

Chris Baker - Climate, Resilience and Risk papers

M An, C Baker, J Zeng, 2005, "A fuzzy logic based approach to qualitative risk modeling in the construction process", World Journal of Engineering 2, 1-12

M An, S Huang, C J Baker, 2007, "Railway risk assessment – the fuzzy reasoning approach and fuzzy analytic hierarchy process approaches: a case study of shunting at Waterloo depot", Proceedings of the I.Mech.E, Part F, Journal of Rail and Rapid Transit 221, 3, 365-383, <http://dx.doi.org/10.1243/09544097JRRT106>

K. Dobney, C. J. Baker, A. D. Quinn, L. Chapman, 2008, "Quantifying the Effects of High Summer Temperatures due to Climate Change on Buckling and Rail Related Delays in south-east UK". Meteorological Applications 16, 2, 245-251, <http://dx.doi.org/10.1002/met.114>

K. Dobney, C. J. Baker, L. Chapman, A. D. Quinn, 2009, "The future cost to the UK's railway network of heat related delays and buckles caused by the predicted increase in high summer temperatures due to climate change", Proceedings of the Institute of Mechanical Engineers Part F: Journal of Rail and Rapid Transit, 224, 25-34, <http://dx.doi.org/10.1243/09544097JRRT292>

Tomlinson C, Chapman C, Thornes J, 2010, "Derivation of Birmingham's summer surface urban heat island from MODIS satellite images", International Journal of Climatology, <http://dx.doi.org/10.1002/joc.2261>

C J Tomlinson, L Chapman, J E Thornes and C J Baker, 2011, "Including the urban heat island in spatial heat health risk assessment strategies: a case study for Birmingham, UK", International Journal of Health Geographics. <http://www.ij-healthgeographics.com/content/10/1/42>

M An, Y Chen, C Baker, 2011, "A fuzzy reasoning and fuzzy-analytical hierarchy process based approach to the process of railway risk information: A railway risk management system", Information Sciences 181, 3946–3966, <http://dx.doi.org/10.1016/j.ins.2011.04.051>

S Blenkinsop, Y Zhao, J Quinn, F Berryman, J Thornes, C Baker, H J Fowler, 2012, "Downscaling future wind hazard for SE London using the UKCP09 regional climate model ensemble", 53, 141–156, <http://dx.doi.org/10.3354/cr01091>

C J Tomlinson, L Chapman, J E Thornes, C J Baker, 2011, "Remote sensing land surface temperature for meteorology and climatology: a review", Meteorological Applications 18, 296-306, <http://dx.doi.org/10.1002/met.287>

C D F Rogers, C J Bouch, S Williams, A R G Barber, C J Baker, J R Bryson, D N Chapman, L Chapman, J Coaffee, I Jefferson and A D Quinn, 2012, "Resistance and Resilience – Paradigms for Critical Local Infrastructure", Proceedings of the ICE - Municipal Engineer 165, 2, 73-83 <http://dx.doi.org/10.1680/muen.11.00030>

M. Anyala, J.B. Odoki and C.J. Baker, 2012, "Hierarchical asphalt pavement deterioration model for climate impact studies", International Journal of Pavement Engineering, 15, 3, 251-266, <http://dx.doi.org/10.1080/10298436.2012.687105>

C J Tomlinson, L Chapman, J E Thornes, C J Baker, T Prieto-Lopez, 2012, "Comparing night-time satellite land surface temperature from MODIS and ground measured air temperature across a conurbation", Remote Sensing Letters 3 8, 2012. Awarded "The Taylor & Francis Remote Sensing Letters Award" 2013 for the best letter published in the Remote Sensing Letters publication during the previous calendar year, <http://dx.doi.org/10.1080/01431161.2012.659354>

C J Tomlinson, T Prieto-Lopez, R Bassett, L Chapman, X-M Cai, J E Thornes, C J Baker 2013 "Showcasing urban heat island work in Birmingham – measuring, monitoring, modelling and more", *Weather* **68**, 2, <http://dx.doi.org/10.1002/wea.1998>

Jaroszweski, D., Hooper, E., Baker, C., Chapman, L. & Quinn, A. (2015) The impacts of the 28 June 2012 storms on UK road and rail transport, *Meteorological Applications*. **22**, 3, 470-476, <http://dx.doi:10.1002/met.1477>

I R Bartle, C J Bouch, C J Baker, C D F Rogers (2018) End-user Innovation of Urban Infrastructure: Key Factors in the Direction of Development, accepted for publication in the Proceedings of the Institution of Civil Engineers; Municipal Engineering, <https://www.icevirtuallibrary.com/doi/abs/10.1680/jmuen.18.00008>

M. Mohammadi, J. M. Finnan, C. J. Baker and M. Sterling (2020) The potential impact of climate change on oat lodging in the UK and Republic of Ireland, *Advances in Meteorology*, 4138469, 16pp <https://doi.org/10.1155/2020/4138469>