

Curriculum Vitae



Personal detail

- Full Name Dinh Van An
- Birthday July 9th
- Sex Male
- Affiliation
 - 1) Nanotechnology program, Vietnam Japan University.
 - 2) Graduate School of Engineering, Osaka University
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Academic Background

- 9.1981–5.1985: (Honor) First Class BSc., Department of Physics, Hue University, Vietnam.
- 9.1994–3.1996: Doctor course, Institute of Physics, National Center of Science and Technology (present name: VAST), Vietnam.
- 4.1996–3.1997: Japanese Education, Osaka University, Japan.
- 4.1997–3.1999: Master course, Graduate School of Science, Osaka Univ., Japan.
- 4.1999–3.2002: Doctor course, Graduate School of Science, Osaka Univ., Japan.

Professional Experience

- 9.1985–8.1986: Assistant Lecturer, Theoretical Physics group, Department of Physics, Hue Univ., Vietnam.
- 9.1986–10.2005: Lecturer, Department of Physics, Hue Univ., Vietnam.
- 4.2002–10.2002: Postdoctoral Fellow, Faculty of Sciences, Osaka Univ., Japan.
- 11.2002–3.2004: Specially Appointed Lecturer, The Institute of Scientific and Industrial Research, Osaka Univ., Japan.
- 4.2004 – 3.2009: Specially Appointed Assistant Professor, ISIR, Osaka Univ., Japan.
- 4.2009 – 3.2014: Researcher, The National Institute for Materials Science, Japan.
- 3.2014 – 2.2015: Specially Appointed Research Fellow, Graduate School of Engineering, Osaka Univ., Japan
- 3.2015 ~ 5.2016: Specially Appointed Scientist Fellow, Graduate School of Engineering, Osaka Univ., Japan
- 4.2016 ~: Invited Scientist, Center for Atomic and Molecular Technologies, Graduate School of Engineering, Osaka Univ., Japan
- 6.2016 ~: JICA Long-term Expert and Lecturer at Vietnam Japan Univ., Vietnam

Professional Funds and Academic Honors Awards

- Excellent Student Awards of Hue Univ., FY1981-1982, FY1982-1983, FY1983-1984.
- Best Young Researcher Award of Physics Department, Hue Univ. 1993.
- Monbusho Scholarship from Ministry of Education, Cultural, Sport, Science and Technology (Japan) (4.1996 - 3.2002).
- Monbusho Aid Grand from Ministry of Education, Cultural, Sport, Science and Technology (Japan) (4.2002 - 10.2002)

- Special Funds for Co-ordination of Science and Technology from Ministry of Education, Cultural, Sport, Science and Technology (Japan) (11.2002 - 3.2004, 4.2004 - 3.2006, 2015-2016).
- Funds for Co-ordination of Science and Technology from Ministry of Education, Cultural, Sport, Science and Technology (Japan) (FY2005 – FY2008).
- Special Funds for development of Secondary Ion Batteries (2009 – 2014).
- NAFOSTED Research Fund (Vietnam) (2019-2021)
- Vingroup Innovation Fund (VINIF 2019 – 2022)
- Invited talks at international conferences of materials sciences (2012, 2013 and 2014, 2016, 2018, 2019).
- *Paper of Editors' Choice* by JJAP: Jpn. J. Appl. Phys. 42 (2003) L888-L891.
- *Paper of Editors' Choice* by PSS: Phys. Stat. Sol. (a) 204(2006) 1-18.
- *Paper of Editors' Choice* by APEX: Appl. Phys. Express **12** (2012) 125802. (*Nominated Outstanding Paper Award* of JAPS in 2013).
- ***Outstanding Paper Award*** of The Iron and Steel Institute of Japan (2015): Tetsu-to-Hagane **100** (2014) 1329.
- ***Kuniichi Tawara medal*** for research of ISIJ (2015)

Research Interests

- Computational Materials Design.
 - Materials Design toward the early cancer detection and environmental settlement.
 - Adsorption of toxic gases and Volatile Organic Compounds
 - First Principles Calculation
 - ◇ CPA-KKR Green Function Method
 - ◇ Density Functional Theory
 - ◇ Hybrid Density Functional Methods
 - ◇ Monte Carlo Simulation, etc.
- Disordered systems: *Heavily doped semiconductors.*
- Low dimensional electron systems: *Strongly correlated 2D-electron systems, Wigner crystals.*
- Magnetic Materials: *materials design for spintronics*
- Thermo-magnetism: *Spin thermodynamic effects*
- Batteries: *Rechargeable Li-ion Batteries, Na-ion batteries, Fuel Cell, Li-Air Batteries.*
- Application of 2D materials

PUBLICATION LIST

(up to Aug. 5, 2019)

