

Curriculum Vitae



Personal data

Name: Vo Van Hoang
Date of birth: November 05, 1964
Citizenship: Vietnamese
Position: Full Professor, Ph.D in Physics
Address: Dept. of Physics, HCM Univ. of Technology (Polytechnic),
 HoChiMinh City National University, 268 Ly Thuong Kiet
 Street, Distr. 10, HoChiMinh City, Vietnam

Male/Female: Male
Place of birth: Tien Giang province, South of Vietnam
Marital status: Married in 1992, two daughters
Organization: HCM Univ. of Technology, Vietnam National Univ.-HCM, Vietnam
Division: Computational Physics Lab, HCM Univ. of Technology (Polytechnic)
Telephone: 0965-167-760 (home-cell phone)
 84.8.38647256 (5309) (office)
Fax: 84.8.38656295 (office)
Email: vvhoang2002@yahoo.com

Education, Degrees and Awards, Professional Career

1982-1988: 5.5 years study program at the Faculty of Physics and Chemistry, Moscow
 Steel and Alloys Institute.
 1988: Received diploma with honor (Master degree in the field of Solid State Physics)
 1988-1991: Ph.D program in Moscow Steel and Alloys Institute
 1991: Received Ph.D in Solid State Physics
 1992– 2004: Lecturer in Physics, Dept. of Physics, College of Natural Sciences, National
 University of HCM City-Vietnam
 2004-2005: Associate Professor, Dept. of Physics, College of Natural Sciences, National
 University of HCM City-Vietnam
 2006-2009: Associate Professor and then full Professor, Dept. of Physics, HCM Univ. of
 Technology (Polytechnic), National University of HCM City-Vietnam
 2009-present: Full Professor, Computational Physics Lab, HCM Univ. of Technology

Teaching courses: University Physics, Physics of Metals, Solid State Physics and Computer Simulation in Physics.

Fellowships:

- 1) KOSEF Post-Doctor in Dept. of Physics, Chungbuk National University (South Korea) from March 2004 to September 2004.
- 2) JSPS Invitation Research Fellow in Dept. of Physics, Kyushu University (Japan) from April 05, 2007 to December 28, 2007.
- 3) International Grant – 2008 Fellow in Physical Chemistry Lab, Dept. of Chemistry, Oxford University (UK) from June 10, 2009 to August 10, 2009.
- 4) Visiting Scientist, Institute of Atomic & Molecular Sciences, Academia Sinica (Taiwan) from July 01, 2010 to December 31, 2010.
- 5) Invited Professor, Paris-Est University (France) from 01 June 2011 to 01 July 2011.
- 6) Invited Professor, Angers Univ. (France) from 01 July to 15 July 2014

Membership: Member of the Physical society of Vietnam and APS.

Foreign languages: Good English and Excellent Russian

Research interest

My research interest is a computer simulation of the liquid and amorphous materials, nanomaterials, quasicrystals and monoatomic layer materials (graphene, silicene ...). Main research topics are given below:

- i) Phase transitions: glass transition, crystallization, melting, graphenization, silicization ...
- ii) Structure, thermodynamics and phase transitions in thin films and nanoparticles.
- iii) Freezing/melting of simple monatomic systems at nanoscale and in the bulk counterparts
- iv) Water-semiconductor interface, surface structure and properties of amorphous semiconductors
- v) Simulations of supercooled and glassy water, melting of ice etc.
- vi) Phase transitions in simple monatomic 2D systems
- vii) Atomic mechanism of graphenization and silicization of 2D liquids.
- viii) Structural defects of amorphous and crystalline graphene (silicene) obtained by cooling from the melts in the bulk or nanoribbon forms

List of publications

Articles:

