Peer-reviewed Publications


126. Kamaldeen Okuneye and Abba B. Gumel. Analysis of a temperature- and rainfall-dependent model for malaria transmission dynamics. Mathematical Biosciences. http://dx.doi.org/10.1016/j.mbs.2016.03.013. This is one of the most downloaded articles in the journal for the last 90 days (http://www.journals.elsevier.com/mathematical-biosciences/most-downloaded-articles).


67. M.C. Boily, K. Desai, B. Masse and A.B. Gumel. The incremental role of male circumcision on HIV transmission through its protective effect against other sexually transmitted infections: from efficacy to effectiveness to population-level impact. Sexually Transmitted Infections. 84(2008): II28-II34. DOI.


45. C. Bowman, A.B. Gumel, P. van den Driessche, J. Wu and H. Zhu. A mathematical model for assessing control strategies against West Nile virus. Bulletin of Mathematical Biology. 67(2005): 1107-1133. *(This paper was among the Top 25 Hottest Articles for July to September 2005)* [http://top25.sciencedirect.com/subject/agricultural-and-biological-sciences/1/journal/bulletin-of-mathematical-biology/00928240/archive/5]. *This article has also been selected by Thomson Reuters Essential Science Indicators as one of the most cited paper in its research area (paper to also be highlighted on the websites of the Society of Mathematical Biology and the journal’s).*


Submitted Papers


Other Publications

(i) A.B. Gumel (Guest Editor) Special Issue of Journal of Difference Equations and Applications dedicated to the 60th birthday of Ronald E. Mickens. Vol. 9, nos. 11& 12, pp. 989-1128, 2003;


