



SDI Review Form 1.6

Journal Name:	British Journal of Applied Science & Technology
Manuscript Number:	2014_BJAST_15679
Title of the Manuscript:	RESEARCH OF IMPLANTS COATING STRUCTURE AND DURABILITY
Type of the Article	

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



SDI Review Form 1.6

PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<u>Compulsory</u> REVISION comments	1. The author only examined the friction test of the UHMWPE coating. It should be discussed the limitation of this paper and what examination should also be tested in the future. 2. In the last paragraph, the authors mentioned the implant surface should be prepared and modified its hydrophilic and adhesive properties, why did the author not modify before coating? And it also need to discuss the disadvantage of the magnetron sputtering. 3. Is it possible to show the SPM result after completed friction test with a table containing measurable numbers? Just photograph seems not enough to demonstrate.	1.2. The friction test of only new coating was analysed. These are preliminary experiment with non-modified samples. The next step would be testing the samples of modified surfaces. Magnetron sputtering technology is characterized by: oxide coatings can be sputtered (reactive sputtering), excellent layer uniformity, very smooth sputtered coatings (no droplets). Magnetron sputtering technology has some disadvantages: slow deposition speed and adhesion of coatings is lower and density of the sputtered layers may be lower. 3. I have made the correction in the article
<u>Minor</u> REVISION comments	Language should be revised	I agree with a reviewer
<u>Optional/General</u> comments	Modification of implant surfaces is one of the main research areas in implantology. This article is significant by studying different coating on UHMWPE using scanning probe microscope.	