Citas a artículos de investigación del

Dr. Gerardo Hernández Dueñas

Junio 13, 2023

Table 1: Citas a mis artículos en revistas, tesis y proceedings

Artículo	**Citas tipo A**	**Citas Tipo B**	**Citas Tipo C**	**Total**
Artículo JSC 2010	28	0	1	29
Artículo JSC 2011	26	0	4	30
Artículo JFM 2013	17	17	2	36
Artículo M2AN 2014	15	4	3	22
Artículo JFM 2014	11	3	1	15
Artículo JAS 2015	3	9	0	12
Artículo AdvRes 2016	18	2	1	21
Artículo SWTG 2017	3	0	1	4
Artículo QJRMS 2019	0	3	0	3
Artículo IJNMF 2021	4	0	0	4
Artículo AHP 2022	0	1	0	1
Artículo JNLS 2023	1	0	0	1
Artículo M2AN 2023	1	0	0	1
				Total: 179

Abreviación de los artículos citados:

- **Artículo JSC 2010**

  Título: A Hybrid Algorithm for the Baer-Nunziato Model Using the Riemann Invariants

  Autores: Karni, Smadar; Hernandez-Duenas, Gerardo

  Revista: JOURNAL OF SCIENTIFIC COMPUTING Volume: 45 Issue: 1-3 Pages: 382-403

  Año de publicación: OCT 2010

- **Artículo JSC 2011**

  Título: Shallow Water Flows in Channels

Autores: Hernandez-Duenas, G; Karni, S

Revista: JOURNAL OF SCIENTIFIC COMPUTING Volume: 48 Issue: 1-3 Pages: 190-208 DOI: 10.1007/s10915-010-9430-x

Año de publicación: 2011

- **Artículo JFM 2013**

  Título: Minimal models for precipitating turbulent convection

  Autores: Hernandez-Duenas, Gerardo; Majda, Andrew J; Smith, Leslie M; Stechmann, Samuel N

  Revista: Journal of Fluid Mechanics Volume: 717. Pages: 576–611

  Año de publicación: 2013

- **Artículo JFM 2014**.

  Título: Investigation of Boussinesq dynamics using intermediate models based on wave-vortical interactions.

  Autores: G. Hernández-Dueñas, L. M. Smith, and S. N. Stechmann.

  Revista: Journal of Fluid Mechanics. Vol 747 (2014), pp. 247-287.

  DOI: 10.1175/JAS-D-14-0317.1

- **Artículo M2AN 2014**

  Título: A positivity preserving central scheme for shallow water flows in channels with wet-dry states

  Autor(es): Balbas, J (Balbas, Jorge); Hernandez-Duenas, G (Hernandez-Duenas, Gerardo)

  Revista: ESAIM: Mathematical Modelling and Numerical Analysis Volume: 48 Issue: 3 Pages: 665-696

  DOI: 10.1051/m2an/2013106 Published: MAY 2014

- **Artículo JAS 2015**.

  Título: Stability and instability criteria for idealized precipitating hydrodynamics.

  Autores: G. Hernandez-Duenas, L.M. Smith, and S. N. Stechmann.

  Revista: Journal of Atmospheric Sciences. Vol 72, No. 6 (2015), pp. 2379-2393.

  DOI: 10.1175/JAS-D-14-0317.1

- **Artículo AdvRes 2016**

  Título: A central-upwind scheme with artificial viscosity for shallow-water flows in channels

  Autor(es): Hernandez-Duenas, Gerardo; Beljadid, Abdelaziz;

Revista: Journal of Advances in Water Resources Volume: 96 Issue: 3 Pages: 323-338

Published: 2016

- **Artículo SWTG 2017**.

  Título: A Hybrid Method to Solve Shallow Water Flows with Horizontal Density Gradients.

  Autores: G. Hernández-Dueñas.

  Revista: Journal of Scientific Computing. Vol 73 (2017), pp. 753-782.

  DOI: 10.1175/JAS-D-14-0317.1

- **Artículo QJRMS 2019**.

  Título: Weak-and strong-friction limits of parcel models: Comparisons and stochastic convective initiation time

  Autores: Hernandez-Duenas, Gerardo and Smith, Leslie M and Stechmann, Samuel N.

  Revista: Quarterly Journal of the Royal Meteorological Society (2019), 145,722, 2272-2291.

  DOI: https://doi.org/10.1002/qj.3557

- **Artículo IJNMF 2021**.

  Título: A well-balanced positivity-preserving central-upwind scheme for one-dimensional blood flow models

  Autores: Hernandez-Duenas, Gerardo and Ramirez-Santiago, Guillermo

  Revista: International Journal for Numerical Methods in Fluids.

  DOI: https://doi.org/10.1002/fld.4887

- **Artículo AHP 2022**.

  Título: Perturbations of the Landau Hamiltonian: asymptotics of eigenvalue clusters

  Autores: Hernandez-Duenas, G and Pérez-Esteva, S and Uribe, A and Villegas-Blas, C

  Revista: Annales Henri Poincaré (2022), 23,2,361- 391.

  DOI: https://doi.org/10.1007/s00023-021-01092-7

- **Artículo JNLS 2023**.

  Título: A patch in time saves nine: Methods for the identification of localised dynamical behaviour and lifespans of coherent structures

  Autores: Blachut, Chantelle and González-Tokman, Cecilia and Hernández-Dueñas, Gerardo

  Revista: Journal of Nonlinear Science (2023), 33,4,1-32.

  DOI: https://doi.org/10.1007/s00332-023-09911-3

- **Artículo M2AN 2023**.

  Título: A new two-dimensional blood flow model with arbitrary cross sections

  Autores: Rosales-Alcantar, Cesar Alberto and Hernandez-Duenas, Gerardo

  Revista: ESAIM: Mathematical Modelling and Numerical Analysis

  DOI: https://doi.org/10.1051/m2an/2023030

Detalles de las Citas:

1 Tipo A:

A.1 **Articulo citado:**

Artículo JSC 2010

Citas en revistas indizadas:

1. **Título**: A well-balanced numerical scheme for a model of two-phase flows with treatment of nonconservative terms
   Autor(es): Thanh, Mai Duc
   Revista:: Advances in Computational Mathematics
   Published: 2019
2. **Título**: Building a van Leer-type numerical scheme for a model of two-phase flows
   Autor(es): Thanh, Mai Duc and Cuong, Dao Huy
   Revista:: Applied Mathematics and Computation
   Published: 2019
3. **Título**: A few results on the modelling of multiphase flows
   Autor(es): Jean-Marc Herard
   Revista:: AMIS 2012
   Published: 2012
4. **Título**: Completing a well-balanced numerical method for a model of two-phase flows by computing correctors
   Autor(es): Mai Duc Thanh
   Revista:: Applied Mathematics and Computation
   Published: 2017
5. **Título**: Oleinik a través del espejo
   Autor(es): Pablo Castañeda
   Revista:: Miscelánea Matemática
   Published: 2016

6. **Título**: A Technique for Computing Dense Granular Compressible Flows with Shock Waves
   Autor(es): Ryan W. Houim, Elaine S. Oran
   Revista:: ArXiv
   Published: 2014

7. **Título**: Building a Godunov-type numerical scheme for a model of two-phase flows
   Autor(es): Dao Huy Cuong, Mai Duc Thanh
   Revista:: Computers and Fluids
   Published: 2017

