

# Walter Boscheri

## List of Publications by Year in descending order

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45  
papers

1,207  
citations

331670

21  
h-index

377865

34  
g-index

46  
all docs

46  
docs citations

46  
times ranked

388  
citing authors

#	ARTICLE	IF	CITATIONS
1	A direct Arbitrary-Lagrangian-Eulerian ADER-WENO finite volume scheme on unstructured tetrahedral meshes for conservative and non-conservative hyperbolic systems in 3D. <i>Journal of Computational Physics</i> , 2014, 275, 484-523.	3.8	102
2	Central Weighted ENO Schemes for Hyperbolic Conservation Laws on Fixed and Moving Unstructured Meshes. <i>SIAM Journal of Scientific Computing</i> , 2017, 39, A2564-A2591.	2.8	71
3	Arbitrary-Lagrangian-Eulerian One-Step WENO Finite Volume Schemes on Unstructured Triangular Meshes. <i>Communications in Computational Physics</i> , 2013, 14, 1174-1206.	1.7	69
4	Lagrangian ADER-WENO finite volume schemes on unstructured triangular meshes based on genuinely multidimensional HLL Riemann solvers. <i>Journal of Computational Physics</i> , 2014, 267, 112-138.	3.8	62
5	Arbitrary-Lagrangian-Eulerian Discontinuous Galerkin schemes with a posteriori subcell finite volume limiting on moving unstructured meshes. <i>Journal of Computational Physics</i> , 2017, 346, 449-479.	3.8	61
6	High-order ADER-WENO ALE schemes on unstructured triangular meshes—application of several node solvers to hydrodynamics and magnetohydrodynamics. <i>International Journal for Numerical Methods in Fluids</i> , 2014, 76, 737-778.	1.6	60
7	High order direct Arbitrary-Lagrangian-Eulerian schemes on moving Voronoi meshes with topology changes. <i>Journal of Computational Physics</i> , 2020, 407, 109167.	3.8	59
8	High-order unstructured Lagrangian one-step WENO finite volume schemes for non-conservative hyperbolic systems: Applications to compressible multi-phase flows. <i>Computers and Fluids</i> , 2013, 86, 405-432.	2.5	58
9	Direct Arbitrary-Lagrangian-Eulerian ADER-MOOD finite volume schemes for multidimensional hyperbolic conservation laws. <i>Journal of Computational Physics</i> , 2015, 292, 56-87.	3.8	51
10	An efficient class of WENO schemes with adaptive order for unstructured meshes. <i>Journal of Computational Physics</i> , 2020, 404, 109062.	3.8	45
11	Efficient high order accurate staggered semi-implicit discontinuous Galerkin methods for natural convection problems. <i>Computers and Fluids</i> , 2020, 198, 104399.	2.5	40
12	A semi-implicit scheme for 3D free surface flows with high-order velocity reconstruction on unstructured Voronoi meshes. <i>International Journal for Numerical Methods in Fluids</i> , 2013, 72, 607-631.	1.6	38
13	High order pressure-based semi-implicit IMEX schemes for the 3D Navier-Stokes equations at all Mach numbers. <i>Journal of Computational Physics</i> , 2021, 434, 110206.	3.8	37
14	A structure-preserving staggered semi-implicit finite volume scheme for continuum mechanics. <i>Journal of Computational Physics</i> , 2021, 424, 109866.	3.8	32
15	Theoretical and numerical comparison of hyperelastic and hypoelastic formulations for Eulerian non-linear elastoplasticity. <i>Journal of Computational Physics</i> , 2019, 387, 481-521.	3.8	30
16	Cell centered direct Arbitrary-Lagrangian-Eulerian ADER-WENO finite volume schemes for nonlinear hyperelasticity. <i>Computers and Fluids</i> , 2016, 134-135, 111-129.	2.5	28
17	A second order all Mach number IMEX finite volume solver for the three dimensional Euler equations. <i>Journal of Computational Physics</i> , 2020, 415, 109486.	3.8	28
18	Central WENO Subcell Finite Volume Limiters for ADER Discontinuous Galerkin Schemes on Fixed and Moving Unstructured Meshes. <i>Communications in Computational Physics</i> , 2019, 25, .	1.7	26