1. **V.V. Hoang, H.T. Cam Mi**, *Free-standing silicene obtained by cooling from 2D liquid Si: structure and thermodynamic properties*, J. Phys. D: Appl. Phys. **47**, 495303 (2014).
2. **V.V. Hoang**, *Cooling rate effects on structure of amorphous graphene*, Physica B **456**, 50 (2015).
3. **V.V. Hoang, N.T. Long, D.N. Son**, *Crystallization of supercooled liquid and glassy Fe thin films*, Comp. Mater. Sci. **95**, 491 (2014).
4. **N.T.T. Hang, V.V. Hoang, L.N.T. Minh**, *Melting of crystalline silicon thin films*, Comp. Mater. Sci. **89**, 97 (2014).
5. **T.T. Huong, V.V. Hoang, P.N.K. Cat**, *Molecular Dynamics Simulations of Crystallization of Lennard-Jones Nanoparticles*, Eur. Phys. J. Appl. Phys. **67**, 10402 (2014).
6. **V.V. Hoang**, 'Graphenization' of 2D simple monatomic liquids, J. Phys.: Condensed Matter **26**, 205101 (2014).
7. **T.Q. Dong, Vo Van Hoang, G. Lauriat**, *Molecular simulation of freestanding amorphous nickel thin films*, Thin Solid Films **545**, 584 (2013).
8. **Vo Van Hoang, T.P. Duy**, *Melting of mesoscale Lennard-Jones crystals with free surfaces*, J. Phys. Soc. Jpn **82**, 064601 (2013).
9. **L.V. Sang, V.V. Hoang, N.T.T. Hang**, *Molecular dynamics simulation of melting of fcc Lennard-Jones nanoparticles*, Eur. Phys. J. D **67**, 64 (2013).
10. **Vo Van Hoang, D. Ganguli**, *Amorphous nanoparticles-Experiments and computer simulations*, Phys. Rep. **518**, 81(2012).
11. **Vo Van Hoang**, *Melting of simple monatomic amorphous nanoparticles*, J. Phys. Chem. C **116**, 14728 (2012).
12. **Vo Van Hoang, To Quy Dong**, *Melting of monatomic glass with free surfaces*, J. Chem. Phys. **136**, 104506 (2012).
13. **T.P. Duy, V.V. Hoang**, *Atomic mechanism of homogeneous melting of bcc Fe at the limit of superheating*, Physica B **407**, 978 (2012).
14. **T.T.T. Hanh, V.V. Hoang, T.P. Duy**, *Structural properties of simulated liquid Ga_nAs_m*, Comp. Mater. Sci. **54**, 183 (2012).

15. **Vo Van Hoang and To Quy Dong**, *Free surface effects on thermodynamics and glass formation in supercooled liquids with free surfaces*, Phys. Rev. B **84**, 174204 (2011).
16. **Vo Van Hoang**, *Atomic mechanism of the heating-induced phase transitions of the simple monatomic glasses*, Physica B **406**, 3653 (2011).
17. **Vo Van Hoang**, *Atomic mechanism of glass-to-liquid transition in monatomic glasses*, Phil. Mag. **91**, 3443 (2011).
18. **Vo Van Hoang, T. Odagaki**, *Glass formation and thermodynamics of supercooled monatomic liquids*, J. Phys. Chem. B **115**, 6946 (2011).
19. **Vo Van Hoang**, *Atomic mechanism of vitrification process in simple monatomic nanoparticles*, Eur. Phys. J. D **61**, 627 (2011).
20. **Vo Van Hoang and T.P. Duy**, *Structural defects and thermodynamics of vitreous GeO₂ nanoparticles*, Current Appl. Phys. **11**, 303 (2011).