8. **Título**: Constructing a Godunov-type scheme for the model of a general fluid flow in a nozzle with variable cross-section
   Autor(es): Cuong, Dao Huy and Thanh, Mai Duc
   Revista:: Applied Mathematics and Computation Volume: 305 Pages: 136-160 DOI: https://doi.org/10.1016/j.am
   Published: 2017
   ISSN: ISSN: 0096-3003

9. **Título**: A multiphase model for compressible granular-gaseous flows: formulation and initial tests
   Autor(es): Houim, RW (Houim, Ryan W.); Oran, ES (Oran, Elaine S.)
   Revista:: JOURNAL OF FLUID MECHANICS Volume: 789 Pages: 166-220 DOI: 10.1017/jfm.2015.728
   Published: FEB 2016
   Accession Number: WOS:000368417100006
   ISSN: 0022-1120
   eISSN: 1469-7645

10. **Título**: WELL-BALANCED ROE-TYPE NUMERICAL SCHEME FOR A MODEL OF TWO-PHASE COMPRESSIBLE FLOWS
    Autor(es): Thanh, MD (Mai Duc Thanh)
    Revista:: JOURNAL OF THE KOREAN MATHEMATICAL SOCIETY Volume: 51 Issue: 1 Pages: 163-187 DOI: 10.4134/JKMS.2014.51.1.163 Published: JAN 2014
    Accession Number: WOS:000329769700010
    ISSN: 0304-9914
    eISSN: 2234-3008

11. **Título**: Numerical investigation of a modified family of centered schemes applied to multiphase equations with nonconservative sources

Autor(es): Crochet, MW (Crochet, M. W.); Gonthier, KA (Gonthier, K. A.)

Revista:: JOURNAL OF COMPUTATIONAL PHYSICS Volume: 255 Pages: 266-292 DOI: 10.1016/j.jcp.2013.08.010 Published: DEC 15 2013

Accession Number: WOS:000325527100014

ISSN: 0021-9991

eISSN: 1090-2716

12. **Título**: A robust numerical method for approximating solutions of a model of two-phase flows and its properties

    Autor(es): Thanh, MD (Mai Duc Thanh); Kroner, D (Kroener, Dietmar); Chalons, C (Chalons, Christophe)

    Revista:: APPLIED MATHEMATICS AND COMPUTATION Volume: 219 Issue: 1 Pages: 320-344 DOI: 10.1016/j.amc.2012.06.022 Published: SEP 15 2012

    Accession Number: WOS:000306748900029

    ISSN: 0096-3003

    eISSN: 1873-5649

13. **Título**: Numerical approximation for a Baer-Nunziato model of two-phase flows

    Autor(es): Mai, DT (Mai Duc Thanh); Kroner, D (Kroener, Dietmar); Nguyen, TN (Nguyen Thanh Nam)

    Revista: APPLIED NUMERICAL MATHEMATICS Volume: 61 Issue: 5 Pages: 702-721 DOI: 10.1016/j.apnum.2011.01.004 Published: MAY 2011

    Accession Number: WOS:000288295700006

    ISSN: 0168-9274

    eISSN: 1873-5460

14. **Título**: A phase decomposition approach and the Riemann problem for a model of two-phase flows

    Autor(es): Thanh, Mai Duc

    Revista: Journal of Mathematical Analysis and Applications, Volume 418, Issue, Pages = 569-594, Published = 2014

    ISSN: 0022-247X

15. **Título**: Existence of solutions to the Riemann problem for a model of two-phase flows

    Autor(es): THANH, MAIDUC and CUONG, DAOHUY

Revista: Electronic Journal of Differential Equations, Volume 2015, Issue 32, Pages 1-18, 2015

16. **Título**: A Godunov-type scheme for the isentropic model of a fluid flow in a nozzle with variable cross-section

    Autor(es): Cuong, Dao Huy and Thanh, Mai Duc

    Revista: Applied Mathematics and Computation, Volume 256, Pages 602-629, 2015

17. **Título**: High order finite volume WENO schemes for the shallow water flows through channels with irregular geometry

    Autor(es): Xing, Yulong

    Revista: Journal of Computational and Applied Mathematics, 2015

18. **Título**: Simulation of unsteady gas-particle flow induced by the shock-wave interaction with a particle layer

    Autor(es):Volkov, KN and Emelyanov, VN and Karpenko, AG and Teterina, IV

    Revista: Numerical methods and programming (21) 2020, pp. 96-114.

19. **Título**: A multiphase model for compressible granular–gaseous flows: formulation and initial tests

    Autor(es):Houim, Ryan W and Oran, Elaine S

    Revista: Journal of fluid mechanics (789) 2016, pp.166–220.

20. **Título**: Numerical approximation for a Baer–Nunziato model of two-phase flows

    Autor(es):Thanh, Mai Duc and Kröner, Dietmar and Nam, Nguyen Thanh

    Revista: Applied Numerical Mathematics (5), 2022, 702–721.

21. **Título**: Two-dimensional effects on the interaction of a shock wave with a cloud of particles

    Autor(es):Volkov, Konstantin Nikolaevich and Emelyanov, Vladislav Nikolaevich and Karpenko, Anton Gennad'evich and Teterina, Irina Vladimirovna

    Revista: Numerical Methods and Programming (21) 2020, 207–224.

22. **Título**: Olemik a través del espejo

    Autor(es): Castaneda, Pablo

    Revista: Miscelánea Mat (62), 2016, 63–79

23. **Título**: A staggered-projection Godunov-type method for the Baer-Nunziato two-phase model

    Autor(es): Lei, Xin and Li, Jiequan

    Revista: Journal of Computational Physics (437), 2021, 63–79

Citas en proceedings:

1. **Título**: A splitting method for the isentropic Baer-Nunziato two-phase flow model
   Autor(es): Coquel, Frédéric and Hérard, Jean-Marc and Saleh, Khaled
   Fuente: ESAIM: Proceedings, Volume 38, Pages 241-256, 2012
2. **Título**: On the computation of the Baer-Nunziato model,
   Autor(es): Crouzet, Fabien ; Daude, Frédéric ; Galon, Pascal ; Helluy, Philippe and Hérard, Jean-Marc and Liu, Yujie,
   Fuente: Contribution to the 42th AIAA FD conference
3. **Título**: Modelling compressible multiphase flows
   Autor(es): Coquel, Frédéric ; Gallouët, Thierry ; Helluy, Philippe ; Hérard, Jean-Marc ; Hurisse, Olivier and Seguin, Nicolas
   Fuente: ESAIM: Proceedings, Volume 40, Pages 34-50, 2013

Citas en revistas no indizadas:

1. **Título**: Building fast well-balanced two-stage numerical schemes for a model of two-phase flows
   Autor(es): Thanh, Mai Duc
   Revista: Communications in Nonlinear Science and Numerical Simulation, Volume 19, Issue 6, Pages 1836-1858, 2014,

Citas en tesis doctorales:

1. **Título**: Contribution à la vérification et à la validation d'un modèle diphasique bifluide instationnaire
   Autor(es): Liu, Yujie, 2013. Aix-Marseille Université.
2. **Título**: MODELING, NUMERICAL ANALYSIS, AND PREDICTIONS FOR THE DETONATION OF MULTI–COMPONENT ENERGETIC SOLIDS,
   Autor(es): Crochet, Michael Wayne, 2013. Louisiana State University

