

Gonzalo Rubio Calzado

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

398
citations

759233

12
h-index

794594

19
g-index

34
all docs

34
docs citations

34
times ranked

157
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | A functional oriented truncation error adaptation method. Journal of Computational Physics, 2022, 451, 110883. | 3.8 | 4 |
| 2 | An entropyâ€‘stable pâ€‘adaptive nodal discontinuous Galerkin for the coupled Navierâ€‘Stokes/Cahnâ€‘Hilliard system. Journal of Computational Physics, 2022, 458, 111093. | 3.8 | 3 |
| 3 | Highâ€‘order discontinuous Galerkin approximation for a threeâ€‘phase incompressible Navierâ€‘Stokes/Cahnâ€‘Hilliard model. Computers and Fluids, 2022, , 105545. | 2.5 | 0 |
| 4 | A statically condensed discontinuous Galerkin spectral element method on Gauss-Lobatto nodes for the compressible Navier-Stokes equations. Journal of Computational Physics, 2021, 426, 109953. | 3.8 | 5 |
| 5 | Mathematical modeling of nitrogen-pressurized Halon flow in fire extinguishing systems. Fire Safety Journal, 2021, 122, 103356. | 3.1 | 8 |
| 6 | A discontinuous Galerkin approximation for a wallâ€‘bounded consistent threeâ€‘component Cahnâ€‘Hilliard flow model. Computers and Fluids, 2021, 225, 104971. | 2.5 | 2 |
| 7 | CFDâ€‘based erosion and corrosion modeling in pipelines using a highâ€‘order discontinuous Galerkin multiphase solver. Wear, 2021, 478-479, 203882. | 3.1 | 1 |
| 8 | A freeâ€‘energy stable pâ€‘adaptive nodal discontinuous Galerkin for the Cahnâ€‘Hilliard equation. Journal of Computational Physics, 2021, 442, 110409. | 3.8 | 6 |
| 9 | Multi-physics methodology for phase change due to rapidly depressurised two-phase flows. International Journal of Multiphase Flow, 2021, 144, 103788. | 3.4 | 1 |
| 10 | A freeâ€‘energy stable nodal discontinuous Galerkin approximation with summationâ€‘byâ€‘parts property for the Cahnâ€‘Hilliard equation. Journal of Computational Physics, 2020, 403, 109072. | 3.8 | 16 |
| 11 | Entropyâ€‘stable discontinuous Galerkin approximation with summationâ€‘byâ€‘parts property for the incompressible Navierâ€‘Stokes/Cahnâ€‘Hilliard system. Journal of Computational Physics, 2020, 408, 109363. | 3.8 | 15 |
| 12 | Advantages of static condensation in implicit compressible Navierâ€‘Stokes DGSEM solvers. Computers and Fluids, 2020, 209, 104646. | 2.5 | 5 |
| 13 | Design of a Smagorinsky spectral Vanishing Viscosity turbulence model for discontinuous Galerkin methods. Computers and Fluids, 2020, 200, 104440. | 2.5 | 30 |
| 14 | An entropyâ€‘stable discontinuous Galerkin approximation for the incompressible Navierâ€‘Stokes equations with variable density and artificial compressibility. Journal of Computational Physics, 2020, 408, 109241. | 3.8 | 13 |
| 15 | Implicit Large Eddy Simulations for NACA0012 Airfoils Using Compressible and Incompressible Discontinuous Galerkin Solvers. Lecture Notes in Computational Science and Engineering, 2020, , 477-487. | 0.3 | 2 |
| 16 | An Anisotropic p-Adaptation Multigrid Scheme for Discontinuous Galerkin Methods. Lecture Notes in Computational Science and Engineering, 2020, , 549-560. | 0.3 | 0 |
| 17 | A p-multigrid strategy with anisotropic p-adaptation based on truncation errors for high-order discontinuous Galerkin methods. Journal of Computational Physics, 2019, 378, 209-233. | 3.8 | 28 |
| 18 | Truncation Error Estimation in the p-Anisotropic Discontinuous Galerkin Spectral Element Method. Journal of Scientific Computing, 2019, 78, 433-466. | 2.3 | 12 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Improving the stability of multiple-relaxation lattice Boltzmann methods with central moments. Computers and Fluids, 2018, 172, 397-409. | 2.5 | 33 |
| 20 | On the efficiency of the IMPES method for two phase flow problems in porous media. Journal of Petroleum Science and Engineering, 2018, 164, 427-436. | 4.2 | 9 |
| 21 | The Bassi Rebay 1 scheme is a special case of the Symmetric Interior Penalty formulation for discontinuous Galerkin discretisations with Gauss-Lobatto points. Journal of Computational Physics, 2018, 363, 1-10. | 3.8 | 19 |
| 22 | Dispersion-Dissipation Analysis for Advection Problems with Nonconstant Coefficients: Applications to Discontinuous Galerkin Formulations. SIAM Journal of Scientific Computing, 2018, 40, A747-A768. | 2.8 | 24 |
| 23 | Insights on Aliasing Driven Instabilities for Advection Equations with Application to Gauss-Lobatto Discontinuous Galerkin Methods. Journal of Scientific Computing, 2018, 75, 1262-1281. | 2.3 | 19 |
| 24 | Artificial Viscosity Discontinuous Galerkin Spectral Element Method for the Baer-Nunziato Equations. Lecture Notes in Computational Science and Engineering, 2017, , 613-625. | 0.3 | 0 |
| 25 | Comparisons of p-adaptation strategies based on truncation- and discretisation-errors for high order discontinuous Galerkin methods. Computers and Fluids, 2016, 139, 36-46. | 2.5 | 35 |
| 26 | Upwind methods for the Baer-Nunziato equations and higher-order reconstruction using artificial viscosity. Journal of Computational Physics, 2016, 326, 805-827. | 3.8 | 22 |
| 27 | Adaptation strategies for high order discontinuous Galerkin methods based on Tau-estimation. Journal of Computational Physics, 2016, 306, 216-236. | 3.8 | 33 |
| 28 | Quasi-A Priori Truncation Error Estimation in the DGSEM. Journal of Scientific Computing, 2015, 64, 425-455. | 2.3 | 7 |
| 29 | Sensitivity analysis to unsteady perturbations of complex flows: a discrete approach. International Journal for Numerical Methods in Fluids, 2014, 76, 1088-1110. | 1.6 | 19 |
| 30 | Quasi-a priori mesh adaptation and extrapolation to higher order using τ -estimation. Aerospace Science and Technology, 2014, 38, 76-87. | 4.8 | 7 |
| 31 | The Estimation of Truncation Error by τ -Estimation for Chebyshev Spectral Collocation Method. Journal of Scientific Computing, 2013, 57, 146-173. | 2.3 | 10 |
| 32 | Quasi-a priori truncation error estimation and higher order extrapolation for non-linear partial differential equations. Journal of Computational Physics, 2013, 253, 389-404. | 3.8 | 8 |
| 33 | Study of Bubble Growth in a Multicomponent Mixture at High Pressure. , 0, , . | | 2 |