21. **N.N. Linh, N.H.B. Trong, V.V. Hoang**, *Pressure-induced structural and dynamic transitions in simulated liquid alumino-silicate nanoparticles*, Phys. Chem. Liquids **49**, 81 (2011).
22. **Vo Van Hoang, T. Odagaki**, *Atomic mechanism of glass formation in supercooled monatomic supercooled liquid*, Solid State Comm. **150**, 1971 (2010).
23. **T.T. Thu Hanh, V.V. Hoang**, *Molecular dynamics simulation of diffusion in liquid gallium arsenide*, Comp. Mater. Sci. **49**, S221 (2010).
24. **Vo Van Hoang**, *Glasses of monatomic Lennard-Jones systems at nanoscale*, Physica B **405**, 1908 (2010).
25. **Vo Van Hoang**, *Molecular dynamics simulation of liquid and amorphous Fe nanoparticles*, Nanotechnology **20**, 295703 (2009).
26. **Vo Van Hoang, B.T.H.L. Khanh**, *Static and thermodynamic properties of liquid and amorphous Fe₂O₃ nanoparticles*, J. Phys.: Condens. Matter **21**, 075103 (2009).
27. **Vo Van Hoang, N.H. Cuong**, *Local icosahedral order and thermodynamics of simulated amorphous Fe*, Physica B **404**, 340 (2009).
28. **N.T.X. Huynh, Vo Van Hoang, H. Zung**, *Evolution of structure of SiO₂ nanoparticles upon cooling from the melt*, PMC Physics B **1**: 16 (2008).
29. **Vo Van Hoang, T. Odagaki**, *Glasses of simple liquids with double-well interaction potential*, Physica B **403**, 3910 (2008).
30. **B.T.H.L. Khanh, Vo Van Hoang, H. Zung**, *Structural properties of amorphous Fe₂O₃ nanoparticles*, Eur. Phys. J. D **49**, 325 (2008).
31. **Vo Van Hoang, T. Odagaki, M. Engel**, *Cooling rate effects on structure and thermodynamics of simple monatomic amorphous nanoparticles*, Appl. Surf. Sci. **254**, 7531 (2008).
32. **N.T. Xuan Huynh, Vo Van Hoang, H. Zung**, *Structural analysis of liquid and amorphous SiO₂ nanoparticles*, Physica B **403**, 3199 (2008).
33. **Vo Van Hoang, T. Odagaki**, *Cooling rate effects in simple monatomic amorphous nanoparticles*, Philos. Mag. **88**, 1461 (2008).
34. **Vo Van Hoang, T. Odagaki**, *Molecular dynamics simulation of simple monatomic amorphous nanoparticles*, Phys. Rev. B **77**, 125434 (2008).
35. **Vo Van Hoang, N.H. Tuan Anh, H. Zung**, *Structural properties of amorphous GeO₂ nanoparticles*, Phys. Stat. Sol. B **245**, 1505 (2008).
36. **N.N. Linh, Vo Van Hoang**, *Surface structure and structural point defects of liquid and amorphous aluminosilicate nanoparticles*, J. Phys.: Condens. Matter **20**, 265005 (2008).
37. **Nguyen Ngoc Linh, Vo Van Hoang**, *Structural Properties of Amorphous Al₂O₃.2SiO₂ nanoparticles*, Molecular Simulation **34**, 29 (2008).
38. **Vo Van Hoang**, *The glass transition and thermodynamics of liquid and amorphous TiO₂ nanoparticles*, Nanotechnology **19**, 105706 (2008).