A.2 **Articulo citado:**

Artículo JSC 2011

Citas en revistas indizadas:

1. **Título**: A steady-state-preserving scheme for shallow water flows in channels

   Autor(es): Liu, Xin

   Revista: Journal of Computational Physics

   Año de Publicación: 2020

2. **Título**: A Well-Balanced and Positivity-Preserving Numerical Model for Shallow Water Flows in Channels with Wet–Dry Fronts

   Autor(es): Liu, Xin

   Revista: Journal of Scientific Computing

   Año de Publicación: 2020

3. **Título**: High order well-balanced finite difference WENO schemes for shallow water flows along channels with irregular geometry

   Autor(es): Wang, Xiufang and Li, Gang and Qian, Shouguo and Li, Jiaojiao and Wang, Zhen

   Revista: Applied Mathematics and Computation

   Published: 2019

4. **Título**: Positivity-preserving well-balanced discontinuous Galerkin methods for the shallow water flows in open channels

   Autor(es): Shouguo Qian, Gang Li, Fengjing Shao, Yulong Xingc,

   Revista: Advances in Water Resources

   Published: 2018

5. **Título**: FINITE VOLUME MULTILEVEL APPROXIMATION OF THE SHALLOW WATER EQUATIONS WITH A TIME EXPLICIT SCHEME

   Autor(es): ARTHUR BOUSQUET, MARTINE MARION, AND ROGER TEMAM

   Revista: INTERNATIONAL JOURNAL OF NUMERICAL ANALYSIS AND MODELING

   Published: 2016

6. **Título**: Numerical Methods for the Nonlinear Shallow Water Equations

   Autor(es): Y. Xing

   Publicación del libro: Handbook of Numerical Analysis

7. **Título**: Well-balanced positivity preserving cell-vertex central-upwind scheme for shallow water flows

   Autor(es): Beljadid, A ; Mohammadian, A and Kurganov, A

Revista: Computers & Fluids. Volume: 136. Pages: 193–206 Published: 2016

8. **Título**: Well-balanced high order 1d schemes on non-uniform grids and entropy residuals
   Autor(es): Puppo, Gabriella and Semplice, Matteo
   Revista: Journal of Scientific Computing. Volume: 66 Issue 3. Pages: 1052–1076
   Published: 2016

9. **Título**: Shallow-water sloshing in a moving vessel with variable cross-section and wetting–drying using an extension of George's well-balanced finite volume solver
   Autor(es): Ardakani, Hamid Alemi ; Bridges, Thomas J and Turner, Matthew R
   Revista: Journal of Computational Physics. Volume: 314 Pages: 590–617 Published: 2016

10. **Título**: A symplectic integrator for dynamic coupling between nonlinear vessel motion with variable cross-section and bottom topography and interior shallow-water sloshing
    Autor(es): Ardakani, Hamid Alemi
    Revista: Journal of Fluids and Structures. Volume: 65 Pages: 30–43 Published: 2016

11. **Título**: High order finite volume WENO schemes for the shallow water flows through channels with irregular geometry
    Autor(es): Xing,Yulong
    Revista: Journal of Computational and Applied Mathematics. Volume: 299 Pages: 229–244 Published: 2016

12. **Título**: Well-Balanced High Order 1D Schemes on Non-uniform Grids and Entropy Residuals
    Autor(es): Puppo, G (Puppo, G.); Semplice, M (Semplice, M.)
    Revista: JOURNAL OF SCIENTIFIC COMPUTING Volume: 66 Issue: 3 Pages: 1052-1076
    DOI: 10.1007/s10915-015-0056-x Published: MAR 2016
    ISSN: 0885-7474
    eISSN: 1573-7691

13. **Título**: Open Water Flow in a Wet/Dry Multiply-Connected Channel Network: A Robust Numerical Modeling Algorithm
    Autor(es): SERGII KIVVA, MARK ZHELEZNYAK, OLEKSANDR PYLYPENKO, and VASYL YOSCHENKO
    Revista: Pure and Applied Geophysics
    Año de Publicación: 2020

14. **Título**: Timescale interpolation and no-neighbour discretization for a 1D finite-volume Saint-Venant solver

    Autor(es): Hodges, Ben R and Liu, Frank

    Fuente: Journal of Hydraulic Research (51), 2020, 738–754

15. **Título**: A momentum-conserving scheme for flow simulation in 1D channel with obstacle and contraction

    Autor(es): Swastika, Putu Veri and Pudjaprasetya, Sri Redjeki and Wiryanto, Leo Hari and Hadiarti, Revi Nurfathhiyah

    Fuente: Multidisciplinary Digital Publishing Institute (6), 2021, 1–26

16. **Título**: Exactly well-balanced positivity preserving nonstaggered central scheme for open-channel flows

    Autor(es): Dong, Jian and Fang Li, Ding

    Revista: International Journal for Numerical Methods in Fluids

    Año de Publicación: 2020

17. **Título**: Very high order well-balanced schemes for non-prismatic one-dimensional channels with arbitrary shape

    Autor(es): Escalante, Cipriano and Castro, Manuel J and Semplice, Matteo

    Revista: Applied Mathematics and Computation (398), 2021 (125-993)

18. **Título**: Source Terms

    Autor(es): Godlewski, Edwige and Raviart, Pierre-Arnaud

    Revista: Numerical Approximation of Hyperbolic Systems of Conservation Laws, 2021, 627–747

19. **Título**:Open Water Flow in a Wet/Dry Multiply-Connected Channel Network: A Robust Numerical Modeling Algorithm

    Autor(es): Kivva, Sergii and Zheleznyak, Mark and Pylypenko, Oleksandr and Yoschenko, Vasyl

    Revista: Pure and Applied Geophysics (7), 2020, 3421–3458

20. **Título**:A flux globalization based well-balanced path-conservative central-upwind scheme for the shallow water flows in channels

    Autor(es): Chen, Yiming and Kurganov, Alexander and Na, Mingye

    Revista: ESAIM: Mathematical Modelling and Numerical Analysis (2023)

21. **Título**:The momentum-conserving simulation for shallow water flows in channels with arbitrary

cross-sections

Autor(es): Hadiarti, Revi Nurfathhiyah and Pudjaprasetya, Sri Redjeki and Swastika, Putu Veri

Revista: European Journal of Mechanics-B/Fluids (2023)

22. **Título**:Moving water equilibria preserving nonstaggered central scheme for open-channel flows

    Autor(es): Li, Zhen and Dong, Jian and Luo, Yiming and Liu, Min and Li, Dingfang

    Revista: Mathematical Methods in the Applied Sciences (2023)

Citas en tesis doctorales:

1. **Título**: A depth-averaged numerical model for simulating heat and fluid flows in vegetated channels

   Autor(es): Larmaei, Moradi.

   Universidad: DÉPARTEMENT DES GÉNIES CIVIL, GÉOLOGIQUE, ET DES MINES ÉCOLE POLYTECHNIQUE DE MONTRÉAL.

