i> , 2012, 7, 261-274.	5.3	47
9	Hybrid Living Materials: Digital Design and Fabrication of 3D Multimaterial Structures with Programmable Biohybrid Surfaces. <i>Advanced Functional Materials</i> , 2020, 30, 1907401.	7.8	47
10	DNA Assembly in 3D Printed Fluidics. <i>PLoS ONE</i> , 2015, 10, e0143636.	1.1	40
11	Flow-based fabrication: An integrated computational workflow for design and digital additive manufacturing of multifunctional heterogeneously structured objects. <i>CAD Computer Aided Design</i> , 2015, 69, 143-154.	1.4	36
12	Structuring Materiality: Design Fabrication of Heterogeneous Materials. <i>Architectural Design</i> , 2010, 80, 78-85.	0.1	34
13	Data-Driven Material Modeling with Functional Advection for 3D Printing of Materially Heterogeneous Objects. <i>3D Printing and Additive Manufacturing</i> , 2016, 3, 71-79.	1.4	34
14	Grown, Printed, and Biologically Augmented: An Additively Manufactured Microfluidic Wearable, Functionally Templated for Synthetic Microbes. <i>3D Printing and Additive Manufacturing</i> , 2016, 3, 79-89.	1.4	32
15	Material-based Design Computation An Inquiry into Digital Simulation of Physical Material Properties as Design Generators. <i>International Journal of Architectural Computing</i> , 2007, 5, 25-44.	0.9	29
16	Towards Robotic Swarm Printing. <i>Architectural Design</i> , 2014, 84, 108-115.	0.1	24
17	FIBERBOTS: an autonomous swarm-based robotic system for digital fabrication of fiber-based composites. <i>Construction Robotics</i> , 2018, 2, 67-79.	1.2	20
18	Water-based Engineering & Fabrication: Large-Scale Additive Manufacturing of Biomaterials. <i>Materials Research Society Symposia Proceedings</i> , 2015, 1800, 1.	0.1	13

#	ARTICLE	IF	CITATIONS
19	A Compound Arm Approach to Digital Construction. , 2014, , 99-110.		13
20	Towards Fabrication Information Modeling (FIM): Four Case Models to Derive Designs informed by Multi-Scale Trans-Disciplinary Data. Materials Research Society Symposia Proceedings, 2015, 1800, 1.	0.1	12
21	Gemini: Engaging Experiential and Feature Scales Through Multimaterial Digital Design and Hybrid Additive Subtractive Fabrication. 3D Printing and Additive Manufacturing, 2014, 1, 108-114.	1.4	11
22	Templating Design for Biology and Biology for Design. Architectural Design, 2015, 85, 100-107.	0.1	11
23	Programming Matter. Architectural Design, 2012, 82, 88-95.	0.1	9
24	Recursive symmetries for geometrically complex and materially heterogeneous additive manufacturing. CAD Computer Aided Design, 2016, 81, 39-47.	1.4	8
25	Design of a multi-agent, fiber composite digital fabrication system. Science Robotics, 2018, 3, .	9.9	7
26	Photon mapping of geometrically complex glass structures: Methods and experimental evaluation. Building and Environment, 2020, 180, 106957.	3.0	4
27	Modelling Behaviour for Distributed Additive Manufacturing. , 2015, , 295-302.		3
28	Computational methods for the characterization of <i>Apis mellifera</i> comb architecture. Communications Biology, 2022, 5, 468.	2.0	2
29	A Rapid Fabrication Methodology for Payload Modules, Piloted for the Observation of Queen Honey Bees (<i>Apis mellifera</i>) in Microgravity. Gravitational and Space Research: Publication of the American Society for Gravitational and Space Research, 2021, 9, 104-114.	0.3	0