











[28] M. Das, *et al.*, "Zirconia based nucleic acid sensor for mycobacterium tuberculosis detection," *Applied Physics Letters*, 96(13), pp. 133703- 133710, 2010.

### Author Profile



**Dr. Ahmed Mishaal: 2002, 2014:** received the Masters and Ph. D degrees in Chemistry from Anbar University. **2004-2015:** worked as Faculty member and currently working as Assistant Professor in Chemistry Department of Faculty of Sciences, Anbar University, (Iraq). **Teaching Specializations:** Physical chemistry, Nano chemistry, Sono chemistry, Surface chemistry, Photo chemistry, and Pesticides chemistry.