2. **Título**: Evaluation of the Measurement Capabilities of an Autonomous Surface Vessel in Coastal Regions

   Autor(es): MORGAN EMILY HARVIE,

   Universidad: Master of Science (Research) in Earth and Ocean Sciences at The University of Waikato **Año de Publicación**: 2019

Citas en preprints:

1. **Título**: A central-upwind scheme for open water flow in a wet/dry multi-connected channel network

   Autor(es): Kivva, Sergii and Zheleznyak, Mark and Pilipenko, Alexander and Yoschenko, Vasy

   Fuente: arXiv preprint arXiv:1708.05363

2. **Título**: A central-upwind scheme for open water flow in a wet/dry multiply-connected channel network

   Autor(es): Kivva, Sergii and Zheleznyak, Mark and Pilipenko, Alexander and Yoschenko, Vasyl

   Fuente: arXiv:1708.05363

A.3 Articulo citado: Artículo JFM 2013

Citas en revistas indizadas:

1. **Título de Review Article**: Moisture transfer by turbulent natural convection

   Autor(es): Zhang, Lu and Chong, Kai Leong and Xia, Ke-Qing

   Revista:: Journal of Fluid Mechanics

   Año de publicación: 2019

2. **Título de Review Article**: Multiscale Models in Geophysical Fluid Dynamics

   Autor(es): Ian Grooms and Keith Julien

   Revista:: Earth and Space Science

   Año de publicación: 2018

   Nota: Proponen que nuestro modelo se puede usar para sus técnicas multi-escalares.

3. **Título**: A simple system for moist convection: the Rainy?Bénard model

   Autor(es): Geoffrey K. Vallis, Douglas J. Parker and Steven M. Tobias

   Revista:: Journal of Fluid Mechanics

   Año de publicación: 2019

   Nota: Vallis es sumamente reconocido en su área y autor del libro clásico "Atmospheric and oceanic fluid dynamics". Al citarnos, indica que usarán la misma formulación para la temperatura dada por Clausius?Clapeyron.

4. **Título**: A Stochastic Lagrangian Basis for a Probabilistic Parameterization of Moisture Condensation in Eulerian Models

   Autor(es): YUE-KIN TSANG, GEOFFREY K. VALLIS

   Revista:: Journal of Atmospheric Sciences

   Año de publicación: 2018

   Nota: Vallis es sumamente reconocido en su área y autor del libro clásico "Atmospheric and oceanic fluid dynamics". Al citarnos, indica que su método se puede aplicar a modelos idealizados con diferentes niveles de complejidad y propone este como el siguiente paso.

5. **Título**: Global well-posedness for passively transported nonlinear moisture dynamics with phase changes

   Autor(es): Hittmeir, Sabine and Klein, Rupert and Li, Jinkai and Titi, Edriss S

   Revista:: Nonlinearity

   Año de publicación: 2017

   Nota: Edriss S. Titi es un matemático muy respetado en el área y que ha trabajado extensamente

en resultados de regularidad y problemas bien planteados, con una publicación en Annals of Mathematics. Recientemente se ha interesado por modelos de flujos oceánicos y atmosféricos, citando el nuestro en su reciente preprint.

6. **Título**: Asymptotics for moist deep convection I: refined scalings and self-sustaining updrafts
   Autor(es): Hittmeir, Sabine and Klein, Rupert
   Revista:: Theoretical and Computational Fluid Dynamics
   Año de publicación: 2017

7. **Título**: A kinematic model for understanding rain formation efficiency of a convective cell
   Autor(es): Fu, Hao and Lin, Yihua
   Revista:: Journal of Advances in Modeling Earth Systems
   Año de publicación: 2019

8. **Título**:Entrainment in dry and moist thermals
   Autor(es): G. R. Vybhav
   Revista:: PHYSICAL REVIEW FLUIDS 7, 050501 (2022)

9. **Título**:Direct Numerical Simulation of a Moist Cough Flow using Eulerian Approximation for Liquid Droplets
   Autor(es): Rohit Singhal, S. Ravichandran , and Sourabh S. Diwan
   Revista:: INTERNATIONAL JOURNAL OF COMPUTATIONAL FLUID DYNAMICS (2021), VOL. 35, NO. 9, 778-797

10. **Título**:Instability driven by settling and evaporation in a shear flow: A model for asperitas clouds
    Autor(es): S. Ravichandran
    Revista:: PHYSICAL REVIEW FLUIDS 7, 010501 (2022)

11. **Título**:A Simple Lagrangian Parcel Model for the Initiation of Summertime Mesoscale Convective Systems over the Central United States
    Autor(es): Yang, Qiu and Leung, L Ruby and Feng, Zhe and Song, Fengfei and Chen, Xingchao
    Revista:: Journal of the Atmospheric Sciences, (2021), 78, 11, 3537 - 3558

12. **Título**:Impact of Global Warming on US Summertime Mesoscale Convective Systems: A Simple Lagrangian Parcel Model Perspective
    Autor(es): Yang, Qiu and Leung, L Ruby and Feng, Zhe and Chen, Xingchao
    Revista:: Journal of Climate (2023)

13. **Título**:Scaling approaches to quasi-geostrophic theory for moist, precipitating air
    Autor(es): Bäumer, Daniel and Hittmeir, Sabine and Klein, Rupert
    Revista:: Journal of the Atmospheric Sciences (2023)

Citas en tesis doctorales:

1. **Título**: Atmospheric Dynamics with Moisture and Phase Changes
   Autor(es): Marsico, David H
   Universidad:: The University of Wisconsin - Madison, Department of Mathematics
   Año de publicación: 2020
2. **Título**: Scalar Transport in Buoyancy-Driven Flows and Kinematic Behavior of Magnetotactic Bacteria
   Autor(es): Zhang, Lu
   Universidad:: The Chinese University of Hong Cong
   Año de publicación: 2019
3. **Título**: Fluid dynamics in clouds: The sum of its parts
   Autor(es): S. Ravichandran, Jason R. Picardo, Samriddhi Sankar Ray, and Rama Govindarajan
   Año de publicación: 2021

Citas en tesis doctorales:

1. **Título**: Global well-posedness of large scale moist atmosphere system with only horizontal viscosity in the dynamic equation
   Autor(es): Tan, Shenyang and Liu, Wenjun
   Año de publicación: arXiv preprint arXiv:2210.06337 (2022)

A.4 **Articulo citado: Artículo JFM 2014**.

Citas en revistas indizadas:

1. **Título**: Turbulent exchanges between near-inertial waves and balanced flows
   Autor(es): Thomas, Jim and Daniel, Don
   Revista:: Journal of Fluid Mechanics
   Año de publicación: 2020

2. **Título**: Two-dimensional isotropic inertia–gravity wave turbulence

   Autor(es): Xie, Jin-Han and Bühler, Oliver

   Universidad: Journal of Fluid Mechanics **Año de publicación:** 2019

3. **Título**: Components of Nonlinear Oscillation and Optimal Averaging for Stiff PDEs

   Autor(es): Adam Peddle

   Universidad: University of Exeter **Año de publicación:** 2018

4. **Título**: Ph.D. Thesis: Wave-Vortex Interactions in Rotating, Stratified, and Compressible Flows

   Autor(es): Jim Thomas

   Universidad: Courant Instutute, NYU **Advisors:**: Olier Büler, K. Shafer Smith

   Año de publicación: 2017

   Nota: Los asesores Smith y Büler son muy reconocidos en el área.

5. **Título**: On the Similarity of Lower-Stratospheric Potential Vorticity Dipoles above Tropical and Midlatitude Deep Convection

   Autor(es): Hitchman, Matthew H and Rowe, Shellie M

   Revista:: Journal of the Atmospheric Sciences. Vol 74 (8). Pages 2593–2613.