Author: **Dinh Van An**

I. Papers

1. D. N. Quang, N. N. Dat and **D. V. An**, *On the electron mobility in slightly compensated heavily doped GaAs at low temperatures*, Phys. Lett. A **182**, (1993) 125-129
2. D. N. Quang, N. N. Dat, **D. V. An**, *On the electron mobility in slightly compensated heavily doped gallium arsenide at low temperatures*, ICTP-Preprint **IC/93/138**, Miramare-Trieste (1993).
3. D. N. Quang, N. N. Dat, **D. V. An**, *Theory of the deep band tail in heavily doped semiconductors*, ICTP-Preprint **IC/95/394**, Miramare-Trieste (1995)
4. D. N. Quang, N. N. Dat, **D. V. An**, *Deep band tail in heavily doped semiconductors*, ICTP-Preprint **IC/95/421**, Miramare-Trieste (1995)
5. D. N. Quang, N. N. Dat and **D. V. An**, *Effect of Impurity correlation on the density of states in slightly compensated heavily doped semiconductors*, J. Phys. Soc. Jpn. **66**, (1997) 140-148.
6. **V. A. Dinh** and M. Saitoh, *Theory of cyclotron resonance of correlated electrons*, Physica E, **18** (2003) 155.
7. **V. A. Dinh** and M. Saitoh, *Cyclotron resonance of Wigner crystal in semiconductor heterostructures*, J. Phys. Soc. Jpn., **72** (2003) 1779-1783.
8. **V. A. Dinh**, K. Sato and H. Katayama-Yoshida, *T-enhanced co-doping method for GaAs-based dilute magnetic semiconductors*, Jpn. J. Appl. Phys. (Part2: Letters) **42** (2003) L888. (**Paper of Editors' Choice**).
9. **V. A. Dinh** and M. Saitoh, *Cyclotron resonance of Wigner crystal on liquid helium*, Physica E, **22** (2004) 783.
10. **V. A. Dinh**, K. Sato and H. Katayama-Yoshida, *Enhancement of T_c by carrier co-doping method with size compensation for ferromagnetic GaN-based dilute magnetic semiconductors*, J. Phys.: Condens. Matter **16** (2004) S5705-S5709.
11. K. Kenmochi,, **V. A. Dinh**, K. Sato, A. Yanase and H. Katayama-Yoshida, *Materials Design of Transparent and Half-Metallic Ferromagnets in MgO, SrO and BaO without Magnetic Elements*, J. Phys. Soc. Jpn. **73** (2004) 2952-2954.
12. **V. A. Dinh** and M. Saitoh, *Cyclotron Resonance of Wigner Crystals on Liquid Helium*. arXiv:cond-mat/0403068[cond-mat.mtrl-sci] (2004).
13. **V. A. Dinh**, K. Sato and H. Katayama-Yoshida, *Carrier co-doping with size compensation to enhance T_c of Mn-doped Nitrides*, J. of Supercond. Novel Magn. **18** (2005) 45-51.
14. **V. A. Dinh** and H. Katayama-Yoshida, *Ferromagnetism and Curie Temperature of V-doped Nitrides*, J. Elec. microscopy **54** (2005) i61-i64.
15. **V. A. Dinh**, K. Sato and H. Katayama-Yoshida, *Dilute magnetic semiconductors based on wide bandgap SiO₂ with and without transition metal elements*, Sol. Stat. Commun. **136** (2005) 1-5.
16. **V. A. Dinh**, M. Toyoda, K. Sato and H. Katayama-Yoshida, *Pseudo-SIC study on the ferromagnetism induced by Carbon in AO - based DMS (A = Mg, Ca, Ba, Sr)*, Phys. Stat. Sol. (c) **3** (2006) 4131.
17. **V. A. Dinh**, M. Toyoda, K. Sato and H. Katayama-Yoshida, *Exchange interaction and T_c in alkaline-earth-metal-oxide-based DMS without magnetic impurities: First principle pseudo-SIC and Monte Carlo calculation*, J. Phys. Soc. Jpn. **75** (2006) 093705.
18. H. Katayama-Yoshida, K.Sato, T. Fukushima, M. Toyoda, H. Kizaki, **V. A. Dinh** and P. H. Dederichs, *Computational Nano-Material Design for High-T_c Ferromagnetism in Wide-Gap Magnetic Semiconductors*, J. Magn. Mater. **301** (2007) 2070.

