



SDI FINAL EVALUATION FORM 1.1

PART 1:

Journal Name:	Physical Science International Journal
Manuscript Number:	Ms_PSIJ_27566
Title of the Manuscript:	Chemical and Electrochemical Deposition of Ag onto Si for Fabrication of Si Nanowires and the Seebeck Effect Characterization
Type of the Article	Review paper

PART 2:

FINAL EVALUATOR'S comments on revised paper (if any)	Authors' response to final evaluator's comments
<p>Harnessing the thermoelectric properties of nanomaterials is one of the promising ways to address the global energy and environmental challenges (Journal of Nanomaterials 2015, 524095). Here the authors compare the Seebeck coefficient of Si nanowires fabricated with the assistance of different Ag nanoparticles, which are deposited by chemical and electrical methods, respectively. It seems that Si nanowires synthesized with assistance of electrical-deposited Ag nanoparticles show higher Seebeck coefficient. Such a conclusion should be important to the community, however further experiment are needed to support such a claim. To decouple the effect of etching time on the Seebeck coefficient, either one of the following experiment should be supplemented in a revised manuscript:</p> <p>(1) Seebeck coefficient characterization of Si NWs fabricated by chemically-deposited Ag NP with an etching time of 60 min.</p> <p>(2) Seebeck coefficient characterization of Si NWs fabricated by electrically-deposited Ag NP with an etching time of 30 min.</p>	<p>The reviewer provides a very constructive point. We made the experiments for the two cases and provided the measurement results. Here are the updates in the newest version. (We have added data in Table 1 to address the issue. A new paragraph following the Table is inserted. New reference [38] is added.)</p> <p>[1] Seebeck coefficient of Si NWs fabricated by chemically-deposited Ag NP with an etching time of 60 min is added as row 5 in Table 1.</p> <p>[2] Seebeck coefficient of Si NWs fabricated by electrically-deposited Ag NP with an etching time of 30 min is added as row 4 in Table 1.</p>