

M Elena Elena Vázquez-Cendán

List of Publications by Year in descending order

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29
papers

2,866
citations

430874

18
h-index

477307

29
g-index

29
all docs

29
docs citations

29
times ranked

1204
citing authors

#	ARTICLE	IF	CITATIONS
1	Upwind methods for hyperbolic conservation laws with source terms. <i>Computers and Fluids</i> , 1994, 23, 1049-1071.	2.5	828
2	Improved Treatment of Source Terms in Upwind Schemes for the Shallow Water Equations in Channels with Irregular Geometry. <i>Journal of Computational Physics</i> , 1999, 148, 497-526.	3.8	384
3	A numerical model for the flooding and drying of irregular domains. <i>International Journal for Numerical Methods in Fluids</i> , 2002, 39, 247-275.	1.6	253
4	On numerical treatment of the source terms in the shallow water equations. <i>Computers and Fluids</i> , 2000, 29, 951-979.	2.5	216
5	Zero mass error using unsteady wetting“drying conditions in shallow flows over dry irregular topography. <i>International Journal for Numerical Methods in Fluids</i> , 2004, 45, 1047-1082.	1.6	175
6	Upwind schemes for the two-dimensional shallow water equations with variable depth using unstructured meshes. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1998, 155, 49-72.	6.6	159
7	Flux splitting schemes for the Euler equations. <i>Computers and Fluids</i> , 2012, 70, 1-12.	2.5	119
8	The numerical treatment of wet/dry fronts in shallow flows: application to one-layer and two-layer systems. <i>Mathematical and Computer Modelling</i> , 2005, 42, 419-439.	2.0	108
9	Depth Averaged Modelling of Turbulent Shallow Water Flow with Wet-Dry Fronts. <i>Archives of Computational Methods in Engineering</i> , 2007, 14, 303-341.	10.2	92
10	Numerical simulation of two-layer shallow water flows through channels with irregular geometry. <i>Journal of Computational Physics</i> , 2004, 195, 202-235.	3.8	84
11	Unstructured finite volume discretisation of bed friction and convective flux in solute transport models linked to the shallow water equations. <i>Journal of Computational Physics</i> , 2012, 231, 3317-3339.	3.8	64
12	Application of Several Depth-Averaged Turbulence Models to Simulate Flow in Vertical Slot Fishways. <i>Journal of Hydraulic Engineering</i> , 2007, 133, 160-172.	1.5	62
13	A projection hybrid high order finite volume/finite element method for incompressible turbulent flows. <i>Journal of Computational Physics</i> , 2018, 353, 169-192.	3.8	42
14	Numerical modelling of tidal flows in complex estuaries including turbulence: an unstructured finite volume solver and experimental validation. <i>International Journal for Numerical Methods in Engineering</i> , 2006, 67, 1909-1932.	2.8	41
15	A staggered semi-implicit hybrid FV/FE projection method for weakly compressible flows. <i>Journal of Computational Physics</i> , 2020, 421, 109743.	3.8	36
16	A projection hybrid finite volume/element method for low-Mach number flows. <i>Journal of Computational Physics</i> , 2014, 271, 360-378.	3.8	29
17	Design and analysis of ADER-type schemes for model advection“diffusion“reaction equations. <i>Journal of Computational Physics</i> , 2016, 327, 553-575.	3.8	28
18	Numerical solution of non-isothermal non-adiabatic flow of real gases in pipelines. <i>Journal of Computational Physics</i> , 2016, 323, 126-148.	3.8	23

#	ARTICLE	IF	CITATIONS
19	Treating network junctions in finite volume solution of transient gas flow models. Journal of Computational Physics, 2017, 344, 187-209.	3.8	19
20	A semi-implicit hybrid finite volume/finite element scheme for all Mach number flows on staggered unstructured meshes. Applied Mathematics and Computation, 2021, 402, 126117.	2.2	17
21	Finite volume methods for multi-component Euler equations with source terms. Computers and Fluids, 2017, 156, 113-134.	2.5	16
22	Experimental and numerical analysis of solitary waves generated by bed and boundary movements. International Journal for Numerical Methods in Fluids, 2004, 46, 793-813.	1.6	15
23	POD Galerkin reduced order methods for combined Navier-Stokes transport equations based on a hybrid FV-FE solver. Computers and Mathematics With Applications, 2020, 79, 256-273.	2.7	15
24	Analysis of a new Kolgan-type scheme motivated by the shallow water equations. Applied Numerical Mathematics, 2012, 62, 489-506.	2.1	12
25	On the exact solution of the Riemann problem for blood flow in human veins, including collapse. Applied Mathematics and Computation, 2017, 303, 178-189.	2.2	12
26	Simulación numérica de inundaciones en Villahermosa México usando el código IBER. Ingenieria Del Agua, 2016, 20, 201.	0.4	8
27	Solving Hyperbolic Equations with Finite Volume Methods. Unitext, 2015, , .	0.1	7
28	Exact solution of some hyperbolic systems with source terms. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2003, 459, 263-271.	2.1	1
29	Reprint of: Finite volume methods for multi-component Euler equations with source terms. Computers and Fluids, 2018, 169, 40-61.	2.5	1