

Vincenzo Casulli

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3544105/publications.pdf>

Version: 2024-02-01

42
papers

2,998
citations

331670

21
h-index

315739

38
g-index

42
all docs

42
docs citations

42
times ranked

1351
citing authors

#	ARTICLE	IF	CITATIONS
1	Computational grid, subgrid, and pixels. International Journal for Numerical Methods in Fluids, 2019, 90, 140-155.	1.6	15
2	A coupled surface–subsurface model for hydrostatic flows under saturated and variably saturated conditions. International Journal for Numerical Methods in Fluids, 2017, 85, 449-464.	1.6	15
3	A conservative, weakly nonlinear semi-implicit finite volume scheme for the compressible Navier–Stokes equations with general equation of state. Applied Mathematics and Computation, 2016, 272, 479-497.	2.2	43
4	A conservative semi-implicit method for coupled surface–subsurface flows in regional scale. International Journal for Numerical Methods in Fluids, 2015, 79, 199-214.	1.6	20
5	An efficient semi-implicit method for three-dimensional non-hydrostatic flows in compliant arterial vessels. International Journal for Numerical Methods in Biomedical Engineering, 2014, 30, 1170-1198.	2.1	18
6	A semi-implicit numerical method for the free-surface Navier–Stokes equations. International Journal for Numerical Methods in Fluids, 2014, 74, 605-622.	1.6	46
7	High resolution methods for scalar transport problems in compliant systems of arteries. Applied Numerical Mathematics, 2013, 74, 62-82.	2.1	11
8	A semi-implicit numerical model for urban drainage systems. International Journal for Numerical Methods in Fluids, 2013, 73, 600-614.	1.6	26
9	A staggered semi-implicit spectral discontinuous Galerkin scheme for the shallow water equations. Applied Mathematics and Computation, 2013, 219, 8057-8077.	2.2	55
10	Iterative solutions of mildly nonlinear systems. Journal of Computational and Applied Mathematics, 2012, 236, 3937-3947.	2.0	42
11	Semi-implicit numerical modeling of axially symmetric flows in compliant arterial systems. International Journal for Numerical Methods in Biomedical Engineering, 2012, 28, 257-272.	2.1	35
12	Semi-implicit subgrid modelling of three-dimensional free-surface flows. International Journal for Numerical Methods in Fluids, 2011, 67, 441-449.	1.6	87
13	A Nested Newton-Type Algorithm for Finite Volume Methods Solving Richards' Equation in Mixed Form. SIAM Journal of Scientific Computing, 2010, 32, 2255-2273.	2.8	75
14	A high-resolution wetting and drying algorithm for free-surface hydrodynamics. International Journal for Numerical Methods in Fluids, 2009, 60, 391-408.	1.6	161
15	Iterative Solution of Piecewise Linear Systems and Applications to Flows in Porous Media. SIAM Journal of Scientific Computing, 2009, 31, 1858-1873.	2.8	51
16	Iterative Solution of Piecewise Linear Systems. SIAM Journal of Scientific Computing, 2008, 30, 463-472.	2.8	73
17	Comparing analytical and numerical solution of nonlinear two and three-dimensional hydrostatic flows. International Journal for Numerical Methods in Fluids, 2007, 53, 1049-1062.	1.6	14
18	High resolution methods for multidimensional advection–diffusion problems in free-surface hydrodynamics. Ocean Modelling, 2005, 10, 137-151.	2.4	95

#	ARTICLE	IF	CITATIONS
19	Modeling a Three-dimensional River Plume over Continental Shelf Using a 3D Unstructured Grid Model. , 2004, , 1027.		6
20	Evaluation of the UnTRIM Model for 3-D Tidal Circulation. , 2002, , 628.		8
21	An unstructured grid, three-dimensional model based on the shallow water equations. International Journal for Numerical Methods in Fluids, 2000, 32, 331-348.	1.6	301
22	A semi-implicit finite difference method for non-hydrostatic, free-surface flows. International Journal for Numerical Methods in Fluids, 1999, 30, 425-440.	1.6	273
23	A semi-implicit finite difference method for non-hydrostatic, free-surface flows. International Journal for Numerical Methods in Fluids, 1999, 30, 425-440.	1.6	3
24	A semi-implicit method for vertical transport in multidimensional models. International Journal for Numerical Methods in Fluids, 1998, 28, 157-186.	1.6	27
25	Numerical Simulation of 3D Quasi-Hydrostatic, Free-Surface Flows. Journal of Hydraulic Engineering, 1998, 124, 678-686.	1.5	207
26	Numerical simulation of three-dimensional free surface flow in isopycnal co-ordinates. International Journal for Numerical Methods in Fluids, 1997, 25, 645-658.	1.6	19
27	Tidal, Residual, Intertidal Mudflat (TRIM) Model and its Applications to San Francisco Bay, California. Estuarine, Coastal and Shelf Science, 1993, 36, 235-280.	2.1	185
28	Dispersion in tidally-averaged transport equation. Coastal and Estuarine Studies, 1992, , 409-428.	0.4	4
29	Simulation of a planar combustion wave. Mathematics and Computers in Simulation, 1992, 34, 365-373.	4.4	2
30	Semi-implicit finite difference methods for three-dimensional shallow water flow. International Journal for Numerical Methods in Fluids, 1992, 15, 629-648.	1.6	492
31	Semi-implicit finite difference methods for the two-dimensional shallow water equations. Journal of Computational Physics, 1990, 86, 56-74.	3.8	344
32	Stability analysis of Eulerian-Lagrangian methods for the one-dimensional shallow-water equations. Applied Mathematical Modelling, 1990, 14, 122-131.	4.2	12
33	Eulerian-Lagrangian methods for the Navier-Stokes equations at high Reynolds number. International Journal for Numerical Methods in Fluids, 1988, 8, 1349-1360.	1.6	18
34	Particle modelling of an elastic arch. Applied Mathematical Modelling, 1985, 9, 215-219.	4.2	6
35	Eulerian-Lagrangian Solution of the Convection-Dispersion Equation in Natural Coordinates. Water Resources Research, 1984, 20, 944-952.	4.2	102
36	On Lagrangian residual currents with applications in south San Francisco Bay, California. Water Resources Research, 1982, 18, 1652-1662.	4.2	91

#	ARTICLE	IF	CITATIONS
37	Numerical simulation of free-surface thermally influenced flows for nonhomogeneous fluids. Applied Mathematics and Computation, 1981, 8, 261-280.	2.2	4
38	Multipoint iterative parallel methods for solving equations. Calcolo, 1978, 15, 147-160.	1.1	0
39	Computational complexity for a class of multipoint iterative procedures without or with internal memory. Calcolo, 1977, 14, 225-235.	1.1	1
40	The convergence order for iterative multipoint procedures. Calcolo, 1977, 14, 25-44.	1.1	9
41	Sui procedimenti iterativi composti. Calcolo, 1976, 13, 403-420.	1.1	2
42	A review on advanced numerical methods for free-surface hydrodynamics. Annali Dell'Universita Di Ferrara, 0, , .	1.3	0