Accepted Manuscript

Flow and heat transfer analysis of ${\rm TiO}_2/{\rm water}$ nanofluid in a ribbed flat-plate solar collector

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PII: S0960-1481(18)30062-4

DOI: 10.1016/j.renene.2018.01.056

Reference: RENE 9661

To appear in: Renewable Energy

Received Date: 29 September 2017

Revised Date: 9 December 2017

Accepted Date: 16 January 2018

Please cite this article as: Bazdidi-Tehrani F, Khabazipur A, Vasefi SI, Flow and heat transfer analysis of TiO₂/water nanofluid in a ribbed flat-plate solar collector, *Renewable Energy* (2018), doi: 10.1016/j.renene.2018.01.056.

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