   Año de publicación: 2017

6. **Título**: Quantifying resonant and near-resonant interactions in rotating turbulence

   Autor(es): di Leoni, Patricio Clark and Mininni, Pablo D

   Revista:: Journal of Fluid Mechanics. Vol 809. Pages 821–842

   Año de publicación: 2017

7. **Título**: On the Structure and Formation of UTLS PV Dipole/Jetlets in Tropical Cyclones by Convective Momentum Surges

   Autor(es): Hitchman, Matthew H and Rowe, Shellie M

   Revista:: Monthly Weather Review

   Año de publicación: 2019

8. **Título**: A wave-vortex decomposition for rotating Boussinesq flows in bounded domains

   Autor(es): Jeffrey J. Early, M. Pascale Lelong, Miles A. Sundermeyer

   Revista: https://arxiv.org/pdf/2002.06267.pdf **Año de publicación:** 2020

9. **Título**: Flow structures and kinetic-potential exchange in forced rotating stratified turbulence

   Autor(es): Tianyi Li, Minping Wan, Jianchun Wang, and Shiyi Chen

Revista: PHYSICAL REVIEW FLUIDS 5, 014802 (2020) **Año de publicación:** 2020

10. **Título**: Forward flux and enhanced dissipation of geostrophic balanced energy

    Autor(es): Thomas, Jim and Daniel, Don

    Revista: Journal of Fluid Mechanics (2021), 911.

11. **Título**: Linear and weakly nonlinear energetics of global nonhydrostatic normal modes

    Autor(es): Raupp, Carlos FM and Teruya, André SW and Silva Dias, Pedro L

    Revista: Journal of the Atmospheric Sciences (2019), 76,12, 3831 - 3846

12. **Título**: The catalytic effect of near-inertial waves on-plane zonal jets

    Autor(es): Zhang, Lin-Fan and Xie, Jin-Han

    Revista: Journal of Fluid Mechanics (2023)

A.5 **Articulo citado:**

Artículo M2AN 2014

1. **Título**: A steady-state-preserving scheme for shallow water flows in channels

   Autor(es): Liu, Xin

   Revista: Journal of Computational Physics

   Año de Publicación: 2020

2. **Título**: A Well-Balanced and Positivity-Preserving Numerical Model for Shallow Water Flows in Channels with Wet–Dry Fronts

   Autor(es): Liu, Xin

   Revista: Journal of Scientific Computing

   Año de Publicación: 2020

3. **Título**: Exactly well-balanced positivity preserving nonstaggered central scheme for open-channel flows

   Autor(es): Dong, Jian and Fang Li, Ding

   Revista: International Journal for Numerical Methods in Fluids

   Año de Publicación: 2020

4. **Título**: High order well-balanced finite difference WENO schemes for shallow water flows along channels with irregular geometry

Autor(es): Wang, Xiufang and Li, Gang and Qian, Shouguo and Li, Jiaojiao and Wang, Zhen

Revista: Applied Mathematics and Computation

Año de Publicación: 2019

5. **Título**: Positivity-preserving well-balanced discontinuous Galerkin methods for the shallow water flows in open channels

   Autor(es): Shouguo Qian, Gang Li, Fengjing Shao, Yulong Xing,

   Revista: Advances in Water Resources

   Año de Publicación: 2018

6. **Título**: Finite volume method with reconstruction and bottom modification for open channel flows: An application to Yom River, Thailand

   Autor(es): Thida Pongsanguansin, Montri Maleewong & Khamron Mekchay

   Revista: International Journal for Computational Methods in Engineering Science and Mechanics

   Año de Publicación: 2018

7. **Título**: A DIFFERENCE SCHEME FOR A DEGENERATING CONVECTION-DIFFUSION-REACTION SYSTEM MODELLING CONTINUOUS SEDIMENTATION

   Autor(es): Raimund Bürger, Stefan Diehl and Camilo Mejías

   Revista: ESAIM: Mathematical Modelling and Numerical Analysis

   Año de Publicación: 2018

8. **Título**: Tesis: Una contribución a las simulaciones numéricas de tanques de sedimentación y aplicaciones relacionadas

   Autor(es): Mejías Neira, Camilo Ignacio and others

   Revista: Universidad de Concepción. Facultad de Ciencias Físicas y Matemáticas

   Año de Publicación: 2019

9. **Título**: Open Water Flow in a Wet/Dry Multiply-Connected Channel Network: A Robust Numerical Modeling Algorithm

   Autor(es): SERGII KIVVA, MARK ZHELEZNYAK, OLEKSANDR PYLYPENKO, and VASYL YOSCHENKO

   Revista: Pure and Applied Geophysics

   Año de Publicación: 2020

10. **Título**: The momentum-conserving simulation for shallow water flows in channels with arbitrary cross-sections
    Autor(es): Hadiarti, Revi Nurfathhiyah and Pudjaprasetya, Sri Redjeki and Swastika, Putu Veri
    Revista: European Journal of Mechanics-B/Fluids
    Año de Publicación: 2023

11. **Título**: Moving water equilibria preserving nonstaggered central scheme for open-channel flows
    Autor(es): Li, Zhen and Dong, Jian and Luo, Yiming and Liu, Min and Li, Dingfang
    Revista: Mathematical Methods in the Applied Sciences
    Año de Publicación: 2023

Citas en tesis de licenciatura:

1. **Título**: LICENCIADO EN TECNOLOGÍA
   Autor(es): INTERIANO, RODRIGO BRITO
   Revista: Universidad Nacional Autónoma DE México (2021)

Citas en arxiv:

1. **Título**: A central-upwind scheme for open water flow in a wet/dry multi-connected channel network
   Autor(es): Kivva, Sergii and Zheleznyak, Mark and Pilipenko, Alexander and Yoschenko, Vasyl
   Revista: arXiv preprint arXiv:1708.05363

2. **Título**: A well-balanced reconstruction with bounded velocities for the shallow water equations by convex combination
   Autor(es): Skevington, Edward WG
   Revista: arXiv preprint arXiv:2106.11273 **Año de Publicación**: 2021

A.6 **Artículo JAS 2015**.

Citas en revistas indizadas:

1. **Título**: How Mountain Geometry Affects Aerosol-Cloud-Precipitation Interactions: Part I. Shallow Convective Clouds
   Autor(es): Seo, Jaemyeong Mango and Lee, Hyunho and Moon, Sungju and Baik, Jong-Jin

Revista:: Journal of the Meteorological Society of Japan. Ser. II

Año de publicación: 2020

2. **Título**: Projected changes in atmospheric moisture transport contributions associated with climate warming

   Autor(es): Fernández-Alvarez, Jose Carlos and Pérez-Alarcón, Albenis and Rahimi, Stefan and NIETO, RAQUEL and Gimeno, Luis

   Revista:: Research Square

   Año de publicación: 2022

Citas en tesis de Doctorado:

1. **Título**: The role of thermal boundary conditions in rotating Rayleigh-Bénard convection

   Autor(es): Peifer, Janet Forrester

   Universidad:: University of Leeds (2022)

A.7 **Articulo citado:**

Artículo AdvRes 2016

En revistas indizadas:

1. **Título**: A steady-state-preserving scheme for shallow water flows in channels

   Autor(es): Liu, Xin

   Revista: Journal of Computational Physics

   Año de Publicación: 2020

2. **Título**: A Well-Balanced and Positivity-Preserving Numerical Model for Shallow Water Flows in Channels with Wet–Dry Fronts

