

# CURRICULUM VITAE



1 Personal Information (I)							
1.1	Family Name	Tran					
	Given Name(s)	Hanh					
	Full Name	Tran Thi Thu Hanh					
1.2	Nationality	VietNam					
1.3	Date of Birth	Date	19	Month	May	Year	1981
1.4	Gender	Male		Female	√		
1.5	Current Status/Position	Lecturer, researcher					
1.6	Department/Faculty	Computational Physics Laboratory, Dep. of Physics.					
1.7	University/Organization	HCM University of Technology, Vietnam National University-HCM, Vietnam					

2 Personal Information (II)						
2.1	Marital Status	Sing le		Married	√	
2.2	Office Address	Faculty of Applied Science, HCM University of Technology (Polytechnic), Ho Chi Minh City National University, 268 Ly Thuong Kiet Street, Distr. 10, Ho Chi Minh City, Vietnam				
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2.3	Home Address	27 F' Nguyen Thi Tan St., Ward 2, Dist 8, Ho Chi Minh City, Vietnam				
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2.4	Preferred Contact Address	E-mail	√	Office		Home

3 Academic Qualifications (I)		
3.1	Bachelors' Degree or Diploma	Bachelor of Physics and Mathematics Education
3.2	Program/Faculty	Physics and Mathematics
3.3	University	Voronezh State Pedagogical University (Russian

		Federation)				
3.4	Year of Completion	Month	July	Year	2005	
3.5	Grade Point Average	Excellent / Honours				

<b>4</b>	<b>Academic Qualifications (II)</b>					
4.1	Master's Degree	Master of Science in Physics				
4.2	Program/Faculty	Solid State Physics				
4.3	University	Voronezh State University (Russian Federation)				
4.4	Year of Completion	Month	June	Year	2007	
4.5	Grade Point Average	Excellent / Honours				

<b>4</b>	<b>Academic Qualifications (III)</b>					
4.1	Doctoral Degree	PhD. in Physics				
4.2	Program/Faculty	Solid State Physics				
4.3	University	University of Tokyo (Japan)				
4.4	Year of Completion	Month	Sept.	Year	2014	
4.5	Grade Point Average	Excellent / Honours				

<b>5</b>	<b>Relevant Qualifications</b>					
5.1	English Language	Excellent				
5.2	Russian Language	Excellent				
5.3	Other Awards, Honours, Certificates	Diploma supplement (by the European Commission, Council of Europe and UNESCO/CEPES, 2007)				

<b>6</b>	<b>Employment Record</b>					
From Sep. 2007 to Sep. 2011	Lecturer in Faculty of Applied Science, Department of Physics, Ho Chi Minh University of Technology - National University of Ho Chi Minh City, Vietnam – 268 Ly Thuong Kiet Street, District 10, Ho Chi Minh City-Vietnam.					
From Oct. 2014 to present	Lecturer in Department of Physics, Ho Chi Minh University of Technology - National University of Ho Chi Minh City, Vietnam – 268 Ly Thuong Kiet Street, District 10, Ho Chi Minh City-Vietnam.					

<b>7</b>	<b>Research Experiences</b>
	<ol style="list-style-type: none"> <li>1. Photoemission Spectroscopy of Cuprates (Bachelor's thesis)</li> <li>2. Evolution of the Fermi Contour with Doping in Cuprates (Specialist's thesis)</li> <li>3. Influence of fluorination on electronic structure of HgBa<sub>2</sub>Ca<sub>2</sub>Cu<sub>3</sub>O<sub>8</sub> Film (Master's thesis)</li> <li>4. Molecular dynamics simulation of structure and diffusion in liquid gallium arsenide and liquid aluminosilicate nanoparticules.</li> <li>5. First-principles Study on Hydrogen Adsorption on Platinum Surfaces.</li> </ol>

<b>8</b>	<b>Research Interest</b>
	<p>I am working on the computer simulation of the materials, as below:</p> <ol style="list-style-type: none"> <li>1. Structure, thermodynamics and phase transitions of the nanoparticles and thin films.</li> <li>2. Freezing/melting of simple monatomic systems.</li> </ol> <p>Recently, the first-principles simulation of materials is investigated, and my research interest is directing more and more toward the energy issue, in detail:</p> <ol style="list-style-type: none"> <li>1. H adsorption on the surface elements is an important target.</li> <li>2. Effects of Hydrogen at interface are interesting and big issues.</li> </ol>

