

## Research publications

(Scopus Author ID: 56273846200)

- Citations: 4992 (Google scholar), 3287 (Scopus)
- h-index: 42 (Gogole Scholar), 35 (Scopus)
- i10-index: 113 (Google scholar)
- Book [1] has received 21500 downloads from Springer's web site.
- *Field Weighted Citation Impact (FWCI) of 5 selective papers:*
- Drikakis, Progress of Aerospace Sciences, 2005 (FWCI 18.84); Thornber & Drikakis, AIAA Journal, 2008 (FWCI 14.02); Kalweit & Drikakis, Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2008 (FWCI 13.5); Hahn & Drikakis, AIAA Journal, 2009 (FWCI 8.15); Drikakis et al., Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2009 (FWCI 7.08).

## Books

1. D. Drikakis and W. Rider<sup>1</sup> *High-Resolution Methods for Incompressible and Low-Speed Flows*, Springer, 2005, 622 pages CFD textbook, (ISBN: 3-540-22136-0).
2. D. Drikakis and B. Geurts<sup>2</sup> (Eds) *Turbulent Flow Computation*, Kluwer Academic Publishers, 369 pages, 2002 (ISBN: 1-4020-0523-7).

## Journal publications (Refereed)<sup>3</sup>

1. K. Ritos, I. Kokkinakis, D. Drikakis, Performance of High-Order Implicit Large Eddy Simulations, *Computers and Fluids*, in print 2018, doi.org/10.1016/j.compfluid.2018.01.030 (IF 2.313)
2. S. Loiodice, D. Drikakis, A. Kokkalis, An efficient algorithm for the retarded time equation for noise from rotating sources, *Journal of Sound and Vibration*, 412, 336–348, 2017, (Impact Factor 2.593)
3. M. Frank, D. Drikakis, Solid-like heat transfer in confined liquids, *Microfluidics and Nanofluidics*, 21, 9, 6 p., 148, 2017, (IF 2.344)
4. K. Ritos, I. Kokkinakis, D. Drikakis, Physical insight into the accuracy of finely-resolved iLES in turbulent boundary layers, *Computers and Fluids*, in print, 2017, doi.org/10.1016/j.compfluid.2017.07.018, (IF 2.313)
5. C. Barmparousis, D. Drikakis, Multi-dimensional quantification of uncertainty and application to a turbulent mixing model, *Int. J. Numer. Meth. Fluids* 2017; 0:1–19 (in print), DOI: 10.1002/fld.4385, (IF 1.652)
6. K. Ritos, I. Kokkinakis, D. Drikakis, S. Spottswood, Implicit Large Eddy Simulation of Acoustic Loading in Supersonic Turbulent Boundary Layers, *Physics of Fluids*, 29, 046101, 2017, (IF 2.232)
7. M. Lappa, D. Drikakis, and I. Kokkinakis, On the propagation and multiple reflections of a blast wave travelling through a dusty gas in a closed box, *Physics of Fluids*, 29, 033301, 2017 (IF 2.232)
8. M. Papanikolalou, M. Frank, D. Drikakis, Effects of surface roughness on shear viscosity, *Physical Review E*, Vol. 95, 033108, 2017, (IF 2.366)
9. A. Antoniadis, P. Tsoutsanis, D. Drikakis, Assessment of high-order finite volume methods on unstructured meshes for RANS solutions of aeronautical configurations, *Computers and Fluids*, Volume 146, Pages 86-104, 2017, (IF 2.313)
10. M. Papanikolalou, M. Frank, D. Drikakis, Nanoflow over a fractal surface, *Physics of Fluids*, 28(8), 082001, 2016, (IF 2.232)
11. K. Deepak, M. Frank, D. Drikakis, and N. Asproulis, Thermal Properties of a Water-Copper Nanofluid in

<sup>1</sup>Los Alamos National Laboratory (now at Sandia Labs), USA.

<sup>2</sup>University of Twente, The Netherlands.

<sup>3</sup> Impact factors according to December 2017 Web of Science.

