Nicola Demo

List of Publications by Year
in descending order

12 papers	**254** citations	933447 **10** h-index	1199594 **12** g-index
12 all docs	**12** docs citations	**12** times ranked	**145** citing authors

#	Article	IF	Citations
1	The Neural Network shifted-proper orthogonal decomposition: A machine learning approach for non-linear reduction of hyperbolic equations. Computer Methods in Applied Mechanics and Engineering, 2022, 392, 114687.	6.6	27
2	An efficient computational framework for naval shape design and optimization problems by means of data-driven reduced order modeling techniques. Bolletino Dell Unione Matematica Italiana, 2021, 14, 211-230.	1.0	13
3	A Supervised Learning Approach Involving Active Subspaces for an Efficient Genetic Algorithm in High-Dimensional Optimization Problems. SIAM Journal of Scientific Computing, 2021, 43, B831-B853.	2.8	13
4	A Gaussian Process Regression approach within a data-driven POD framework for engineering problems in fluid dynamics. Mathematics in Engineering, 2021, 4, 1-16.	0.9	14
5	PyGeM: Python Geometrical Morphing. Software Impacts, 2021, 7, 100047.	1.4	18
6	Hull Shape Design Optimization with Parameter Space and Model Reductions, and Self-Learning Mesh Morphing. Journal of Marine Science and Engineering, 2021, 9, 185.	2.6	22
7	Enhancing CFD predictions in shape design problems by model and parameter space reduction. Advanced Modeling and Simulation in Engineering Sciences, 2020, 7, .	1.7	15
8	Reduced Order Isogeometric Analysis Approach for PDEs in Parametrized Domains. Lecture Notes in Computational Science and Engineering, 2020, , 153-170.	0.3	7
9	A non-intrusive approach for the reconstruction of POD modal coefficients through active subspaces. Comptes Rendus - Mecanique, 2019, 347, 873-881.	2.1	26
10	PyDMD: Python Dynamic Mode Decomposition. Journal of Open Source Software, 2018, 3, 530.	4.6	64
11	EZyRB: Easy Reduced Basis method. Journal of Open Source Software, 2018, 3, 661.	4.6	25
12	Experience on Vectorizing Lattice Boltzmann Kernels for Multi- and Many-Core Architectures. Lecture Notes in Computer Science, 2016, , 53-62.	1.3	10