**Evaluation of the anisotropic grain boundaries and surfaces of α-U via molecular dynamics**

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We thank the Editors and the Reviewers for their comments, and we feel the paper has been strengthened and has gained clarity due to their efforts. Comments to their revision requests are given below in blue.

Reviewer #1:

Thanks for answering all my questions. I think the paper can be accepted with some minor revisions:

1) For the equation (1), please check if there is a factor 2 in the denominator due to 2 interfaces?

Thank you for your observation. In equation (1), A was defined as the total interfacial area, so we did not include 2 in the denominator. However, we have changed the equation and text as per your recommendation. Please refer to line 122 to 127.

2)  Author sometimes uses "symmetric tilt" or "symmetric-tilt", please keep consistent.

Thank you for your comment. We have revised the manuscript and corrected it.

3) In page 4 line 14, there should be a space between gamma and surface. In line 49, Figure 2a(a) should be Figure 2(a). There still existed other typos in the manuscript and please check.

Thank you for identifying the typos. We have proofread the whole manuscript once again to remove additional typos.

Reviewer #2:

Authors significantly improved this article. I recommend this paper for publication.

Thank you for your encouraging remark.