XesÃºs Nogueira

List of Publications by Year
in descending order

42 papers	1,301 citations	430442 18 h-index	344852 36 g-index
46 all docs	46 docs citations	46 times ranked	1147 citing authors

#	Article	IF	Citations
1	A new shock-capturing technique based on Moving Least Squares for higher-order numerical schemes on unstructured grids. Computer Methods in Applied Mechanics and Engineering, 2010, 199, 2544-2558.	3.4	283
2	Isogeometric analysis of the isothermal Navierâ€“Stokesâ€“Korteweg equations. Computer Methods in Applied Mechanics and Engineering, 2010, 199, 1828-1840.	3.4	191
3	An unconditionally energy-stable method for the phase field crystal equation. Computer Methods in Applied Mechanics and Engineering, 2012, 249-252, 52-61.	3.4	126
4	Finite volume solvers and Moving Least-Squares approximations for the compressible Navierâ€“Stokes equations on unstructured grids. Computer Methods in Applied Mechanics and Engineering, 2007, 196, 4712-4736.	3.4	77
5	Smoothed Particle Hydrodynamics: A consistent model for interfacial multiphase fluid flow simulations. Journal of Computational Physics, 2018, 358, 53-87.	1.9	56
6	A new spaceâ€“time discretization for the Swiftâ€“Hohenberg equation that strictly respects the Lyapunov functional. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 4930-4946.	1.7	49
7	New high-resolution-preserving sliding mesh techniques for higher-order finite volume schemes. Computers and Fluids, 2015, 118, 114-130.	1.3	37
8	High-accurate SPH method with Multidimensional Optimal Order Detection limiting. Computer Methods in Applied Mechanics and Engineering, 2016, 310, 134-155.	3.4	34
9	Experimental and computational modeling of oscillatory flow within a baffled tube containing periodic-tri-orifice baffle geometries. Computers and Chemical Engineering, 2013, 49, 1-17.	2.0	31
10	A new higher-order finite volume method based on Moving Least Squares for the resolution of the incompressible Navierâ€“Stokes equations on unstructured grids. Computer Methods in Applied Mechanics and Engineering, 2014, 278, 883-901.	3.4	28
11	WENO schemes on unstructured meshes using a relaxed a posteriori MOOD limiting approach. Computer Methods in Applied Mechanics and Engineering, 2020, 363, 112921.	3.4	28
12	On the accuracy of finite volume and discontinuous Galerkin discretizations for compressible flow on unstructured grids. International Journal for Numerical Methods in Engineering, 2009, 78, 1553-1584.	1.5	27
13	On the simulation of wave propagation with a higher-order finite volume scheme based on Reproducing Kernel Methods. Computer Methods in Applied Mechanics and Engineering, 2010, 199, 1471-1490.	3.4	27
14	Toward a higher order unsteady finite volume solver based on reproducing kernel methods. Computer Methods in Applied Mechanics and Engineering, 2011, 200, 2348-2362.	3.4	27
15	UCNS3D: An open-source high-order finite-volume unstructured CFD solver. Computer Physics Communications, 2022, 279, 108453.	3.0	25
16	Accuracy assessment of a high-order moving least squares finite volume method for compressible flows. Computers and Fluids, 2013, 71, 41-53.	1.3	20
17	Resolution of computational aeroacoustics problems on unstructured grids with a higher-order finite volume scheme. Journal of Computational and Applied Mathematics, 2010, 234, 2089-2097.	1.1	19
18	An a posteriori, efficient, high-spectral resolution hybrid finite-difference method for compressible flows. Computer Methods in Applied Mechanics and Engineering, 2018, 335, 91-127.	3.4	19

