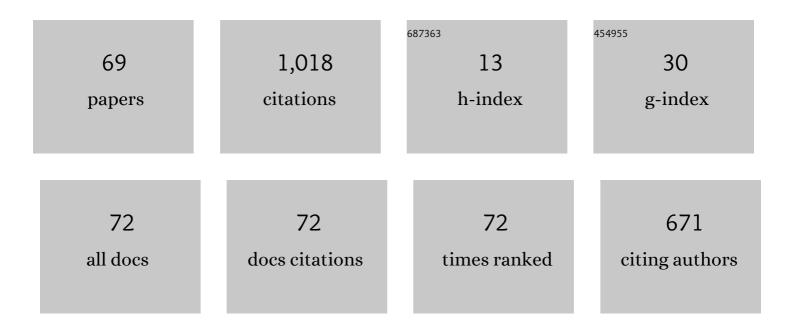
Eugenio Aulisa

List of Publications by Year in descending order

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FUCENIO AULISA

#	Article	IF	CITATIONS
1	Interface reconstruction with least-squares fit and split advection in three-dimensional Cartesian geometry. Journal of Computational Physics, 2007, 225, 2301-2319.	3.8	200
2	A geometrical area-preserving Volume-of-Fluid advection method. Journal of Computational Physics, 2003, 192, 355-364.	3.8	122
3	A mixed markers and volume-of-fluid method for the reconstruction and advection of interfaces in two-phase and free-boundary flows. Journal of Computational Physics, 2003, 188, 611-639.	3.8	115
4	A surface marker algorithm coupled to an area-preserving marker redistribution method for three-dimensional interface tracking. Journal of Computational Physics, 2004, 197, 555-584.	3.8	72
5	Analysis of generalized Forchheimer flows of compressible fluids in porous media. Journal of Mathematical Physics, 2009, 50, .	1.1	55
6	Benchmark problems for wave propagation in elastic materials. Computational Mechanics, 2009, 43, 797-814.	4.0	49
7	A novel representation of the surface tension force for two-phase flow with reduced spurious currents. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 6239-6257.	6.6	30
8	A monolithic ALE Newton–Krylov solver with Multigrid-Richardson–Schwarz preconditioning for incompressible Fluid-Structure Interaction. Computers and Fluids, 2018, 174, 213-228.	2.5	25
9	A New Method for Evaluating the Productivity Index of Nonlinear Flows. SPE Journal, 2009, 14, 693-706.	3.1	23
10	A computational multilevel approach for solving 2D Navier–Stokes equations over non-matching grids. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 4604-4616.	6.6	22
11	MATHEMATICAL FRAMEWORK OF THE WELL PRODUCTIVITY INDEX FOR FAST FORCHHEIMER (NON-DARCY) FLOWS IN POROUS MEDIA. Mathematical Models and Methods in Applied Sciences, 2009, 19, 1241-1275.	3.3	22
12	A Multilevel Domain Decomposition Approach for Studying Coupled Flow Applications. Communications in Computational Physics, 2009, , 319-341.	1.7	16
13	Magnetic drug targeting simulations in blood flows with fluidâ€structure interaction. International Journal for Numerical Methods in Biomedical Engineering, 2018, 34, e2954.	2.1	15
14	Geometric framework for modeling nonlinear flows in porous media, and its applications in engineering. Nonlinear Analysis: Real World Applications, 2010, 11, 1734-1751.	1.7	14
15	Boundary Control Problems in Convective Heat Transfer with Lifting Function Approach and Multigrid Vanka-Type Solvers. Communications in Computational Physics, 2015, 18, 621-649.	1.7	13
16	Long-term dynamics for well productivity index for nonlinear flows in porous media. Journal of Mathematical Physics, 2011, 52, 023506.	1.1	11
17	Block triangular preconditioners for linearization schemes of the Rayleigh–Bénard convection problem. Numerical Linear Algebra With Applications, 2017, 24, e2096.	1.6	9
18	A particle tracking algorithm for parallel finite element applications. Computers and Fluids, 2017, 159, 338-355.	2.5	9