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19	High order cell-centered Lagrangian-type finite volume schemes with time-accurate local time stepping on unstructured triangular meshes. <i>Journal of Computational Physics</i> , 2015, 291, 120-150.	3.8	25
20	High order accurate direct Arbitrary-Lagrangian-Eulerian ADER-WENO finite volume schemes on moving curvilinear unstructured meshes. <i>Computers and Fluids</i> , 2016, 136, 48-66.	2.5	24
21	A second-order cell-centered Lagrangian ADER-MOOD finite volume scheme on multidimensional unstructured meshes for hydrodynamics. <i>Journal of Computational Physics</i> , 2018, 358, 103-129.	3.8	23
22	An efficient second order all Mach finite volume solver for the compressible Navier-Stokes equations. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 374, 113602.	6.6	21
23	High order direct Arbitrary-Lagrangian-Eulerian (ALE) PP schemes with WENO Adaptive-Order reconstruction on unstructured meshes. <i>Journal of Computational Physics</i> , 2019, 398, 108899.	3.8	20
24	Spatial spread of COVID-19 outbreak in Italy using multiscale kinetic transport equations with uncertainty. <i>Mathematical Biosciences and Engineering</i> , 2021, 18, 7028-7059.	1.9	18
25	Modeling and simulating the spatial spread of an epidemic through multiscale kinetic transport equations. <i>Mathematical Models and Methods in Applied Sciences</i> , 2021, 31, 1059-1097.	3.3	18
26	High Order Accurate Direct Arbitrary-Lagrangian-Eulerian ADER-MOOD Finite Volume Schemes for Non-Conservative Hyperbolic Systems with Stiff Source Terms. <i>Communications in Computational Physics</i> , 2017, 21, 271-312.	1.7	16
27	An Efficient Quadrature-Free Formulation for High Order Arbitrary-Lagrangian-Eulerian ADER-WENO Finite Volume Schemes on Unstructured Meshes. <i>Journal of Scientific Computing</i> , 2016, 66, 240-274.	2.3	15
28	Simulation of non-Newtonian viscoplastic flows with a unified first order hyperbolic model and a structure-preserving semi-implicit scheme. <i>Computers and Fluids</i> , 2021, 224, 104963.	2.5	15
29	High Order Direct Arbitrary-Lagrangian-Eulerian (ALE) Finite Volume Schemes for Hyperbolic Systems on Unstructured Meshes. <i>Archives of Computational Methods in Engineering</i> , 2017, 24, 751-801.	10.2	14
30	High-order divergence-free velocity reconstruction for free surface flows on unstructured Voronoi meshes. <i>International Journal for Numerical Methods in Fluids</i> , 2019, 90, 296-321.	1.6	14
31	High order central WENO-Implicit-Explicit Runge Kutta schemes for the BGK model on general polygonal meshes. <i>Journal of Computational Physics</i> , 2020, 422, 109766.	3.8	14
32	A space-time semi-Lagrangian advection scheme on staggered Voronoi meshes applied to free surface flows. <i>Computers and Fluids</i> , 2020, 202, 104503.	2.5	11
33	A high-order parallel Eulerian-Lagrangian algorithm for advection-diffusion problems on unstructured meshes. <i>International Journal for Numerical Methods in Fluids</i> , 2019, 91, 332-347.	1.6	9
34	High order finite volume schemes with IMEX time stepping for the Boltzmann model on unstructured meshes. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 387, 114180.	6.6	8
35	A 3D cell-centered ADER MOOD Finite Volume method for solving updated Lagrangian hyperelasticity on unstructured grids. <i>Journal of Computational Physics</i> , 2022, 449, 110779.	3.8	8
36	An efficient high order direct ALE ADER finite volume scheme with a posteriori limiting for hydrodynamics and magnetohydrodynamics. <i>International Journal for Numerical Methods in Fluids</i> , 2017, 84, 76-106.	1.6	7

#	ARTICLE	IF	CITATIONS
37	A cell-centered implicit-explicit Lagrangian scheme for a unified model of nonlinear continuum mechanics on unstructured meshes. <i>Journal of Computational Physics</i> , 2022, 451, 110852.	3.8	7
38	An efficient numerical scheme for the thermo-hydraulic simulations of thermal grids. <i>International Journal of Heat and Mass Transfer</i> , 2020, 161, 120304.	4.8	6
39	Curl Constraint-Preserving Reconstruction and the Guidance it Gives for Mimetic Scheme Design. <i>Communications on Applied Mathematics and Computation</i> , 2023, 5, 235-294.	1.7	5
40	High order modal Discontinuous Galerkin Implicit-Explicit Runge Kutta and Linear Multistep schemes for the Boltzmann model on general polygonal meshes. <i>Computers and Fluids</i> , 2022, 233, 105224.	2.5	4
41	FORCE schemes on moving unstructured meshes for hyperbolic systems. <i>Computers and Mathematics With Applications</i> , 2019, 78, 362-380.	2.7	2
42	A High-Order Conservative Semi-Lagrangian Solver for 3D Free Surface Flows with Sediment Transport on Voronoi Meshes. <i>Communications on Applied Mathematics and Computation</i> , 2023, 5, 596-637.	1.7	2
43	On the Construction of Conservative Semi-Lagrangian IMEX Advection Schemes for Multiscale Time Dependent PDEs. <i>Journal of Scientific Computing</i> , 2022, 90, 1.	2.3	2
44	A mass-conservative semi-implicit volume of fluid method for the Navier-Stokes equations with high order semi-Lagrangian advection scheme. <i>Computers and Fluids</i> , 2022, 240, 105443.	2.5	1
45	High order Finite Difference/Discontinuous Galerkin schemes for the incompressible Navier-Stokes equations with implicit viscosity. <i>Communications in Applied and Industrial Mathematics</i> , 2022, 13, 21-38.	0.3	1