

# Walter Boscheri

## List of Publications by Year in descending order

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45  
papers

1,207  
citations

331538

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377752

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docs citations

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times ranked

388  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	0.7	2
2	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.	0.7	5
3	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.	1.9	8
4	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.	1.3	4
5	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.	1.9	7
6	On the Construction of Conservative Semi-Lagrangian IMEX Advection Schemes for Multiscale Time Dependent PDEs. <i>Journal of Scientific Computing</i> , 2022, 90, 1.	1.1	2
7	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.	1.3	1
8	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.	0.6	1
9	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.	3.4	21
10	A structure-preserving staggered semi-implicit finite volume scheme for continuum mechanics. <i>Journal of Computational Physics</i> , 2021, 424, 109866.	1.9	32
11	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.	1.0	18
12	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.	1.7	18
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.	1.9	37
14	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.	1.3	15
15	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.	3.4	8
16	An efficient class of WENO schemes with adaptive order for unstructured meshes. <i>Journal of Computational Physics</i> , 2020, 404, 109062.	1.9	45
17	Efficient high order accurate staggered semi-implicit discontinuous Galerkin methods for natural convection problems. <i>Computers and Fluids</i> , 2020, 198, 104399.	1.3	40
18	High order direct Arbitrary-Lagrangian-Eulerian schemes on moving Voronoi meshes with topology changes. <i>Journal of Computational Physics</i> , 2020, 407, 109167.	1.9	59

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19	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.	1.9	14
20	An efficient numerical scheme for the thermo-hydraulic simulations of thermal grids. <i>International Journal of Heat and Mass Transfer</i> , 2020, 161, 120304.	2.5	6
21	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.	1.9	28
22	A space-time semi-Lagrangian advection scheme on staggered Voronoi meshes applied to free surface flows. <i>Computers and Fluids</i> , 2020, 202, 104503.	1.3	11
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.	1.9	20
24	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.	0.9	9
25	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.	0.9	14
26	Theoretical and numerical comparison of hyperelastic and hypoelastic formulations for Eulerian non-linear elastoplasticity. <i>Journal of Computational Physics</i> , 2019, 387, 481-521.	1.9	30
27	FORCE schemes on moving unstructured meshes for hyperbolic systems. <i>Computers and Mathematics With Applications</i> , 2019, 78, 362-380.	1.4	2
28	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, .	0.7	26
29	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.	1.9	23
30	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.	0.9	7
31	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.	0.7	16
32	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.	1.3	71
33	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.	1.9	61
34	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.	6.0	14
35	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.	1.3	24
36	Cell centered direct Arbitrary-Lagrangian-Eulerian ADER-WENO finite volume schemes for nonlinear hyperelasticity. <i>Computers and Fluids</i> , 2016, 134-135, 111-129.	1.3	28

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37	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.	1.1	15
38	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.	1.9	25
39	Direct Arbitrary-Lagrangian-Eulerian ADER-MOOD finite volume schemes for multidimensional hyperbolic conservation laws. <i>Journal of Computational Physics</i> , 2015, 292, 56-87.	1.9	51
40	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.	0.9	60
41	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.	1.9	62
42	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.	1.9	102
43	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.	0.9	38
44	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.	1.3	58
45	Arbitrary-Lagrangian-Eulerian One-Step WENO Finite Volume Schemes on Unstructured Triangular Meshes. <i>Communications in Computational Physics</i> , 2013, 14, 1174-1206.	0.7	69