   Autor(es): Liu, Xin

   Revista: Journal of Scientific Computing

   Año de Publicación: 2020

3. **Título**: Dynamics of the Jet Wiping Process via Integral Models

   Autor(es): Mendez, MA and Gosset, A and Scheid, B and Balabane, M and Buchlin, J-M

Revista: arXiv preprint arXiv:2004.13400

Año de Publicación: 2020

4. **Título**: Exactly well-balanced positivity preserving nonstaggered central scheme for open-channel flows

   Autor(es): Dong, Jian and Fang Li, Ding

   Revista: International Journal for Numerical Methods in Fluids

   Año de Publicación: 2020

5. **Título**: High order well-balanced finite difference WENO schemes for shallow water flows along channels with irregular geometry

   Autor(es): Wang, Xiufang and Li, Gang and Qian, Shouguo and Li, Jiaojiao and Wang, Zhen

   Revista: Applied Mathematics and Computation

   Published: 2019

6. **Título**: Positivity-preserving well-balanced discontinuous Galerkin methods for the shallow water flows in open channels

   Autor(es): Shouguo Qian, Gang Li, Fengjing Shao, Yulong Xing,

   Revista: Advances in Water Resources

   Published: 2018

7. **Título**:Late-time asymptotic behavior of solutions to hyperbolic conservation laws on the sphere

   Autor(es): Abdelaziz Beljadida, Philippe G. LeFloch, Abdolmajid Mohammadian

   Revista: Comput. Methods Appl. Mech. Engrg. 349 (2019) 285?311

   Published: 2019

8. **Título**:Conservative finite-volume forms of the Saint-Venant equations for hydrology and urban drainage

   Autor(es): Ben R. Hodgesl

   Revista: Hydrol. Earth Syst. Sci., 23, 1281?1304, 2019

   Published: 2019

9. **Título**:Modelling Torrential Rain Flows in Urban Territories: Floods - Natural Channels (The Case Study of Madeira Island)

   Autor(es): Sérgio Lousada, Luís Loures **Revista:** American Journal of Water Science and Engineering

   Año de Publicación: 2020

10. **Título**: Open Water Flow in a Wet/Dry Multiply-Connected Channel Network: A Robust Numerical Modeling Algorithm

    Autor(es): SERGII KIVVA, MARK ZHELEZNYAK, OLEKSANDR PYLYPENKO, and VASYL YOSCHENKO

    Revista: Pure and Applied Geophysics

    Año de Publicación: 2020

11. **Título**: Hybrid artificial viscosity–central-upwind scheme for recirculating turbulent shallow water flows

    Autor(es): Ginting, Bobby Minola and Ginting, Herli

    Revista: Journal of Hydraulic Engineering (2019), 145,12,

12. **Título**: A structure-preserving algorithm for surface water flows with transport processes

    Autor(es): Karjoun, Hasan and Beljadid, Abdelaziz and LeFloch, Philippe G

    Revista: Advances in Computational Mathematics (2022), 48,1,1-32.

13. **Título**: A meshless artificial viscosity method for wet-dry moving interfaces problems of shallow water flow

    Autor(es): Zhang, Ting and Zhan, Chang-Xun and Wang, Hai-Wei and Lin, Chuan and Guo, Xiao-Mei

    Revista: Ocean Engineering (2021), 236.

14. **Título**: Exploring induced oscillatory free-surface waves in prismatic open-channel

    Autor(es): Souad Mnassri, Ali Triki

    Revista: Ocean Engineering 236 (2021).

En tesis doctorales:

1. **Título**: Hydrodynamic modeling of vegetated alluvial channel and its application in aquatic ecology

Autor(es): Baruah, Anupal J

Universidad: Indian Institute of Technology Guwahati

Año de Publicación: 2021

En preprint:

1. **Título**:01 MODELLING TORRENTIAL RAIN FLOWS IN URBAN TERRITORIES: FLOODS. THE CASE STUDY OF MADEIRA ISLAND

   Autor(es): Rafael Camacho, B. Sérgio Lousada, C. Rui Castanho

   Published: 2018

2. **Título**: A central-upwind scheme for open water flow in a wet/dry multiply-connected channel network

   Autor(es): Kivva, Sergii and Zheleznyak, Mark and Pilipenko, Alexander and Yoschenko, Vasyl

   Fuente: arXiv:1708.05363

3. **Título**: A well-balanced positivity preserving cell-vertex finite volume method satisfying the discrete maximum-minimum principle for coupled models of surface water flow and scalar transport

   Autor(es): Hasan Karjoun, Abdelaziz Beljadid, Philippe G. LeFlochc

   Fuente: arXiv:1708.05363

A.8 **Articulo citado:**

Artículo SWTG 2017

Citas en revistas indizadas:

1. **Título**: A Well-Balanced Central-Upwind Scheme for the Thermal Rotating Shallow Water Equations

   Autor(es): Kurganov, Alexander and Liu, Yongle and Zeitlin, Vladimir

   Revista: arXiv preprint arXiv:1911.09277

2. **Título**: High Order Still-Water and Moving-Water Equilibria Preserving Discontinuous Galerkin Methods for the Ripa Model

   Autor(es): Jolene Britton, Yulong Xing

   Revista: Journal of Scientific Computing

   Año de Publicación: 2020

Citas en tesis doctorales:

1. **Título**: High Order Numerical Methods for Hyperbolic Balance Laws: Well-Balanced Discontinuous Galerkin Methods and Adjoint-Based Inverse Algorithms
   Autor(es): Jolene A. Britton
   Universidad: UNIVERSITY OF CALIFORNIA RIVERSIDE

A.9 **Articulo citado:**

Artículo IJNMF 2021.

Citas en revistas indizadas:

1. **Título**: Steady-state solutions of one-dimensional equations of non-Newtonian hemodynamics
   Autor(es): Krivovichev, Gerasim V
   Revista: International Journal of Biomathematics (2022)

2. **Título**: Analysis of high Reynolds free surface flows
   Autor(es): Young, DL and Lin, Marvin CH and Tsai, CC
   Revista: Journal of Mechanics (2022)

3. **Título**: Asymptotic stability of rarefaction wave for a blood flow model
   Autor(es): Wei, Jing and Yao, Huancheng and Zhu, Changjiang
   Revista: Mathematical Methods in the Applied Sciences (2023)

4. **Título**: **Autor(es)**: **Revista:** Differential Equations & Control Processes (2022)

A.9 **Articulo citado:**

Artículo JNLS 2023.

Citas en revistas indizadas:

1. **Título**: Persistence and material coherence of a mesoscale ocean eddy

   Autor(es): Denes, Michael C and Froyland, Gary and Keating, Shane R

   Revista: Physical Review Fluids (2023)

A.10 **Articulo citado:**

Artículo M2AN 2023.