39. **Vo Van Hoang**, *Glass formation in high-density $Al_2O_3 \cdot 2SiO_2$* , *Int. J. Mod. Phys. B* **22**, 205 (2008).
40. **Vo Van Hoang**, Composition dependence of static and dynamic heterogeneities in simulated liquid aluminium silicates, *Phys. Rev. B* **75**, 174202 (2007).
41. **Vo Van Hoang, N.N. Linh**, Finite size effects on static and dynamic properties of non-periodic boundary condition supercooled liquids, *J. Phys. Soc. Jpn* **76**, 14602 (2007).
42. **Vo Van Hoang**, Pressure-induced structural transition in amorphous TiO_2 nanoparticles and in the bulk via molecular dynamics simulation, *J. Phys. D: Appl. Phys.* **40**, 7454 (2007)
43. **Vo Van Hoang**, Glass transition and diffusion in liquid TiO_2 , *J. Phys.: Condens. Matter* **19**, 41609 (2007).
44. **Vo Van Hoang**, Molecular dynamics simulation of amorphous SiO_2 nanoparticles, *J. Phys. Chem. B* **111**, 12649 (2007).
45. **Vo Van Hoang**, Dynamical heterogeneity and diffusion in high-density $Al_2O_3 \cdot 2SiO_2$ melts, *Physica B* **400**, 278 (2007).
46. **Vo Van Hoang**, *Diffusion in simulated liquid SiO_2 nanoparticles*, *NANO* **2**, 301 (2007).
47. **N.N. Linh and Vo Van Hoang**, Evolution of structure of liquid and amorphous $Al_2O_3 \cdot 2SiO_2$ nanoparticles upon cooling from the melts, *NANO* **2**, 227 (2007).
48. **N.N. Linh and Vo Van Hoang**, *Structural properties of amorphous $Al_2O_3 \cdot SiO_2$* , *Physica Scripta* **76**, 165 (2007).
49. **Vo Van Hoang, H. Zung, N.H.B. Trong**, *Structural properties of amorphous TiO_2 nanoparticles*, *Eur. Phys. J. D* **44**, 515 (2007).
50. **Vo Van Hoang, Nguyen Ngoc Linh, Nguyen Hoang Hung**, *Pressure and temperature-induced structural changes in simulated amorphous $Al_2O_3 \cdot 2SiO_2$* , *Phys. Stat. Sol. B* **244**, 3074 (2007).
51. **Vo Van Hoang**, *Local environments of oxygen in $Al_2O_3 \cdot SiO_2$ melts*, *Phys. Lett. A* **368**, 499 (2007).
52. **Vo Van Hoang, Hoang Zung and Nguyen Trung Hai**, *Diffusion and dynamical heterogeneity in simulated liquid SiO_2 under high pressure*, *J. Phys.: Condens. Matter* **19**, 116104 (2007).
53. **Vo Van Hoang, Nguyen Huynh Tuan Anh, Hoang Zung**, *Diffusion in simulated liquid GeO_2 under pressure*, *Physica B* **394**, 39 (2007).
54. **Vo Van Hoang**, Structural properties of simulated liquid and amorphous TiO_2 , *Phys. Stat. Sol. B* **244**, 1280 (2007).
55. **Vo Van Hoang, Nguyen Ngoc Linh and Nguyen Hoang Hung**, Structure and diffusion in simulated liquid and amorphous $Al_2O_3 \cdot 2SiO_2$, *Eur. Phys. J. Appl. Phys.* **37**, 111 (2007).
56. **Vo Van Hoang, N.H. Tuan Anh, and Hoang Zung**, Liquid-liquid phase transition and anomalous diffusion in simulated liquid GeO_2 , *Physica B* **390**, 17 (2007).
57. **Vo Van Hoang**, Interatomic potential effects on dynamical heterogeneities in simulated liquid SiO_2 , *Eur. Phys. J. B* **54**, 291 (2006).
58. **Vo Van Hoang, Nguyen Hoang Hung, and Nguyen Ngoc Linh**, Liquid-liquid phase transition in simulated liquid $Al_2O_3 \cdot 2SiO_2$, *Physica Scripta* **74**, 697 (2006).
59. **Vo Van Hoang, Nguyen Trung Hai, and Hoang Zung**, Tetrahedral \leftrightarrow octahedral network structure transition in simulated vitreous SiO_2 , *Phys. Lett. A* **356**, 246 (2006).
60. **Vo Van Hoang and Nguyen Hoang Hung**, Temperature-induced phase transition in simulated amorphous Al_2O_3 , *Phys. Stat. Sol. B* **243**, 416 (2006).
61. **Vo Van Hoang**, Heating rate effects in simulated liquid Al_2O_3 , *Eur. Phys. J. Appl. Phys.* **33**, 69 (2006).
62. **Vo Van Hoang and Suhk Kun Oh**, Cooling rate effects on dynamics in supercooled Al_2O_3 , *Int. J. Mod. Phys. B* **20**, 947 (2006).

