

Laura Mainini

List of Publications by Year in descending order

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21
papers

326
citations

1307594

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1474206

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g-index

21
all docs

21
docs citations

21
times ranked

293
citing authors

#	ARTICLE	IF	CITATIONS
1	Learning for Predictions: Real-Time Reliability Assessment of Aerospace Systems. AIAA Journal, 2022, 60, 566-577.	2.6	8
2	MarsGarden: Designing an ecosystem for a sustainable multiplanetary future. Acta Astronautica, 2022, 195, 445-455.	3.2	2
3	Learning for predictions: real-time reliability assessment of aerospace systems. , 2021, , .		1
4	Resource Aware Multifidelity Active Learning for Efficient Optimization. , 2021, , .		3
5	Computational framework for real-time diagnostics and prognostics of aircraft actuation systems. Computers in Industry, 2021, 132, 103523.	9.9	20
6	Multifidelity domain-aware learning for the design of re-entry vehicles. Structural and Multidisciplinary Optimization, 2021, 64, 3017-3035.	3.5	5
7	Power generation systems for L-MOXIE: concept proposal and trade-off analysis. , 2021, , .		0
8	Projection-based model reduction: Formulations for physics-based machine learning. Computers and Fluids, 2019, 179, 704-717.	2.5	210
9	Mars Garden An Engineered Greenhouse for a Sustainable Residence on Mars. , 2019, , .		3
10	Real-time Fault Detection and Prognostics for Aircraft Actuation Systems. , 2019, , .		14
11	A Machine Learning Enabled Multi-Fidelity Platform for the Integrated Design of Aircraft Systems. Journal of Mechanical Design, Transactions of the ASME, 2019, 141, .	2.9	8
12	A modelling framework to support power architecture trade-off studies for More-Electric Aircraft. Transportation Research Procedia, 2018, 29, 146-156.	1.5	9
13	A multi-fidelity framework to support the design of More-Electric Actuation. , 2018, , .		5
14	Data to decisions: Real-time structural assessment from sparse measurements affected by uncertainty. Computers and Structures, 2017, 182, 296-312.	4.4	15
15	Sensor placement strategy to inform decisions. , 2017, , .		6
16	Sensitivity analysis of surrogate-based methodology for real-time structural assessment. , 2015, , .		1
17	A surrogate modeling approach to support real-time structural assessment and decision-making. , 2014, , .		2
18	Multi-objective Optimization of a Multifunctional Structure through a MOGA and SOM based Methodology. , 2013, , .		1

#	ARTICLE	IF	CITATIONS
19	Multidisciplinary Integrated Framework for the Optimal Design of a Jet Aircraft Wing. International Journal of Aerospace Engineering, 2012, 2012, 1-9.	0.9	10
20	Multidisciplinary Integrated design Environment for Aircraft Wing Sizing. , 2010, , .		1
21	Structural Assessment and Sensor Placement Strategy for Self-Aware Aerospace Vehicles. , 0, , .		2