Citas en revistas indizadas:

Citas en tesis:

1. **Título**: Navier-Stokes equations in one and two dimensions

   Autor(es): Nerdal, Jon

   Revista: Louisiana State University and Agricultural & Mechanical College (2022)

2 Tipo B

B.I **Articulo citado:**

Artículo JFM 2013

Citas en revistas indizadas:

1. **Título**: Potential Vorticity and Balanced and Unbalanced Moisture
   Autor(es): Wetzel, Alfredo N and Smith, Leslie M and Stechmann, Samuel N and Martin, Jonathan E and Zhang, Yeyu
   Revista:: Journal of the Atmospheric Sciences
   Año de publicación: 2020
2. **Título**: Expanding Grids for Efficient Cloud Dynamics Simulations Across Scales
   Autor(es): Marsico, David H and Stechmann, Samuel N
   Revista:: Mathematics of Climate and Weather Forecasting
   Año de publicación: 2020
3. **Título de Review Article**: Discontinuous Fronts as Exact Solutions to Precipitating Quasi-geostrophic Equations
   Autor(es): Wetzel, Alfredo N and Smith, Leslie M and Stechmann, Samuel N
   Revista:: SIAM Journal on Applied Mathematics
   Año de publicación: 2019
4. **Título de Review Article**: Instability and nonlinear dynamics of the MJO in a tropical channel model with vertically varying convective adjustment
   Autor(es): Ogrosky, H Reed and Stechmann, Samuel N and Hottovy, Scott
   Revista:: Theoretical and Computational Fluid Dynamics
   Año de publicación: 2019
5. **Título**: Moisture transport due to baroclinic waves: Linear analysis of precipitating quasi-geostrophic dynamics
   Autor(es): Wetzel, Alfredo N and Smith, Leslie M and Stechmann, Samuel N
   Revista: Mathematics of Climate and Weather Forecasting. Volume: 3. Pages: 28–50
   Año de publicación: 2017
6. **Título**: Precipitating Quasigeostrophic Equations and Potential Vorticity Inversion with Phase

Changes

Autor(es): Smith, Leslie M and Stechmann, Samuel N

Revista: Journal of the Atmospheric Sciences. Volume: 74 (10). Pages: 3285–3303

Año de publicación:: 2017

7. **Título**: Balanced and unbalanced components of moist atmospheric flows with phase changes

   Autor(es): Wetzel, Alfredo N and Smith, Leslie M and Stechmann, Samuel N and Martin, Jonathan E

   Revista:: Chinese Annals of Mathematics, Series B

   Año de publicación: 2019

8. **Título**: Atmospheric Rivers and Water Fluxes in Precipitating Quasi-geostrophic Turbulence

   Autor(es): Thomas K. Edwards, Leslie M. Smith, Samuel N. Stechmann

   Revista:: Quarterly Journal of the Royal Meteorological Society

   Año de publicación: 2020

9. **Título**: Energy decompositions for moist Boussinesq and anelastic equations with phase changes

   Autor(es): Marsico, David H and Smith, Leslie M and Stechmann, Samuel N

   Revista:: Journal of the Atmospheric Sciences (76),11, 2019, 3569-3587

10. **Título**: Spectra of atmospheric water in precipitating quasi-geostrophic turbulence

    Autor(es): Edwards, Thomas K and Smith, Leslie M and Stechmann, Samuel N

    Revista:: Geophysical & Astrophysical Fluid Dynamics (114),6, 2020, 715–741

11. **Título**: Initial investigations of precipitating quasi-geostrophic turbulence with phase changes

    Autor(es): Hu, Rentian and Edwards, Thomas K and Smith, Leslie M and Stechmann, Samuel N

    Revista:: Research in the Mathematical Sciences (8),1, 2021, 1-25

12. **Título**: Shallow-cloud impact on climate and uncertainty: A simple stochastic model

    Autor(es): Eli A. Mueller and Samuel N. Stechmann

    Revista:: Math. Clim. Weather Forecast (6),2020, 16-37.

13. **Título**: Effects of clouds and phase changes on fast-wave averaging: a numerical assessmentl

    Autor(es): Yeyu Zhang, Leslie M. Smith and Samuel N. Stechmann

    Revista:: J. Fluid Mech. (2021), vol. 920, A49, doi:10.1017/jfm.2021.427

14. **Título**:Convergence to precipitating quasi-geostrophic equations with phase changes: asymptotics

and numerical assessment

Autor(es): Yeyu Zhang, Leslie M.Smith andSamuel N. Stechmann

Revista:: Phil.Trans.R.Soc.A380: 2021003

15. **Título**:Fast-Wave Averaging with Phase Changes: Asymptotics and Application to Moist Atmospheric Dynamics

    Autor(es): Yeyu Zhang, Leslie M.Smith andSamuel N. Stechmann

    Revista:: Phil.Trans.R.Soc.A380: 2021003

Citas en preprints:

1. **Título**:Hamilton's Principle with Phase Changes and Conservation Principles for Moist Potential Vorticity

   Autor(es): Kooloth, Parvathi and Smith, Leslie M and Stechmann, Samuel N

   Revista:: arXiv preprint arXiv:2206.07734 (2023)

2. **Título**:A nonlinear elliptic PDE from atmospheric science: well-posedness and regularity at cloud edge

   Autor(es): Remond-Tiedrez, Antoine and Smith, Leslie M and Stechmann, Samuel N

   Revista:: arXiv preprint arXiv:2301.07611 (2023)

B.2 **Articulo citado: Artículo JFM 2014**.

Citas en revistas indizadas:

1. **Título**: A generalized wave-vortex decomposition for rotating Boussinesq flows with arbitrary stratification

   Autor(es): Early, Jeffrey J and Lelong, M Pascale and Sundermeyer, Miles A

   Revista: Journal of Fluid Mechanics (2021), 912.

2. **Título**: Effects of clouds and phase changes on fast-wave averaging: a numerical assessmentl

   Autor(es): Yeyu Zhang, Leslie M. Smith and Samuel N. Stechmann

   Revista:: J. Fluid Mech. (2021), vol. 920, A49, doi:10.1017/jfm.2021.427

3. **Título**:Convergence to precipitatingquasi-geostrophic equationswith phase changes:asymptotics and numericalassessment

Autor(es): Yeyu Zhang, Leslie M.Smith andSamuel N. Stechmann

Revista:: Phil.Trans.R.Soc.A380: 2021003

4. **Título**:Fast-Wave Averaging with Phase Changes: Asymptotics and Application to Moist Atmospheric Dynamics

   Autor(es): Yeyu Zhang, Leslie M.Smith andSamuel N. Stechmann

   Revista:: Phil.Trans.R.Soc.A380: 2021003

B.3 **Artículo JAS 2015**.

Citas en revistas indizadas:

1. **Título de Review Article**: Discontinuous Fronts as Exact Solutions to Precipitating Quasigeostrophic Equations

   Autor(es): Wetzel, Alfredo N and Smith, Leslie M and Stechmann, Samuel N

   Revista:: SIAM Journal on Applied Mathematics

   Año de publicación: 2019

2. **Título de Review Article**: Instability and nonlinear dynamics of the MJO in a tropical channel model with vertically varying convective adjustment

   Autor(es): Ogrosky, H Reed and Stechmann, Samuel N and Hottovy, Scott

   Revista:: Theoretical and Computational Fluid Dynamics

   Año de publicación: 2019

3. **Título**: Precipitating Quasigeostrophic Equations and Potential Vorticity Inversion with Phase Changes

   Autor(es): LESLIE M. SMITH, SAMUEL N. STECHMANN

   Revista: Journal of Atmospheric Sciences

   Published: 2017

4. **Título**: Moisture transport due to baroclinic waves: Linear analysis of precipitating quasigeostrophic dynamics

   Autor(es): Wetzel, Alfredo N and Smith, Leslie M and Stechmann, Samuel N

   Revista: Mathematics of Climate and Weather Forecasting. Volume: 3. Pages: 28–50

   Published: 2017

5. **Título**: Energy decompositions for moist Boussinesq and anelastic equations with phase changes

