M Elena Elena Vázquez-Cendón

List of Publications by Year
in descending order

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	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
2	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
3	A staggered semi-implicit hybrid FV/FE projection method for weakly compressible flows. Journal of Computational Physics, 2020, 421, 109743.	3.8	36
4	Reprint of: Finite volume methods for multi-component Euler equations with source terms. Computers and Fluids, 2018, 169, 40-61.	2.5	1
5	A projection hybrid high order finite volume/finite element method for incompressible turbulent flows. Journal of Computational Physics, 2018, 353, 169-192.	3.8	42
6	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
7	Treating network junctions in finite volume solution of transient gas flow models. Journal of Computational Physics, 2017, 344, 187-209.	3.8	19
8	Finite volume methods for multi-component Euler equations with source terms. Computers and Fluids, 2017, 156, 113-134.	2.5	16
9	Design and analysis of ADER-type schemes for model advection–diffusion–reaction equations. Journal of Computational Physics, 2016, 327, 553-575.	3.8	28
10	Numerical solution of non-isothermal non-adiabatic flow of real gases in pipelines. Journal of Computational Physics, 2016, 323, 126-148.	3.8	23
11	Simulación numérica de inundaciones en Villahermosa México usando el código IBER. Ingeniería Del Agua, 2016, 20, 201.	0.4	8
12	Solving Hyperbolic Equations with Finite Volume Methods. Unitext, 2015, , .	0.1	7
13	A projection hybrid finite volume/element method for low-Mach number flows. Journal of Computational Physics, 2014, 271, 360-378.	3.8	29
14	Flux splitting schemes for the Euler equations. Computers and Fluids, 2012, 70, 1-12.	2.5	119
15	Analysis of a new Kolgan-type scheme motivated by the shallow water equations. Applied Numerical Mathematics, 2012, 62, 489-506.	2.1	12
16	Unstructured finite volume discretisation of bed friction and convective flux in solute transport models linked to the shallow water equations. Journal of Computational Physics, 2012, 231, 3317-3339.	3.8	64
17	Application of Several Depth-Averaged Turbulence Models to Simulate Flow in Vertical Slot Fishways. Journal of Hydraulic Engineering, 2007, 133, 160-172.	1.5	62
18	Depth Averaged Modelling of Turbulent Shallow Water Flow with Wet-Dry Fronts. Archives of Computational Methods in Engineering, 2007, 14, 303-341.	10.2	92

#	Article	IF	Citations
19	Numerical modelling of tidal flows in complex estuaries including turbulence: an unstructured finite volume solver and experimental validation. International Journal for Numerical Methods in Engineering, 2006, 67, 1909-1932.	2.8	41
20	The numerical treatment of wet/dry fronts in shallow flows: application to one-layer and two-layer systems. Mathematical and Computer Modelling, 2005, 42, 419-439.	2.0	108
21	Zero mass error using unsteady wetting–drying conditions in shallow flows over dry irregular topography. International Journal for Numerical Methods in Fluids, 2004, 45, 1047-1082.	1.6	175
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	Numerical simulation of two-layer shallow water flows through channels with irregular geometry. Journal of Computational Physics, 2004, 195, 202-235.	3.8	84
24	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
25	A numerical model for the flooding and drying of irregular domains. International Journal for Numerical Methods in Fluids, 2002, 39, 247-275.	1.6	253
26	On numerical treatment of the source terms in the shallow water equations. Computers and Fluids, 2000, 29, 951-979.	2.5	216
27	Improved Treatment of Source Terms in Upwind Schemes for the Shallow Water Equations in Channels with Irregular Geometry. Journal of Computational Physics, 1999, 148, 497-526.	3.8	384
28	Upwind schemes for the two-dimensional shallow water equations with variable depth using unstructured meshes. Computer Methods in Applied Mechanics and Engineering, 1998, 155, 49-72.	6.6	159
29	Upwind methods for hyperbolic conservation laws with source terms. Computers and Fluids, 1994, 23, 1049-1071.	2.5	828