63. **Vo Van Hoang**, Spatial correlations of most mobile or immobile particles in supercooled Al_2O_3 , *Phys. Stat. Sol. A* 203, 478 (2006).
64. **Vo Van Hoang**, Static and dynamic properties of simulated liquid and amorphous GeO_2 , *J. Phys.: Condens. Matt.* 18, 777 (2006).
65. **Vo Van Hoang**, Spatial correlations of most mobile and immobile particles in supercooled SiO_2 , *Jurnal Fizik Malaysia* 27, 15 (2006).
66. **Vo Van Hoang and Suhk Kun Oh**, Simulation of pressure-induced phase transition in liquid and amorphous Al_2O_3 , *Phys. Rev. B* 72, 054209 (2005).
67. **Vo Van Hoang**, About an order of liquid-liquid phase transition in simulated liquid Al_2O_3 , *Phys. Lett. A* 335, 439 (2005).
68. **Vo Van Hoang**, Simulation of aging effects on dynamics in liquid Al_2O_3 , *Physica B* 367, 210 (2005).
69. **Vo Van Hoang and Suhk Kun Oh**, Annealing effects on structure in amorphous Al_2O_3 models, *Physica B* 364, 225 (2005).
70. **Vo Van Hoang**, Thermal hysteresis in simulated Al_2O_3 system, *Eur. Phys. J. B* 48, 495 (2005).
71. **Vo Van Hoang and Suhk Kun Oh**, Computer simulation of the structural transformation in liquid Al_2O_3 , *J. Phys.: Condens. Matt.* 17, 3025 (2005).
72. **Vo Van Hoang and Suhk Kun Oh**, Dynamical heterogeneities in supercooled Al_2O_3 , *J. Phys.: Condens. Matt.* 17, 5179 (2005).
73. **Vo Van Hoang**, Static and dynamic heterogeneities in supercooled SiO_2 , *Defect and diffusion Forum* 242-244, 77 (2005).
74. **Vo Van Hoang and Suhk Kun Oh**, Molecular dynamics study of aging effects in supercooled Al_2O_3 , *Phys. Rev. E* 70, 061203 (2004).
75. **Vo Van Hoang**, Molecular dynamics study on structure and properties of liquid and amorphous Al_2O_3 , *Phys. Rev. B* 70, 134204 (2004).
76. **Vo Van Hoang and Suhk Kun Oh**, Structure and diffusion simulation of liquid Al_2O_3 , *Physica B* 352, 342 (2004).
77. **Vo Van Hoang and Suhk Kun Oh**, Simulation of structural properties and structural transformation of amorphous Al_2O_3 , *Physica B* 352, 73 (2004).
78. **Vo Van Hoang, Belashchenko D.K, V. T. Mai Thuan**, Computer simulation of the structural and thermodynamics properties of liquid and amorphous SiO_2 , *Physica B* 348, 249 (2004).
79. **Vo Van Hoang**, Computer simulation of the effects of B and P concentrations on microstructure in amorphous Fe-B and Fe-P alloys, *Physica B* 348, 347 (2004).
80. **Vo Van Hoang, N. H. Hung, N. H. Tuan Anh**, Computer simulation of the effect of the B, P concentration on the pore distribution in the amorphous Co-B, Co-P alloys, *J. Metastable and Nanocrystalline materials, e-vol. 18*, 43 (2003).
81. **P.K. Hung, N.N. Nguyen, Vo Van Hoang, H.V. Hue, N.V. Hong, L.T. Vinh**, Computer simulation of diffusion in amorphous solids, *J. Advances in Natural Sciences* 3, 1 (2002).
82. **Vo Van Hoang**, Computer simulation of the liquid and amorphous SiO_2 , *J. Communications in Physics* 12, 245 (2002).
83. **Vo Van Hoang, T. B. Van**, Simulation of structural and magnetic inhomogeneities of amorphous Ni-P alloys, *J. Metastable and Nanocrystalline Materials, e- vol 9*, 5 (2001).
84. **Vo Van Hoang, T. B. Van, Belashchenko D. K, V. T. Thu Nhi**, Computer simulation of microstructure of amorphous Co-P alloys, *J. Communication in Physics* 11, 157 (2001).
85. **Vo Van Hoang, T. B. Van, N. H. Hung, P. K. Hung**, Calculation of magnetic of the amorphous Fe by XY model and Monte-Carlo method, *J. Communications in Physics* 11, 250 (2001).