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#	Article	IF	CITATIONS
19	A non-conforming computational methodology for modeling coupled problems. Nonlinear Analysis: Theory, Methods & Applications, 2005, 63, e1445-e1454.	1.1	8
20	A multilevel domain decomposition approach to solving coupled applications in computational fluid dynamics. International Journal for Numerical Methods in Fluids, 2008, 56, 1139-1145.	1.6	8
21	Interface tracking with dynamically-redistributed surface markers in unstructured quadrangular grids. Computers and Fluids, 2006, 35, 1332-1343.	2.5	7
22	Macroscopic Theory for Capillary-Pressure Hysteresis. Langmuir, 2015, 31, 2390-2397.	3.5	7
23	Potential and Optimal Target Fixating Control of the Human Head/Eye Complex. IEEE Transactions on Control Systems Technology, 2015, 23, 796-804.	5.2	7
24	Construction of H-Refined Continuous Finite Element Spaces with Arbitrary Hanging Node Configurations and Applications to Multigrid Algorithms. SIAM Journal of Scientific Computing, 2019, 41, A480-A507.	2.8	7
25	Optimal Control Problems in Binocular Vision. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 5283-5289.	0.4	6
26	Velocity Control of a Counter-Flow Heat Exchanger. IFAC-PapersOnLine, 2016, 49, 104-109.	0.9	6
27	Monolithic coupling of the implicit material point method with the finite element method. Computers and Structures, 2019, 219, 1-15.	4.4	6
28	Continuous-time predator–prey systems with Allee effects in the prey. Mathematics and Computers in Simulation, 2014, 105, 1-16.	4.4	5
29	Analysis of an iterative scheme for approximate regulation for nonlinear systems. International Journal of Robust and Nonlinear Control, 2018, 28, 3140-3173.	3.7	5
30	An improved multigrid algorithm for n-irregular meshes with subspace correction smoother. Computers and Mathematics With Applications, 2018, 76, 620-632.	2.7	5
31	New preconditioning techniques for the steady and unsteady buoyancy driven flow problems. Journal of Computational Physics, 2018, 371, 244-260.	3.8	5
32	Analysis of the error in an iterative algorithm for asymptotic regulation of linear distributed parameter control systems. ESAIM: Mathematical Modelling and Numerical Analysis, 2019, 53, 1577-1606.	1.9	5
33	Fluidâ€structure interaction simulations of venous valves: A monolithic ALE method for large structural displacements. International Journal for Numerical Methods in Biomedical Engineering, 2019, 35, e3156.	2.1	5
34	Fluid structure interaction problem with changing thickness beam and slightly compressible fluid. Discrete and Continuous Dynamical Systems - Series S, 2014, 7, 1133-1148.	1.1	5
35	A Marker-VOF Algorithm for Incompressible Flows With Interfaces. , 2002, , 905.		4

An example of thermal regulation of a two dimensional non-isothermal incompressible flow. , 2012, , .