<b>9</b>	<b>Publications</b>
	<ol style="list-style-type: none"> <li>1. O. I. Dubrovskii, Tran Thi Thu Hanh, Influence of fluorination on electronic structure of HgBa<sub>2</sub>Ca<sub>2</sub>Cu<sub>3</sub>O<sub>8</sub> Film, Condensed Matter and Phase Boundaries 9, 108 (2007).</li> <li>2. Tran Thi Thu Hanh, Vo Van Hoang, Molecular dynamics simulation of diffusion in liquid gallium arsenide, J. Comput. Mater. Sci. 49, 221 (2009).</li> <li>3. T. T. T. Hanh, V. V. Hoang, Structure and diffusion in simulated liquid GaAs, Eur. Phys. J. Appl. Phys. 49, 30301 (2010).</li> <li>4. Nguyen Ngoc Linh, Ngo Huynh Buu Trong, Vo Van Hoang and Tran Thi Thu Hanh, Pressured induced structural and dynamic transitions in stimulated liquid aluminosilicate nanoparticules, J. Phys. and Chem. of Liquids 49, 81 (2011).</li> <li>5. Tran Thi Thu Hanh, Vo Van Hoang, Tran Phuoc Duy, Structural properties of simulated liquid GaAs, J. Comput. Mater. Sci. 54, 183 (2012).</li> <li>6. T.T.T. Hanh, Y. Takimoto, O. Sugino, First-Principles Thermodynamic Description of Hydrogen Electroadsorption on the Pt(111) Surface, Surf. Sci. 625, 104 (2014).</li> </ol>

10	Conferences
	<ol style="list-style-type: none"> <li>1. TTTHanh, VVHoang, <i>Molecular dynamics simulation of structural properties of liquid and amorphous GaAs</i>, Third International Meeting on Frontiers of Physics (IMFP2009), Kuala Lumpur, Malaysia (2009).</li> <li>2. HanhTTT, HoangVV, <i>Structure and Diffusion in Simulated Liquid GaAs</i>, The 5<sup>th</sup> Conference of Asian Consortium on Computational Materials Science, HaNoi - Vietnam (2009).</li> <li>3. Tran Thi Thu Hanh, Vo Van Hoang, <i>Molecular Dynamics Simulation of Structure Properties in liquid gallium arsenide</i>, The 35<sup>th</sup> National Conference on Theoretical Physics, Hochiminh-Vietnam (2010).</li> <li>4. Tran Thi Thu Hanh, Vo Van Hoang, <i>Structural properties of simulated liquid GaAs</i>, The 9<sup>th</sup> Asia Pacific Workshop on Materials Physics, HaNoi - Vietnam (2010).</li> <li>5. Tran Thi Thu Hanh, Vo Van Hoang, Tran Phuoc Duy, <i>Structural properties of simulated liquid Ga<sub>n</sub>As<sub>m</sub></i>, 1st International Conference on Computational Science and Engineering (ICST 2011), Hochiminh, Vietnam (2011).</li> <li>6. Tran Thi Thu Hanh, Yoshinari Takimoto, Osamu Sugino, <i>Ab initio Modeling of the Hydrogen Adsorption on Pt(111)</i>, ISSP-CMSI International workshop on Material Simulation in Petaflops era (MASP 2012), Chiba, Japan (2012).</li> <li>7. Thi Thu Hanh, Yoshinari Takimoto, Osamu Sugino, <i>Ab initio Modeling of the Hydrogen Adsorption on Pt(111)</i>, 11th International Conference on the Fundamentals of Adsorption (FOA11), Baltimore, MD, USA (2013).</li> <li>8. Tran Thi Thu Hanh, Yoshinari Takimoto, Osamu Sugino, <i>Ab initio Modelling of the Hydrogen Adsorption on Pt(111)</i>, New developments in condensed matter physics calculation, ISSP, Tokyo, Japan (2013).</li> <li>9. Thi Thu Hanh, Yoshinari Takimoto, Osamu Sugino, <i>Ab initio Modeling of the Hydrogen Adsorption on Pt(111)</i>, 15th International Conference on Solid Surface (ICSS15-IVC-19/ICN+T2013), Paris, France (2013).</li> </ol>

11	Short courses
	<ol style="list-style-type: none"> <li>1. The 5<sup>th</sup> Conference of Asian Consortium on Computational Materials Science, HaNoi - Vietnam (2009).</li> <li>2. School on Modern Topics in Condensed Matter Physics, Nanyang Techonology University, Singapore (2013).</li> </ol>

January 8, 2015  
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