

Chris Baker - Fluid Mechanics papers

- C.J. Baker, 1979, "The laminar horseshoe vortex", Journal of Fluid Mechanics, 95, 2, 347-367, <http://dx.doi.org/10.1017/S0022112079001506>
- C.J. Baker, 1980, "Theoretical approach to prediction of local scour around bridge piers", Journal of Hydraulics Research, 18, 1, 1-12, <http://dx.doi.org/10.1080/00221688009499564>
- C.J. Baker, 1981, "New design equations for scour around bridge piers", Journal of the Hydraulics Division A.S.C.E., 107, HY4, 507-511, [http://ascelibrary.org/doi/pdf/10.1061/\(ASCE\)0733-9429\(1983\)109%3A5\(767\)](http://ascelibrary.org/doi/pdf/10.1061/(ASCE)0733-9429(1983)109%3A5(767))
- C.J. Baker, L.C. Squire, 1982, "Turbulent boundary layer development on a two dimensional aerofoil with supercritical flow at low Reynolds number", Aeronautical Quarterly, 33, 2, 174-198
- C.J. Baker, 1985, "The position of points of maximum and minimum shear stress upstream of cylinders mounted normal to flat plates", Journal of Wind Engineering and Industrial Aerodynamics, 18, 3, 263-274, [http://dx.doi.org/10.1016/0167-6105\(85\)90085-6](http://dx.doi.org/10.1016/0167-6105(85)90085-6)
- K.R. Elliott, C.J. Baker, 1985, "The effect of pier spacing on scour around bridge piers", Journal of the Hydraulics Division A.S.C.E., 111 HY7, 1105-1110, [http://ascelibrary.org/doi/pdf/10.1061/\(ASCE\)0733-9429\(1985\)111%3A7\(1105\)](http://ascelibrary.org/doi/pdf/10.1061/(ASCE)0733-9429(1985)111%3A7(1105))
- C.J. Baker, 1991, "The oscillation of horseshoe vortex systems", A.S.M.E. Journal of Fluids Engineering 113, 3, 489-495, <http://dx.doi.org/10.1115/1.2909523>
- R.P. Hoxey, P.J. Kettlewell, A.M. Meehan, C.J. Baker, X. Yang, 1996, "The aerodynamics and ventilation of poultry transport vehicles; Part 1 Full scale experiments" Journal of Agricultural Engineering Research 65, 77-83 (awarded IAE Douglas Bomford trust Award 1996), <http://dx.doi.org/10.1006/jaer.1996.0081>
- C.J. Baker, S. Dalley, X. Yang, P.J. Kettlewell, R.P. Hoxey, 1996, "The aerodynamics and ventilation of poultry transport vehicles; Part 2 Wind tunnel experiments" ,Journal of Agricultural Engineering Research 65, 97-113 (awarded IAE Douglas Bomford trust Award 1996), <http://dx.doi.org/10.1006/jaer.1996.0083>
- S. Dalley, C.J. Baker, X. Yang, P.J. Kettlewell, R.P. Hoxey, 1996, "The aerodynamics and ventilation of poultry transport vehicles; Part 3 Internal flow field calculations", Journal of Agricultural Engineering Research 65, 115-127 (awarded IAE Douglas Bomford trust Award 1996), <http://dx.doi.org/10.1006/jaer.1996.0081>
- A.D. Quinn, C.J. Baker, 1997, "An investigation of the ventilation of a day old chick transport vehicles", Journal of Wind Engineering and Industrial Aerodynamics 67-68, 305-311, [http://dx.doi.org/10.1016/S0167-6105\(97\)00081-0](http://dx.doi.org/10.1016/S0167-6105(97)00081-0)
- C.J. Baker, 2010, "The calculation of cricket ball trajectories". Journal of Mechanical Engineering Science, Proceedings of the IMechE C, 224, 1947-1958, DOI: Awarded SAGE prize in 2011 for best paper in Journal in 2010,
- C J Baker, 2013, "A unified framework for the prediction of cricket ball trajectories in spin and swing bowling", IMechE Proceedings P – Journal of Sports Engineering, 227, 1 31 – 38, <http://dx.doi.org/10.1177/1754337112440793>
- Robertson, F., Bourriez, F., He, M., Soper, D., Baker, C., Hemida, H. & Sterling, M. (2019) "An

experimental investigation of the aerodynamic flows created by lorries travelling in a long platoon”, Journal of Wind Engineering and Industrial Aerodynamics 193, 103966, <https://doi.org/10.1016/j.jweia.2019.103966>

He, M., Huo, R., Hemida, H., Bourriez, F., Robertson, F., Soper, D., Sterling, M. & Baker, C. (2019) “Detached eddy simulation of a closely running lorry platoon”, Journal of Wind Engineering and Industrial Aerodynamics, 193, 103956, <https://doi.org/10.1016/j.jweia.2019.103956>

F. H. Robertson, D. Soper, C. Baker (2020) Unsteady aerodynamic forces on long lorry platoons, Journal of Wind Engineering and Industrial Aerodynamics, 209, 104481, <https://doi.org/10.1016/j.jweia.2020.104481>