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#	Article	IF	CITATIONS
37	Upscaling of Forchheimer flows. Advances in Water Resources, 2014, 70, 77-88.	3.8	4
38	An adaptive mesh refinement strategy for finite element solution of the elliptic problem. Computers and Mathematics With Applications, 2018, 76, 224-244.	2.7	4
39	Computational p-Willmore Flow with Conformal Penalty. ACM Transactions on Graphics, 2020, 39, 1-16.	7.2	4
40	FLUID-STRUCTURE SIMULATIONS AND BENCHMARKING OF ARTERY ANEURYSMS UNDER PULSATILE BLOOD FLOW. , 2017, , .		4
41	Computational Modeling of Highly Flexible Membrane Wings in Micro Air Vehicles. , 2006, , .		3
42	Time asymptotics of non-darcy flows controlled by total flux on the boundary. Journal of Mathematical Sciences, 2012, 184, 399-430.	0.4	3
43	FOV-equivalent block triangular preconditioners for generalized saddle-point problems. Applied Mathematics Letters, 2018, 75, 43-49.	2.7	3
44	Convergence estimates for multigrid algorithms with SSC smoothers and applications to overlapping domain decomposition. Applied Numerical Mathematics, 2018, 131, 16-38.	2.1	3
45	A fieldâ€split preconditioning technique for fluidâ€structure interaction problems with applications in biomechanics. International Journal for Numerical Methods in Biomedical Engineering, 2020, 36, e3301.	2.1	3
46	Efficient quadrature rules for finite element discretizations of nonlocal equations. Numerical Methods for Partial Differential Equations, 2022, 38, 1767-1793.	3.6	3
47	Constructing isothermal curvature line coordinates on surfaces which admit them. Open Mathematics, 2013, 11, .	1.0	2
48	Tracking and optimal control problems in human head/eye coordination. , 2013, , .		2
49	A multilevel domain decomposition solver for monolithic fluid-structure interaction problems. , 2013, , .		2
50	Optimal Eye and Head Movement Control using q-parametrization. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 5290-5295.	0.4	2
51	The effect of viscosity in a tracking regulation problem for a counter-flow heat exchanger. , 2015, , .		2
52	Augmented Lagrangian-based preconditioners for steady buoyancy driven flow. Applied Mathematics Letters, 2018, 82, 1-7.	2.7	2
53	Fracture model reduction and optimization for Forchheimer flows in reservoirs. Journal of Mathematical Physics, 2019, 60, 051504.	1.1	2
54	Field-of-values analysis of preconditioned linearized Rayleigh–Bénard convection problems. Journal of Computational and Applied Mathematics, 2020, 369, 112582.	2.0	2

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#	Article	IF	CITATIONS
55	Geometric model of the fracture as a manifold immersed in porous media. Journal of Mathematical Physics, 2021, 62, .	1.1	2
56	A New Method of Evaluating the Productivity Index for Nonlinear Flows. , 2007, , .		2
57	Stability analysis of inhomogeneous equilibrium for axially and transversely excited nonlinear beam. Communications on Pure and Applied Analysis, 2011, 10, 1447-1462.	0.8	2
58	New Advances in the Study of Generalized Willmore Surfaces and Flow. Geometry, Integrability and Quantization, 2016, 17, 133-142.	0.2	2
59	Tumor ablation due to inhomogeneous anisotropic diffusion in generic three-dimensional topologies. Physical Review E, 2020, 102, 062425.	2.1	2
60	Distributed Computational Method for Coupled Fluid Structure Thermal Interaction Applications. Journal of Algorithms and Computational Technology, 2010, 4, 291-309.	0.7	1
61	Regulation of a controlled Burgers' equation: Tracking and disturbance rejection for general time dependent signals. , 2013, , .		1
62	Well productivity index for compressible fluids and gases. Evolution Equations and Control Theory, 2016, 5, 1-36.	1.3	1
63	MULTIGRID SOLVER WITH DOMAIN DECOMPOSITION SMOOTHING FOR STEADY-STATE INCOMPRESSIBLE FSI PROBLEMS. , 2015, , .		1
64	Stability analysis of non-linear plates coupled with Darcy flows. Evolution Equations and Control Theory, 2013, 2, 193-232.	1.3	1
65	Accurate Approximate Regulation of Nonlinear Delay Differential Control Systems. , 2021, , .		1
66	A Multilevel Domain Decomposition Methodology for Solving Coupled Problems in Fluid-Structure-Thermal Interaction. , 2006, , 417-417.		1
67	CFD analysis and overheating control of a turbine. International Journal of Thermal Sciences, 2004, 43, 1119-1124.	4.9	0
68	Analysis of the Error for Harmonic Tracking Using an Iterative Scheme in Geometric Control. Geometry, Integrability and Quantization, 2016, 17, 143-171.	0.2	0
69	Quaternionic remeshing during surface evolution. AIP Conference Proceedings, 2022, , .	0.4	0