86. **Belashchenko D.K, Vo Van Hoang and P.K. Hung**, Computer simulation of local structure and magnetic properties of amorphous Co-B alloys, *J. Non-Cryst. Solids* 276, 169 (2000).
87. **Vo Van Hoang, T. B. Van, V. T. Thu Nhi, P. K. Hung**, The density dependence of microstructure and magnetic properties of amorphous Fe, *J. Communication in Physics* 10, 201 (2000).
88. **Vo Van Hoang, T. B. Van, P. K. Hung, V. T. Thu Nhi**, Investigation of magnetic properties of different phases of Fe by Monte-Carlo method and Ising Model, *J. Sciences and Technology* 1, 53 (1999) (in Vietnamese).
89. **Vo Van Hoang, T. B. Van, P. K. Hung**, Simulation of structure and magnetic properties of amorphous Ni, *J. Metastable and Nanocrystalline Materials* 2- 6, 551 (1999).
90. **P. K. Hung, Vo Van Hoang, T. D. Hanh, P. N. Nguyen**, Computer simulation of diffusion in disordered systems, *J. Metastable and Nanocrystalline Materials* 2-6, 443 (1999).
91. **P. K. Hung, D. K. Belashchenko, V. M. Chieu, N. T. Duong, Vo Van Hoang, T.B. Van**, Local structure of amorphous canonical systems, *J. Metastable and Nanocrystalline Materials* 2-6, 393 (1999).
92. **Vo Van Hoang, T. B. Van, P. K. Hung**, Local magnetism in the amorphous Cobalt, *J. Development of Sciences and Technology* 1, 5 (1998) (in Vietnamese).
93. **Vo Van Hoang, T. B. Van**, Microstructural analysis of the amorphous Ni₆₅B₃₅ alloy, *J. Development of Sciences and Technology* 1, 35 (1998) (in Vietnamese).
94. **Vo Van Hoang**, The structure of amorphous Ni-B alloys, *J. Sciences and Technology* 6, 73 (1997) (in Vietnamese).
95. **Belashchenko D. K, Vo Van Hoang**, Computer simulation of magnetic properties of different phases of Cobalt and amorphous Co-B alloys, *Izvestija Russian akademi nauk-Metaly* 2, 156 (1996) (in Russian).
96. **Belashchenko D. K, Vo Van Hoang**, Thermodynamic properties of liquid and amorphous Co_{81.5} B_{18.5}, *Izvestija Russian akademi nauk-Metaly* 1, 168 (1993) (in Russian).
97. **Vo Van Hoang, Belashchenko D. K**, Computer simulation of amorphous alloys of system Co-B, *Izvestija Russian akademi nauk-Metaly* 4, 205 (1993) (in Russian).
98. **Vo Van Hoang, Belashchenko D. K**, Calculation of thermodynamics properties of liquid and amorphous Co_{81.5} B_{18.5} alloy by molecular dynamics method, *Izvestija vuzov- chornaija metallurgia* 1, 118 (1992) (in Russian).
99. **Vo Van Hoang, Belashchenko D. K**, Computer simulation of liquid and amorphous Cobalt, *Izvestija vuzov-chornaija metallurgia* 7, 68 (1991) (in Russian).
100. **Vo Van Hoang**, Computer simulation of structure and physical properties of the amorphous Co-B alloys, *PhD thesis, Moscow, 1991* (in Russian).
101. **Belashchenko D. K, Vo Van Hoang**, Stationary and Non-Stationary diffusion in disordered systems, *Izvestija vuzov-chornaija metallurgia* 5, 54 (1990) (in Russian).
102. **Belashchenko D. K, Vo Van Hoang**, Calculation of thermodynamics properties of liquid and amorphous Cobalt by molecular dynamics method, *Izvestija vuzov-chornaija metallurgia* 11, 3 (1990) (in Russian).
103. **Belashchenko D. K, P. K. Hung, Vo Van Hoang**, Computer simulation of diffusion in disordered systems under effect of driving force, *Izvestija vuzov-chornaija metallurgia* 9, 153 (1988) (in Russian).

