



# *Certificate of Publication*



This is to confirm that

**Şenol Çelik**

Published following article

**Catalan Random Walks and Barrier Crossing Probabilities in  
Stochastic Processes**

Volume 14, Issue 02, pp: 238-248

[www.ijres.org](http://www.ijres.org)

**A Peer Reviewed referred Journal**

**Impact Factor : 7.52**

**International Journal of Research in Engineering and  
Science (IJRES)**

**ISSN: 2320-9364 IJRES is Peer Reviewed Refereed.**

**Editor-In-Chief**