

National Yang Ming Chiao Tung University

Information and Co-author Contribution Statement

of Thesis by Publication

To maintain academic and research integrity, the candidate of TBP (hereinafter referred to as the declarant) hereby declares the relevant information of the TBP and the contribution of co-authors.

1、The Declarant's Profile

(1) Name: Jhen-Dong Lin
(2) Department/Program: Department of Electrophysics
(3) The thesis title : A First-Principles Based of Excitions in Transition Metal Dichalcogenide Monolayers and Near-field Interaction

2、The Relevant Information of My TBP

The Information of Each Publication note 1	
In which chapters of the thesis is the publication included	Chapter3 FRET in 0D-2D system
Type: Academic Work in Journals or Conferences	
Journal or Conference Name	npj 2D Materials and Applications
Work Title	Essential role of momentum-forbidden dark excitons in the energy transfer responses of monolayer transition-metal dichalcogenides
Publication or Present Status	<p>■ Published or Presented: 2023 07 25 (YYYY MM DD). Link: https://doi.org/10.1038/s41699-023-00414-z</p> <p><input type="checkbox"/> Accepted for Publication or Presentation (Please attach acceptance proof): YYYY MM DD.</p>
Declaration of Contribution by the Author (Student) to this Work Compilation	

Contribution Explanation	Establishing the foundation of Förster resonant energy transfer (FERT) theory; Extending the FRET theory; Performing FRET rate simulations; Analyzing simulation results; Wrote the article
Percent age contribution to the entire academic thesis	30%

Relevant Information and Responsibilities of Co-Authors

Author Order (Please specify corresponding author)	Name	Affiliation of the author as listed in the work	Division of labor (the percentage of contribution must be indicated)	Has this paper been included in the dissertation or faculty promotion work by the following co-authors	Signature <small>note 2</small>	Date
1 st Author	Jhen-Dong Lin	Department of Electrophysics, National Yang Ming Chiao Tung University	Establishing the foundation of Förster resonant energy transfer (FERT) theory; Extending the FRET theory; Performing FRET rate simulations; Analyzing simulation results; Wrote the article (percentage of contribution: 30 %)	No	Jhen-Dong Lin	07/21 2024

2 nd Author	Ping-Yuan Lo	Department of Electrophysics, National Yang Ming Chiao Tung University	Establishing the foundation of Förster resonant energy transfer (FERT) theory; Extending the FRET theory (percentage of contribution: 15 %)	No	Ping-Yuan Lo 7/21, 2024	
3 rd Author	Guan-Hao Peng	Department of Electrophysics, National Yang Ming Chiao Tung University	Performing DFT calculations of MoS ₂ -ML (percentage of contribution: 7.5 %)	No	Guan-Hao Peng 08/12, 2024	
4 th Author	Wei-Hua Li	Department of Electrophysics, National Yang Ming Chiao Tung University	Performing DFT-based BSE calculations of MoS ₂ -ML (percentage of contribution: 7.5 %)	No	Wei-Hua Li 8/10, 2024	
5 th Author	Shiang-Yu Huang	Leibniz Institute of Photonic Technology	Establishing the foundation of Förster resonant energy transfer (FERT) theory (percentage of contribution: 7.5 %)	No	Shiang-Yu Huang 2024.07.21	

6 th Author	Guang- Yin Chen	Departme- nt of Physics, National Chung Hsing University	Establishing the foundation of Förster resonant energy transfer (FERT) theory (percentage of contribution: 7.5)	No		2024.08.13
7 th Author (Corres- pondin- g Author)	Shun- Jen Cheng	Departme- nt of Electroph- ysics, National Yang Ming Chiao Tung University	Conceived and supervised the project; Wrote the article (percentage of contribution: 25)	No		2024.08.09

Notes:

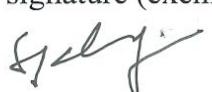
1. If your TBP includes more than one publication, please add forms according to types and fill in the details of the fields below 'Thesis Body Section' and 'The Information of Each Publication'.
2. If the signature of the co-author cannot be obtained for some reason, please explain it in the signature field.

The above statements are all true. If there is any falsehood, the declarant is willing to bear the relevant legal and academic ethical responsibilities.

The declarant's signature: 

The advisor's signature: 

The co-advising professor's signature (exempt if none):

Seal of the department: 

Date: 08.16.2024 (mm-dd-yyyy).