Conference presentations:

1. **V.V. Hoang, H.T. Cam Mi**, Silicization of 2D liquid Si – MD simulation, oral presentation at ICCSE-2, HochiMinh City, 21-13 August 2014

2. **Vo Van Hoang and Hoang Zung**, Amorphous-amorphous phase transition in amorphous simulated SiO₂ nanoparticles, Tech. Proc. of the 2007 NSTI (Nanotechnology Conference and Trade Show, May 20-24, 2007, Santa Clara, California, U.S.A).
3. **Nguyen Ngoc Linh, Vo Van Hoang and Hoang Zung**, Structural Properties of Amorphous Al₂O₃.2SiO₂ nanoparticles, Tech. Proc. of the 2007 NSTI (Nanotechnology Conference and Trade Show, May 20-24, 2007, Santa Clara, California, U.S.A).
4. **Vo Van Hoang, Hoang Zung, and Nguyen Trung Hai**, Diffusion in simulated liquid SiO₂ nanoparticle, presented at 3rd Int. Workshop on Nanophysics and Nanotechnology (3rd IWONN), 6-9 December, 2006, Ha Long City-Vietnam.
5. **Vo Van Hoang, Hoang Zung, and Ngo Huynh Buu Trong**, Size effects on structure of amorphous TiO₂ nanoparticles, accepted for presentation at 3rd Int. Workshop on Nanophysics and Nanotechnology (3rd IWONN), 6-9 December, 2006, Ha Long City-Vietnam.
6. **Vo Van Hoang**, Spatial correlations of most mobile or immobile particles in supercooled SiO₂, *Inter. Meeting on Frontiers of Physics IMFP 2005, 25-29 July 2005, Kuala-Lumpur, Malaysia. (Oral Presentation)*.
7. **Vo Van Hoang and N.H. Tuan Anh**, Simulation of structure of liquid and amorphous GeO₂, *Inter. Meeting on Frontiers of Physics IMFP 2005, 25-29 July 2005, Kuala-Lumpur, Malaysia. (Oral Presentation)*.
8. **P.N. Nguyen, P. K. Hung, L. K. Hoang, N.T.N. Anh, N.T. Nhan, Vo Van Hoang**, Computer simulation of diffusion in three – dimensional disordered systems, 4th *German-Vietnamese Seminar on Physics and Engineering (GVS4), Dresden, 5-7 June, 2001, p.167.*
9. **Vo Van Hoang, N. H. Hung**, The correlation between structure and magnetic properties of the amorphous Fe-P alloys, *Reported at Conference on Physics in the College of Natural sciences of HoChiMinh city, May, 2000 (in Vietnamese)*.
10. **Vo Van Hoang, N. H. Hung, P. K. Hung**, Investigation of the spin distribution in the amorphous Fe model, *Reported at the Vietnam National Conference on Physics, Hanoi, March, 2001. (in Vietnamese)*.
11. **Vo Van Hoang, P. K. Hung, P. N. Nguyen, L. V. Vinh, L. H. Bac**, Computer modeling of magnetic properties of the amorphous systems, *Proc. of the 3th International Workshop on Materials Sciences (IWOMS'99), Hanoi, November 2-4, 1999, p.182.*
12. **P. N. Nguyen, P. K. Hung, Vo Van Hoang, L. V. Vinh, L. H. Bac**, Simulation of local structure of the amorphous alloys Co_xB_{100-x}, *Proc. of the 3th International Workshop on Materials Sciences (IWOMS'99), Hanoi, November 2-4, 1999, p. 837.*
13. **Vo Van Hoang, T. B. Van**, The density dependence of the cavity distribution in the amorphous Fe, *Reported at 2th conference on Physics of HochiMinh city, December 26-27, 1998 (in Vietnamese)*.
14. **T. B. Van, V. T. Thu Nhi, Vo Van Hoang, P. K. Hung**, The polyamorphism of amorphous metals, *Reported at 2th conference on Physics of HochiMinh city, December 26-27, 1998 (in Vietnamese)*.
15. **P. K. Hung, T. B. Van, Vo Van Hoang, P. N. Nguyen**, Cavity structure in amorphous Co_{1-x} P_x alloys, *Reported at the 7th Asia Pacific Conference on Physics, 1997, Beijing, China.*

Books or chapters in books:

1. **Vo Van Hoang**, *Computer simulation in Physics* (HochiMinh City National University Publisher, 2004) (in Vietnamese).
2. **Pham Khac Hung, Vo Van Hoang, Hoang Van Hue, Le Van Vinh, and Nguyen Van Hong**, *The study of pores and free volume in amorphous models* in **Modelling**,

- Simulation and Optimization of Complex Processes** (Springer Berlin Heidelberg, 2005) edited by H.G. Bock, H.X. Phu, E. Kostina, and R. Rannacher.
3. **Vo Van Hoang**, *Structure and dynamics of simulated liquid Al_2O_3 under high pressure* in **Frontiers in General Relativity and Quantum Cosmology Research** (Nova Science Publishers, New York, 2006) edited by V.H. Marcelle.
 4. **Vo Van Hoang**, *Dynamical heterogeneities in supercooled GeO_2* in **Solid State Chemistry Research Trends** (Nova Science Publishers, New York, 2007) Edited by R.W. Buckley.
 5. **Vo Van Hoang**, *Cooling rate effects in liquid and amorphous Al_2O_3* , in **New developments in Condensed Matter Physics** (Nova Science Publishers, New York, 2007) Edited by J.V. Chang..
 6. **Vo Van Hoang**, *Physics of metals* (HochiMinh City National University Publisher, 2006) (in Vietnamese).
 7. **Vo Van Hoang**, *Programming language FORTRAN* (Giao Duc Publisher, 2007) (in Vietnamese).
 8. **Vo Van Hoang**, *Amorphous Nanoparticles* in **Handbook of Nanophysics** (CRC Press, New York, 2010) Edited by K.S. Sattler
 9. **Vo Van Hoang**, *Amorphous TiO_2 Nanoparticles-Review* in **Advances in Nanotechnology, Vol. 4** (Nova Science, New York, 2010) Edited by Zacharie Bartul and Jérôme Trenor.

September, 2014

Vo Van Hoang, Prof. Ph.D

Dept. of Physics, HCM Univ. of Technology, Vietnam National University- HochiMinh City,
268 Ly Thuong Kiet Street, District 10, HochiMinh City, Vietnam

Email: vvhoang2002@yahoo.com