

# JosÃ© MarÃ­a Gallardo Molina

## List of Publications by Year in descending order

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25  
papers

758  
citations

840776

11  
h-index

888059

17  
g-index

27  
all docs

27  
docs citations

27  
times ranked

435  
citing authors

#	ARTICLE	IF	CITATIONS
1	High order finite volume schemes based on reconstruction of states for solving hyperbolic systems with nonconservative products. Applications to shallow-water systems. <i>Mathematics of Computation</i> , 2006, 75, 1103-1135.	2.1	230
2	On a well-balanced high-order finite volume scheme for shallow water equations with topography and dry areas. <i>Journal of Computational Physics</i> , 2007, 227, 574-601.	3.8	171
3	Second-Order Differential Operators with Integral Boundary Conditions and Generation of Analytic Semigroups. <i>Rocky Mountain Journal of Mathematics</i> , 2000, 30, 1265.	0.4	75
4	Well-Balanced High Order Extensions of Godunov's Method for Semilinear Balance Laws. <i>SIAM Journal on Numerical Analysis</i> , 2008, 46, 1012-1039.	2.3	72
5	GPU computing for shallow water flow simulation based on finite volume schemes. <i>Comptes Rendus - Mecanique</i> , 2011, 339, 165-184.	2.1	56
6	Approximate Osher-Solomon schemes for hyperbolic systems. <i>Applied Mathematics and Computation</i> , 2016, 272, 347-368.	2.2	34
7	A Class of Incomplete Riemann Solvers Based on Uniform Rational Approximations to the Absolute Value Function. <i>Journal of Scientific Computing</i> , 2014, 60, 363-389.	2.3	29
8	Two-Dimensional Compact Third-Order Polynomial Reconstructions. Solving Nonconservative Hyperbolic Systems Using GPUs. <i>Journal of Scientific Computing</i> , 2011, 48, 141-163.	2.3	19
9	Efficient numerical schemes for viscoplastic avalanches. Part 1: The 1D case. <i>Journal of Computational Physics</i> , 2014, 264, 55-90.	3.8	15
10	Multidimensional approximate Riemann solvers for hyperbolic nonconservative systems. Applications to shallow water systems. <i>Journal of Computational Physics</i> , 2021, 444, 110547.	3.8	15
11	On a class of two-dimensional incomplete Riemann solvers. <i>Journal of Computational Physics</i> , 2019, 386, 541-567.	3.8	14
12	Generation of Analytic Semi-Groups by Second-Order Differential Operators with Nonseparated Boundary Conditions. <i>Rocky Mountain Journal of Mathematics</i> , 2000, 30, 869.	0.4	7
13	Jacobian-free approximate solvers for hyperbolic systems: Application to relativistic magnetohydrodynamics. <i>Computer Physics Communications</i> , 2017, 219, 108-120.	7.5	7
14	A generalized duality method for solving variational inequalities Applications to some nonlinear Dirichlet problems. <i>Numerische Mathematik</i> , 2005, 100, 259-291.	1.9	5
15	Efficient numerical schemes for viscoplastic avalanches. Part 2: The 2D case. <i>Journal of Computational Physics</i> , 2018, 353, 460-490.	3.8	3
16	Efficient GPU Implementation of Multidimensional Incomplete Riemann Solvers for Hyperbolic Nonconservative Systems: Applications to Shallow Water Systems with Topography and Dry Areas. <i>Journal of Scientific Computing</i> , 2022, 92, .	2.3	3
17	Generation of Analytic Semigroups by Differential Operators with Mixed Boundary Conditions. <i>Rocky Mountain Journal of Mathematics</i> , 2003, 33, 831.	0.4	2
18	Second-order odes with non-separated boundary conditions and generation of analytic semigroups. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 1997, 30, 4991-4994.	1.1	0

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19	Differential operators with mixed boundary conditions: generation of analytic semigroups. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2001, 47, 1333-1344.	1.1	0
20	Jacobian-Free Incomplete Riemann Solvers. <i>Springer Proceedings in Mathematics and Statistics</i> , 2018, , 295-307.	0.2	0
21	On a class of genuinely 2D incomplete Riemann solvers for hyperbolic systems. <i>Computational and Mathematical Methods</i> , 2020, 2, e1074.	0.8	0
22	Incomplete Riemann Solvers Based on Functional Approximations to the Absolute Value Function. <i>SEMA SIMAI Springer Series</i> , 2021, , 3-27.	0.7	0
23	Methods and models for biomedical problems. , 2012, , 349-382.		0
24	Approximate Osher-Solomon Schemes for Hyperbolic Systems. <i>SEMA SIMAI Springer Series</i> , 2016, , 1-16.	0.7	0
25	New Types of Jacobian-Free Approximate Riemann Solvers for Hyperbolic Systems. <i>Springer Proceedings in Mathematics and Statistics</i> , 2017, , 23-31.	0.2	0