

黃俊誠 副教授 著作目錄

期刊論文(2008-2015)

1. J. C. Huang, Y. H. Lai, C. S. Guo, J. Y. Yang, Simulation of Two-Dimensional Scramjet Combustor Reacting Flow Field Using Reynolds Averaged Navier-Stokes WENO Solver, *Communications in Computational Physics*, Vol. 18, No. 4, pp. 1181-1210 October 2015 (SCI)
2. J. C. Huang, J. Y. Yang, Y. H. Lai, J. S. Guo, "Simulation of axisymmetric scramjet inlet flow fields using anti-diffusive WENO Navier-Stokes solver," *Journal of Mechanical Science and Technology*, Vol. 29 (5) (2015) Pages 1~8 (SCI)
3. J. C. Huang, T.S. Hsieh and J. Y. Yang, "A Conservative Discrete Ordinate Method for Solving Semiclassical Boltzmann-BGK Equation with Maxwell Type Wall Boundary Condition," *J. Comput. Physics*, Vol. 290, 1 June 2015, Pages 112–131 (SCI) MOST 103-2221-E-019 -017 -MY3
4. J. Y. Yang, C. Y. Yan, J. C. Huang and Z. H. Li, "Numerical solutions of the semiclassical Boltzmann ellipsoidal-statistical kinetic model equation," *Proc. R. Soc. A*. 2014 470 20140061; (published 18 June 2014) (SCI)
5. J. Y. Yang, C. Y. Yan, M. Diaz, J. C. Huang, Z. H. Li and H. X. Zhang, "Numerical solutions of ideal quantum gas dynamical flows governed by semiclassical ellipsoidal-statistical distribution," *Proc. R. Soc. A*. 2014 470 2161 20130413 1471-2946; doi:10.1098/rspa.2013.0413 (published 30 October 2013) (SCI)
6. J.-C. Huang, Kun Xu*, Pubing Yu, "A Unified Gas-kinetic Scheme for Continuum and Rarefied Flows III: Microflow Simulations," *Communications in Computational Physics*, Vol. 14, No. 5, pp. 1147-1173 November 2013 (SCI) NSC 100-2221-E-019 -048 -MY3
7. Zuu-Chang Hong*, Juan-Chen Huang, Shi-Min Lee, and Hon-Wei Lin, "Numerical Analysis of the Sudden Expansion Structure of a Scramjet Flow by DSMC Method," *Journal of the Chinese Institute of Engineers*, Vol. 37, No.6, pp. 815-826, DOI: 10.1080/02533839.2013.839421 (SCI)
8. T.-Y. Hsieh, H. Lin, T.-J. Hsieh, J.-C. Huang*, "Thermal conductivity modeling of periodic porous silicon with aligned cylindrical pores," *Journal of Applied Physics*, vol. 111, 124329, 2012. (SCI) NSC 100-2221-E-019 -048 -MY3
9. S.-W. Juang, M.-H. Chang* and J.-C. Huang, "Applying the ARPSO Algorithm to Shafting Alignment Optimization Design," *Brodogradnja*, Vol. 63, No. 2, June, 2012, pp. 140-152.
10. I.-N. Tsai, J.-C. Huang, S.-S Tsai and J. Y. Yang*, "Unsteady relativistic shock wave diffraction by cylinders and spheres," *Physical Review E*, 85, 026317, 2012. DOI: 10.1103/PhysRevE.85.026317 (SCI)
11. J.-C. Huang, Kun Xu*, Pubing Yu, "A Unified Gas-kinetic Scheme for Continuum and

- Rarefied Flows II: Multi-dimensional Cases,” Communications in Computational Physics, Vol. 12, No. 3, Sep. 2012, pp. 662-690, doi: 10.4208/cicp. 030511.220911a (SCI) NSC 100-2221-E-019 -048 -MY3
12. J.-C. Huang*, H. Lin, T.-J. Hsieh, T.-Y. Hsieh, “Parallel Preconditioned WENO Scheme for Three-dimensional Flow Simulation of NREL Phase VI Rotor,” Computers and Fluids, Vol. 45, Issue 1, June 2011, pp. 276-282. (SCI)
 13. J.-C. Huang*, “A Conservative Discrete Ordinate Method for Model Boltzmann Equations,” Computers and Fluids, Vol. 45, Issue 1, June 2011, pp. 261-267. (SCI) NSC 96-2221-E-343 -003 -MY2
 14. K. Xu*, J.-C. Huang, “An improved unified gas-kinetic scheme and the study of shock structures,” IMA Journal of Applied Mathematics, Volume 76, Number 5, 16 October 2011, pp. 698-711(14), doi: 10.1093/imamat /hxr002, online: March 16, 2011. (SCI) NSC 100-2221-E-019 -048 -MY3
 15. K. Xu*, J.-C. Huang, “A Unified Gas-kinetic Scheme for Continuum and Rarefied Flows,” Journal of Computational Physics, Vol. 229, Issue 20, 1 Oct. 2010, 7747-7764 (SCI) NSC 96-2221-E-343 -003 -MY2
 16. J.-C. Huang, H. Lin and J.-Y. Yang*, “Implicit Preconditioned WENO Scheme for Steady Viscous Flow Computation,” Journal of Computational Physics, Vol. 228, Issue 2, Feb. 2009, 420-438. (SCI) **SCIENCE DIRECT TOP 25, List of Most Downloaded Articles Ranked 17th on the Top 25 for Journal of Computational Physics – October to December 2008**
 17. J.-C. Huang, T. Y. Hsieh, J. Y. Yang* and K. Takayama, “A Numerical Study of Oblique Shock Wave Reflections over Wedges in a Quantum Gas,” Shock Wave Journal, Vol. 18, No. 3, Aug. 2008, 193–207. (SCI) NSC 96-2221-E-343 -003 -MY2
 18. H. M. Cave, K.-C. Tseng, J.-S. Wu*, M. C. Jermy, J.-C. Huang and S. P. Krumdieck, “Implementation of Unsteady Sampling Procedures for the Parallel Direct Simulation Monte Carlo Method,” Journal of Computational Physics, Vol. 227, 2008, 6249–6271. (SCI)

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2. K. Xu, J.-C. Huang, “A Unified Gas-kinetic Scheme for Continuum and Rarefied Flows,” Journal of Computational Physics, Vol. 229, Issue 20, 1 Oct. 2010, 7747-7764 (SCI) (101 cited in Web of Science, 150 cited in Google Scholar)

Special Publications

3. J. Y. Yang, T.-J. Hsieh and J.C. Huang, Implicit Implementation of Variant WENO Schemes for Compressible Flow Computations, Chapter 9 in Computational Fluid Dynamics Review 2010,

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