Name: Xiao Tang
Job Title: Ph.D. Student
Institution: Virginia Tech
Title of Work Used: Vertically and Horizontally Self-assembled Magnetoelectric Heterostructures with Enhanced Properties for Reconfigurable Electronics
Copyright Holder: Xiao Tang
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Description of Work: Dissertation of Xiao Tang
Date of Evaluation: January 3, 2020
Date of Intended Use: January 3, 2020

Describe the **Purpose** and Character of Your Intended Use:

[+] Use is for "criticism, comment, news reporting, teaching, (including multiple print copies for classroom use), scholarship or research"
[+] Use is not-for-profit
[+] Use is transformative, i.e. it uses the existing work in a new way (creates an index to the work) or for a new purpose (parody, pastiche, instructional materials, etc.) Transformative works are favored because the purpose of U.S. Copyright Law is to encourage the development and dissemination of new knowledge to benefit the public and thereby advance learning.
[+] Use is clearly defined and is restricted in scope (limited duration, not iterative, restricted access, etc.)
Describe the **Nature** of Your Intended Use of the Copyrighted Work:

- Work to be used has been previously PUBLISHED
- Work to be used contains limited new knowledge, content, or creative expression (in relation to previously copyrighted works)
- Work to be used is primarily of a factual nature (non-fiction, collection of facts, etc.)
- Original work was not created and/or has not been marketed for the stated purpose of the proposed use

![Fair - Unfair Scale]

Describe the **Amount** of Your Intended Use in Relation to the Copyrighted Work as a Whole:

- Only limited and reasonable portions will be used
- The portion used is not the "heart" of the work (the portion considered most central to the work as a whole)
- Only the amount required to achieve the stated, socially-beneficial purpose or objective will be used (be that educational, artistic, scholarly, journalistic, etc.)

![Fair - Unfair Scale]

Describe the **Effect** of Your Intended Use on the Potential Market or Value of the Copyrighted Work:

- The work is NOT currently under commercial exploitation (out of print, no licensing available, etc.)
- A market for the work as it will be used is absent or is negligible & use of the work will have little or no negative impact on its value or potential value
- Use of the work has the potential to create or improve the market for the work
- The copy of the work to be used is a legal copy
- Proper attribution will be given with the intended use

![Fair - Unfair Scale]
The Average "Fairness Level," Based on Your Rating of Each of the 4
Factors, Is:

[see tool disclaimer for important clarifying information]:

Fair     ✔️  ☐  ☐  ☐  ☐  ☐  Unfair

Based on the information and justification I have provided above, I, Xiao Tang, am asserting this use is FAIR under Section 107 of the U.S. Copyright Code.

Signature: ☒
Date of Signature: 01/03/2020

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