Autor(es): Marsico, David H and Smith, Leslie M and Stechmann, Samuel N

Revista:: Journal of the Atmospheric Sciences (76),11, 2019, 3569-3587

6. **Título**: Initial investigations of precipitating quasi-geostrophic turbulence with phase changes

   Autor(es): Hu, Rentian and Edwards, Thomas K and Smith, Leslie M and Stechmann, Samuel N

   Revista:: Research in the Mathematical Sciences (8),1, 2021, 1-25

7. **Título**:Convergence to precipitating quasi-geostrophic equations with phase changes: asymptotics and numerical assessment

   Autor(es): Yeyu Zhang, Leslie M.Smith andSamuel N. Stechmann

   Revista:: Phil.Trans.R.Soc.A380: 2021003

8. **Título**:Fast-Wave Averaging with Phase Changes: Asymptotics and Application to Moist Atmospheric Dynamics

   Autor(es): Yeyu Zhang, Leslie M.Smith andSamuel N. Stechmann

   Revista:: Phil.Trans.R.Soc.A380: 2021003

9. **Título**: Atmospheric Dynamics with Moisture and Phase Changes

   Autor(es): Marsico, David H

   Universidad:: The University of Wisconsin - Madison, Department of Mathematics

   Año de publicación: 2020

B.4 **Articulo citado:**

Artículo QJRMS 2019.

Citas en revistas indizadas:

1. **Título**: Energy decompositions for moist Boussinesq and anelastic equations with phase changes

   Autor(es): Marsico, David H and Smith, Leslie M and Stechmann, Samuel N

   Revista:: Journal of the Atmospheric Sciences (76),11, 2019, 3569-3587

2. **Título**: Potential Vorticity and Balanced and Unbalanced Moisture

   Autor(es): Wetzel, Alfredo N and Smith, Leslie M and Stechmann, Samuel N and Martin, Jonathan E and Zhang, Yeyu

   Revista:: Journal of the Atmospheric Sciences

   Año de publicación: 2020

3. **Título**: Rain process models and convergence to point processes
   Autor(es): Hottovy, Scott and Stechmann, Samuel N
   Revista:: Nonlinear Processes in Geophysics
   Año de publicación: 2023

B.5 **Articulo citado:**

- **Artículo AHP 2022**.

Citas en revistas indizadas:

1. **Título**: On the Explicit Semiclassical Limiting Eigenvalue (Resonance) Distribution for the Zeeman (Stark) Hydrogen Atom Hamiltonian
   Autor(es): Pérez-Estrada, Carlos and Villegas-Blas, Carlos
   Revista:: pectral Theory and Mathematical Physics (2022), 199-227

B.6 **Articulo citado:**

- **Artículo AdvRes 2016**

Citas en revistas indizadas:

1. **Título**: An efficient semi-implicit friction source term treatment for modeling overland flow
   Autor(es): Beljadid, Abdelaziz and Hanini, Amine
   Revista: Advances in Water Resources (2023).

Citas en revistas preprints:

1. **Título**: A numerical model preserving nontrivial steady-state solutions for predicting waves run-up on coastal areas
   Autor(es): Karjoun, Hasan and Beljadid, Abdelaziz
   Revista: arXiv preprint arXiv:2210.01499 (2022).

3 Tipo C (autocitas):

C.4 **Articulo citado:**

JSC 2010

1. **Título**: A Hybrid Method to Solve Shallow Water Flows with Horizontal Density Gradients
   Autor(es): Hernandez-Duenas, Gerardo
   Revista: J Sci Comput (2017) 73:753?782
   Published: 2017

C.1 **Articulo citado:**

JSC 2011

Citas:

1. **Título**: A central-upwind scheme with artificial viscosity for shallow-water flows in channels
   Autor(es): Hernandez-Duenas, Gerardo; Beljadid, Abdelaziz;
   Revista: Journal of Advances in Water Resources Volume: 96 Issue: 3 Pages: 323-338
   Published: 2016
2. **Título**: A positivity preserving central scheme for shallow water flows in channels with wet-dry states
   Autor(es): Balbas, J (Balbas, Jorge); Hernandez-Duenas, G (Hernandez-Duenas, Gerardo)
   Revista: ESAIM: Mathematical Modelling and Numerical Analysis Volume: 48 Issue: 3 Pages: 665-696
   DOI: 10.1051/m2an/2013106 Published: MAY 2014
   Accession Number: WOS:000335388600002
   Author Identifiers:
3. **Título**: A Hybrid Method to Solve Shallow Water Flows with Horizontal Density Gradients.
   Autores: G. Hernández-Dueñas.
   Revista: Journal of Scientific Computing. Vol 73 (2017), pp. 753-782.
   DOI: 10.1175/JAS-D-14-0317.1
4. **Título**: Bathymetry and friction estimation from transient velocity data for one-dimensional shallow water flows in open channels with varying width.

Autores: Hernández-Dueñas, Gerardo and Moreles, Miguel Angel and González-Casanova, Pedro.

Revista: Physics of Fluids (2023).

C.2 **Articulo citado:**

JFM 2013

1. **Título**: Weak-and strong-friction limits of parcel models: Comparisons and stochastic convective initiation time

   Autor(es): Hernandez-Duenas, Gerardo and Smith, Leslie M and Stechmann, Samuel N

   Revista: Quarterly Journal of the Royal Meteorological Society

   Published: 2019

2. **Título**: Stability and Instability Criteria for Idealized Precipitating Hydrodynamics

   Autor(es): Hernandez-Duenas, G (Hernandez-Duenas, Gerardo); Smith, LM (Smith, Leslie M.); Stechmann, SN (Stechmann, Samuel N.)

   Revista: JOURNAL OF THE ATMOSPHERIC SCIENCES Volume: 72 Issue: 6 Pages: 2379-2393 DOI: 10.1175/JAS-D-14-0317.1 Published: JUN 2015

   Accession Number: WOS:000355108500012

   ISSN: 0022-4928

C.3 **Articulo citado: Artículo JFM 2014**.

En revistas indizadas:

1. **Título**: Impact of Wave–Vortical Interactions on Oceanic Submesoscale Lateral Dispersion

   Autor(es): GERARDO HERNÁNDEZ-DUEÑAS, M.-PASCALE LELONG, AND LESLIE M. SMITH.

   Revista: Journal of Physical Oceanography (2021), 3495 - 3511

2. **Título**: A patch in time saves nine: Methods for the identification of localised dynamical behaviour and lifespans of coherent structures

   Autor(es): Blachut, Chantelle and González-Tokman, Cecilia and Hernández-Dueñas, Gerardo.

Revista: Journal of Nonlinear Science (2023)

C.4 **Articulo citado: M2AN 2014**

1. **Título**: A central-upwind scheme with artificial viscosity for shallow-water flows in channels
   Autor(es): Hernandez-Duenas, Gerardo; Beljadid, Abdelaziz;
   Revista: Journal of Advances in Water Resources Volume: 96 Issue: 3 Pages: 323-338
   Published: 2016

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   Autor(es): Hernandez-Duenas, Gerardo and Balbás, Jorge
   Revista: ESAIM: Mathematical Modelling and Numerical Analysis (2021)

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1. **Título**: A positivity-preserving central-upwind scheme for isentropic two-phase flows through deviated pipes
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