- a Graphene Channel, *J. Comput. Theor. Nanosci.* 13, 79-83, 2016.
12. D. Drikakis, D. Kwak, C. Kiris, Computational Aerodynamics: Advances and Challenges, *The Aeronautical Journal*, 120, 1223, pp 13-36, 2016, (IF 0.525)
  13. I. Kokkinakis, D. Drikakis, D.L. Youngs, R.J.R. Williams, Two-equation and multi-fluid turbulence models for Rayleigh-Taylor mixing, *Int. Journal of Heat and Fluid Flow*, Volume 56, Pages 233-250, 2015, (IF1.873)
  14. T. Oggian, D. Drikakis, D. Youngs, R. Williams, Computing multi-mode shock-induced compressible turbulent mixing at late times, *Journal of Fluid Mechanics*, Volume 779, 2015, Pages 411-431, (IF 2.821)
  15. D. Drikakis, M. Frank, Advances and challenges in computational research of micro and nano flows, *Microfluidics and Nanofluidics*, Volume 19, Issue 5, Pages 1019-1033, 2015, (IF 2.344)
  16. M. Frank, D. Drikakis, N. Asproulis, Thermal Conductivity of Nanofluid in Nanochannels, *Microfluidics and Nanofluidics*, Volume 19, Issue 5, Pages 1011-1017, 2015, (IF 2.344)
  17. Tsoutsanis, I. Kokkinakis, L. Konozy, D. Drikakis, R.J.R. Williams, D.L. Youngs, Comparison of structured- and unstructured-grid, compressible and incompressible methods using the vortex pairing problem *Computer Methods in Applied Mechanics and Engineering*, Volume 293, 15 August 2015, Pages 207–231, (IF 3.949)
  18. D. Drikakis, N. Asproulis, and D. Mantzalis, Carbon Dioxide Capture Using Multi-Walled Carbon Nanotubes, *J. Comput. Theor. Nanosci.* 12, 3981-3993, 2015.
  19. I. Kokkinakis, D. Drikakis, Implicit Large Eddy Simulation of Weakly-Compressible Turbulent Channel Flow, *Computer Methods in Applied Mechanics and Engineering*, 287, 229–261, 2015, (IF 3.949)
  20. D. Mantzalis, N. Asproulis, D. Drikakis, The effects of defects in CO<sub>2</sub> diffusion through Carbon Nanotubes, *Chemical Physics Letters*, 608, 244-248, 2014, (IF 1.815)
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  22. L. Könözy, D. Drikakis, A Unified Fractional-Step, Artificial Compressibility and Pressure-Projection Formulation for Solving the Incompressible Navier-Stokes Equations, *Communications in Computational Physics*, Vol 16, 5, 1135-1180, 2014, (IF 2.004)
  23. N. Asproulis, D. Drikakis, Parallel HPC Implementation of Boundary Conditions in Hybrid Molecular/Computational Fluid Dynamics Methods, *Algorithms Journal of and Computational Technology*, Vol. 8, No. 4, 357-368, 2014.
  24. T. Oggian, D. Drikakis, D. Youngs, R. Williams, A hybrid compressible-incompressible CFD method for Richtmyer-Meshkov mixing, *ASME J. Fluids Eng.*, Volume 136, Issue 9, Article number 091210, 2014, (IF 1.437)
  25. M. G. Probyn, B. Thornber, D. Drikakis, D. Youngs, R. Williams, An Investigation into Non-Linear Growth Rate of 2D and 3D Single-Mode Richtmyer-Meshkov Instability, *ASME J. Fluids Eng.*, Volume 136, Issue 9, Article number 091208, 2014, (IF 1.437)
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  29. Z.A. Rana, B. Thornber, D. Drikakis, Dynamics of Sonic Hydrogen Jet Injection and Mixing Inside Scramjet Combustor, *Journal of Engineering Application in Computational Fluid Mechanics*, Vol 7, 1, 13-39, 2013, (IF 1.167)

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