Answers to Reviewer’s comments

We are grateful for your comments on the manuscript. Your comments have been carefully examined and replied as following. All modified parts have been clearly marked in this revised manuscript.

Reply to Reviewers' comments:

Referee 2:

1. The high specific surface area of the samples received by the authors is quite debatable. Other authors received a nanorods with a much larger area ("Synthesis and Characterization of ZnO Nanorods Based on a New Gel Pyrolysis Method," Journal of Nanomaterials, vol. 2011, Article ID 628203, 11 pages, 2011. https://doi.org/10.1155/2011/628203). I suggest removing the words "High Surface Area" in the title. Moreover in the abstract, information about the specific surface area has been removed.

Ans.: We thank your important comment on our revised manuscript. According to your comment, we delete the “High Surface Area” in the title. The title of this revised manuscript become “Antibacterial Applications on Staphylococcus aureus Using Antibiotic Agent/Zinc Oxide Nanorod Arrays/Polyethylethylketone Composite Samples”

2. The description of the surface analysis ("The gas for the analysis of sample’s surface area is the nitrogen gas with the pressure of set at 3 mmHg. Because the measurement of specific surface area for samples is calculated using the amount of nitrogen gas absorbed at sample surface, the sample has to be kept at the temperature of 90°C in order to avoid the influence of water content in the samples.") it is unacceptable.

Please provide the following information:
- how the samples were prepared before the measurement (temperature, time, gas environment)
- type of method (was it the BET method ? (nitrogen adsorption method based on the linear form of the BET (Brunauer-Emmett-Teller) isotherm equation))
- used the adsorptive range P/Po.
Ans.: We thank your important comment on our revised manuscript. According to your comment, we have added the detail procedure for the sample preparation, type of measurement and the adsorptive range P/Po in this revised manuscript. Please find them in line 152-162 in the revised manuscript.

“For the measurement of specific surface area of a sample, a degassing process has to be carried out in order to remove the gases that may have physically absorbed onto the sample surface. For the degassing process, the sample (of around 0.3 g) was put in a container loaded in the specific surface analyzer. The temperature and pressure of the container were kept at 90°C and 3µm-Hg in order to remove the gases physically absorbed onto the sample, respectively. Total degassing process time was kept at 1000 min in order to obtain a clean sample. After the degassing process, total weight of the clean sample without any gas absorbed on the sample can be obtained using the weighting method. The gas for the analysis of sample’s surface area is the nitrogen gas with the temperature kept at 77.4 K (the boiling point of nitrogen). The special surface area of sample was calculated using the nitrogen adsorption method based on the linear form of the BET (Brunauer-Emmett-Teller) isotherm equation with the absorption range of P/Po kept in 0.06-0.6.”

3. Was the phosphate buffer solution (PBS) made or bought (171-172) ?

Ans.: We really thank your important comment. We bought the phosphate buffer solution from the Sigma-Aldrich Co. It was added in the line 178 in the revised manuscript.