

Name	TRAN Xuan Bao		
Position	Lecturer, Department of Solid State Physics		
Academic Career		<i>Institution</i>	<i>Year</i>
	Doctoral degree	Daegu Gyeongbuk Institute of Science & Technology (DGIST), Korea	2024
	Master degree	Hanoi National University of Education	2018
	Undergraduate/bachelor degree	University of Sciences, TNU	2014
Employment	<i>Position</i>	<i>Employer</i>	<i>Period</i>
	Lecturer	Faculty of Physics - Engineering Physics	2024-Present
	Postdoctoral researcher	Division of Nanotechnology, Daegu Gyeongbuk Institute of Science & Technology (DGIST), Korea	
Research and development projects over the past 5 years	<i>Name of project or research focus</i>	<i>Body funding</i>	<i>Role/ Period</i>
	None	None	None
Industry collaborations over the past 5 years	<i>Project titles</i>		<i>Partners</i>
	None		None
Patents and proprietary rights	<i>Title</i>		<i>Year</i>
	None		None
Important publications over the last 5 years	<i>Selected recent publications from a total of approx.:</i> 1. BX Tran, JH Ha, WC Choi, S Yoon, TH Kim, JI Hong. "Field-Free Control and Switching of Perpendicular Magnetization by Voltage Induced Manipulation of RKKY Interaction". Applied Physics Letters 124, 112409 (2024) 2. B. X. Tran, S. Yang, H. J. Kim, J. H. Ha, S. Yoon, C. Kim, K. W. Moon, W. C. Choi, C. Hwang,* J. I.Hong,* "Electrical manipulation of oxygen ion migrations for the voltage-controlled adjustment ofmagnetic anisotropy and optimized skyrmion generations", Advanced Electronic Materials 8, 2200770(2022). 3. H. J. Kim, K. W. Moon, B. X. Tran, S. Yoon, C. Kim, S. Yang, J.		

	H. Ha, K. An, T. Ju, J. I. Hong,* C.Hwang,* "Field-free switching of magnetization by tilting the perpendicular magnetic anisotropy of Gd/Co multilayers", Advanced Functional Materials 32, 2112561 (2022). 4. S Yang, K. W. Moon, T. S. Ju, C. Kim, H. J. Kim, J. Kim, B. X. Tran, J. I. Hong, C. Hwang,* "Electrical generation and deletion of magnetic skyrmion-bubbles via vertical current injection", Advanced Materials 33, 2104406 (2021). 5. H. J. Kim,# S. G. Je,# K. W. Moon, W. C. Choi, S. Yang, C. Kim, B. X. Tran, C. Hwang,* J. I. Hong,* "Programmable dynamics of exchange-biased domain wall via spin-current-induced antiferromagnet switching", Advanced Science 8, 2100908 (2021). 6. Pham Van Vinh, Dang Duc Dung, Nguyen Bich Ngan & Tran Xuan Bao. The Combination of Bipolar Electrolytic and Galvanic Method to Synthesize CuPt Nano-Alloy Electrocatalyst for Direct Ethanol Fuel Cell. J. Electron. Mater. 48, 6176–6182 (2019).		
Activities in specialist bodies over the last 5 years	<i>Organization</i>	<i>Role</i>	<i>Period</i>
	None	None	None
Website	https://phys.hcmus.edu.vn/		