Francesc Verdugo

List of Publications by Year
in descending order

19	494	933264	794469
papers	citations	10	19
		h-index	g-index

19	19	19	216
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Linking ghost penalty and aggregated unfitted methods. Computer Methods in Applied Mechanics and Engineering, 2022, 388, 114232.	3.4	17
2	The software design of Gridap: A Finite Element package based on the Julia JIT compiler. Computer Physics Communications, 2022, 276, 108341.	3.0	21
3	Geometrical discretisations for unfitted finite elements on explicit boundary representations. Journal of Computational Physics, 2022, 460, 111162.	1.9	5
4	GridapDistributed: a massively parallel finite element toolbox in Julia. Journal of Open Source Software, 2022, 7, 4157.	2.0	3
5	The Aggregated Unfitted Finite Element Method on Parallel Tree-Based Adaptive Meshes. SIAM Journal of Scientific Computing, 2021, 43, C203-C234.	1.3	11
6	Physics-Informed Neural Networks with Hard Constraints for Inverse Design. SIAM Journal of Scientific Computing, 2021, 43, B1105-B1132.	1.3	167
7	A Generic Finite Element Framework on Parallel Tree-Based Adaptive Meshes. SIAM Journal of Scientific Computing, 2020, 42, C436-C468.	1.3	8
8	Gridap: An extensible Finite Element toolbox in Julia. Journal of Open Source Software, 2020, 5, 2520.	2.0	45
9	Distributed-memory parallelization of the aggregated unfitted finite element method. Computer Methods in Applied Mechanics and Engineering, 2019, 357, 112583.	3.4	19
10	The aggregated unfitted finite element method for elliptic problems. Computer Methods in Applied Mechanics and Engineering, 2018, 336, 533-553.	3.4	73
11	Robust and scalable domain decomposition solvers for unfitted finite element methods. Journal of Computational and Applied Mathematics, 2018, 344, 740-759.	1.1	24
12	Mixed Aggregated Finite Element Methods for the Unfitted Discretization of the Stokes Problem. SIAM Journal of Scientific Computing, 2018, 40, B1541-B1576.	1.3	21
13	Efficient solvers for coupled models in respiratory mechanics. International Journal for Numerical Methods in Biomedical Engineering, 2017, 33, e02795.	1.0	8
14	Unified computational framework for the efficient solution of n-field coupled problems with monolithic schemes. Computer Methods in Applied Mechanics and Engineering, 2016, 310, 335-366.	3.4	31
15	Goal-oriented space-time adaptivity for transient dynamics using a modal description of the adjoint solution. Computational Mechanics, 2014, 54, 331-352.	2.2	8
16	Error Assessment in Structural Transient Dynamics. Archives of Computational Methods in Engineering, 2014, 21, 59-90.	6.0	7
17	AN ALGORITHM FOR MESH REFINEMENT AND UN-REFINEMENT IN FAST TRANSIENT DYNAMICS. International Journal of Computational Methods, 2013, 10, 1350018.	0.8	12
18	Modal-based goal-oriented error assessment for time-dependent quantities in transient dynamics. International Journal for Numerical Methods in Engineering, 2013, 95, 685-720.	1.5	7

#	Article	IF	Citations
19	Computable bounds of functional outputs in linear visco-elastodynamics. Computer Methods in Applied Mechanics and Engineering, 2012, 245-246, 313-330.	3.4	7