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19	A high-order density-based finite volume method for the computation of all-speed flows. Computer Methods in Applied Mechanics and Engineering, 2016, 298, 229-251.	3.4	17
20	A Higher-Order Chimera Method for Finite Volume Schemes. Archives of Computational Methods in Engineering, 2018, 25, 691-706.	6.0	17
21	An immersed boundary method for unstructured meshes in depth averaged shallow water models. International Journal for Numerical Methods in Fluids, 2016, 81, 672-688.	0.9	16
22	Multiphase smoothed particle hydrodynamics approach for modeling soilâ€“water interactions. Advances in Water Resources, 2018, 121, 189-205.	1.7	16
23	Very high-order method on immersed curved domains for finite difference schemes with regular Cartesian grids. Computer Methods in Applied Mechanics and Engineering, 2020, 360, 112782.	3.4	15
24	High-Resolution Finite Volume Methods on Unstructured Grids for Turbulence and Aeroacoustics. Archives of Computational Methods in Engineering, 2011, 18, 315-340.	6.0	13
25	Implicit Large Eddy Simulation of non-wall-bounded turbulent flows based on the multiscale properties of a high-order finite volume method. Computer Methods in Applied Mechanics and Engineering, 2010, 199, 615-624.	3.4	12
26	A very accurate Arbitrary Lagrangianâ€“Eulerian meshless method for Computational Aeroacoustics. Computer Methods in Applied Mechanics and Engineering, 2018, 342, 116-141.	3.4	12
27	A reduced-dissipation WENO scheme with automatic dissipation adjustment. Journal of Computational Physics, 2021, 425, 109749.	1.9	12
28	Improved Î´-SPH Scheme with Automatic and Adaptive Numerical Dissipation. Water (Switzerland), 2020, 12, 2858.	1.2	11
29	Moving Kriging reconstruction for high-order finite volume computation of compressible flows. Computer Methods in Applied Mechanics and Engineering, 2013, 253, 463-478.	3.4	9
30	Comprehensive Model for Fatigue Analysis of Flexible Pavements considering Effects of Dynamic Axle Loads. Transportation Research Record, 2015, 2524, 110-118.	1.0	7
31	An a posteriori-implicit turbulent model with automatic dissipation adjustment for Large Eddy Simulation of compressible flows. Computers and Fluids, 2020, 197, 104371.	1.3	7
32	Numerical assessment of fan blades screen effect on fan/OGV interaction tonal noise. Journal of Sound and Vibration, 2020, 481, 115428.	2.1	7
33	SPH-ALE Scheme for Weakly Compressible Viscous Flow with a Posteriori Stabilization. Water (Switzerland), 2021, 13, 245.	1.2	7
34	An arbitrary Lagrangian-Eulerian SPH-MLS method for the computation of compressible viscous flows. Journal of Computational Physics, 2022, 464, 111172.	1.9	7
35	Implicit large-Eddy simulation with a moving least squares-based finite volume method. IOP Conference Series: Materials Science and Engineering, 2010, 10, 012235.	0.3	3
36	A Well-Balanced SPH-ALE Scheme for Shallow Water Applications. Journal of Scientific Computing, 2021, 88, 1.	1.1	3

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37	A high-order finite volume method with improved isotherms reconstruction for the computation of multiphase flows using the Navierâ€“Stokesâ€“Korteweg equations. Computers and Mathematics With Applications, 2020, 79, 673-696.	1.4	2
38	A Moving Least Squares-Based High-Order-Preserving Sliding Mesh Technique with No Intersections. Springer Tracts in Mechanical Engineering, 2015, , 27-36.	0.1	1
39	A Higher-Order Finite Volume Method Using Multiresolution Reproducing Kernels. Lecture Notes in Computational Science and Engineering, 2008, , 157-171.	0.1	0
40	An a Posteriori Very Efficient Hybrid Method for Compressible Flows. Springer Tracts in Mechanical Engineering, 2019, , 137-148.	0.1	0
41	A Higher-Order Chimera Method Based on Moving Least Squares. Springer Tracts in Mechanical Engineering, 2019, , 73-82.	0.1	0
42	Isogeometric shape sensitivity analysis. WIT Transactions on the Built Environment, 2012, , .	0.0	0