19. H. Katayama-Yoshida, K.Sato, T. Fukushima, M. Toyoda, H. Kizaki, **V. A. Dinh** and P. H. Dederichs, *Theory of ferromagnetic semiconductors*, Phys. Stat. Sol. (a) **204** (2007) 15. (**Paper of Editors' Choice**).
20. H. Katayama-Yoshida, T. Fukushima, **V. A. Dinh** and K. Sato, *Computational Nano-Materials Design for Colossal Spin Cooling System by Spin-Entropy Expansion in Nano-superstructures*, Jpn. J. Appl. Phys. (Part2: Letters) **46** (2007) L777 (**highlighted in Virt. J. Nanoscale Sci. & Tech., 16 Issue 17, (2007)**).
21. H. Katayama-Yoshida, K. Sato, H. Kizaki, H. Funashima, I. Hamada, T. Fukushima, **V. A. Dinh** and M. Toyoda, *Ab initio materials design for transparent-conducting-oxide-based new-functional materials*, Appl. Phys. A **89** (2007) 19.
22. **V. A. Dinh**, K. Sato and H. Katayama-Yoshida, *Exchange Interaction and T_c in Alkaline-earth-metal-oxide-based DMS without Magnetic Impurities: First Principle Pseudo-SIC and Monte Carlo Calculation*. arXiv:0801.2249 [cond-mat.mtrl-sci] (2008).
23. **V. A. Dinh**, K. Sato and H. Katayama-Yoshida, *New High- T_c Half-Heusler Ferromagnets NiMnZ (Z=Si, P, Ge, As)*. arXiv:0801.2225v1 [cond-mat.mtrl-sci] (2008).
24. **V. A. Dinh**, K. Sato and H. Katayama-Yoshida, *Structural and magnetic properties of half-heusler alloys NiCrZ (Z = Si, P, Ge, As, Te): First principle study* arXiv:0801.2222v1 [cond-mat.mtrl-sci] (2008).
25. **V. A. Dinh**, K. Sato and H. Katayama-Yoshida, *New High- T_c half-Heusler ferromagnets NiMnZ (Z = Si, P, Ge, As) for Spintronics*, J. Phys. Soc. Jpn. **77** (2008) 014705 (**highlighted in Virt. J. Nanoscale Sci. & Tech., 17 Issue 9, (2008)**).
26. H. Katayama-Yoshida, K.Sato, T. Fukushima, M. Toyoda, H. Kizaki, V. A. Dinh and P. H. Dederichs, *Computational Nano-Materials Design for II-VI Compound Semiconductor Based Spintronics*, J. Kor. Phys. Soc. **53** (2008) 1.
27. **V. A. Dinh**, K. Sato and H. Katayama-Yoshida, *Structural and Magnetic Properties of Room Temperature Ferromagnets NiCrZ*, J. Comput. Theor. Nanosci. **6** (2009) 2589.
28. **V. A. Dinh**, K. Sato and H. Katayama-Yoshida, *First Principle prediction of half-metallicity and ferromagnetism above room temperature in half-Heusler alloys*, AIP Conf. Proceed. **1199** (2009) 441.
29. **V. A. Dinh**, K. Sato and H. Katayama-Yoshida, *First principle materials design of half-metallic ferromagnetic half-Heusler alloys*, IEEE Tran. on Magn. **45** (2009) 2663
30. K. Sato, T. Fukushima, M. Toyoda, H. Kizaki, **V. A. Dinh**, H. Fujii, L. Bergqvist, P.H. Dederichs and H. Katayama-Yoshida, *First-principles material design and perspective on semiconductor spintronics materials*, Physica B: Cond. Mat. **404** (2009) 5237.
31. **V. A. Dinh**, K. Sato and H. Katayama-Yoshida, *Half metallicity and high- T_c ferromagnetism in Si-containing half-Heusler alloys*, J. Supercond. Novel Magn. **23** (2010) 79.
32. **V. A. Dinh**, K. Sato and H. Katayama-Yoshida, *First Principle study of spinodal decomposition thermodynamics in half-Heusler alloys CoTi_{1-x}Fe_xSb*, J. Supercond. Novel Magn. **23** (2010) 75.
33. K. Sato, L Bergqvist, J Kudrnovsk'y, P. H. Dederichs, O. Eriksson, I. Turek, B. Sanyal, G. Bouzerar, H. Katayama-Yoshida, **V. A. Dinh**, T. Fukushima, H. Kizaki and R.Zeller, *First-principles studies of dilute magnetic semiconductors*,. Rev. Mod. Phys. **82** (2010) 1633–1690. **IF2018 = 38.296. 827 Citations (counted on Aug. 05,2019)**.
34. **V. A. Dinh**, J. Nara and T. Ohno, *Vacancy formation and attractive interaction between vacancies and Cl in Chlorine-Doped LiFePO₄*. IEEE Xplore 190-193 (2011).
35. M. Seike, **V. A. Dinh**, K. Sato, H. Katayama Yoshida, *First-principles study of the magnetic properties of nitrogen-doped alkaline earth metal oxides*, Physica B: Cond. Mat.

- 407 (2012) 2875.
36. **V. A. Dinh**, J. Nara and T. Ohno, *A new insight into the polaron-Li complex diffusion in cathode material $\text{LiFe}_{1-x}\text{Mn}_x\text{PO}_4$ for Li ion batteries*, Appl. Phys. Express **5** (2012) 045801.
 37. M. Seike, **V. A. Dinh**, T. Fukushima, K. Sato and H. Katayama-Yoshida, *Self-Organized Nanostructures and High Blocking Temperature in MgO-based d^0 Ferromagnets*, Jpn. J. Appl. Phys. **51** (2012) 050201.
 38. Y. Asari, Y. Suwa, T. Hamada, **V. Dinh**, J. Nara, **T. Ohno**: “*First-Principles Study of Charge Compensation in Olivine Positive*”. 220th ECS Meeting and Electrochemical Energy Summit (2012).
 39. Y. Asari, Y. Suwa, T. Hamada, **V. A. Dinh**, J. Nara, and T. Ohno, *First principles study of charge compensation in olivine positive*. ESC Trans. **41** (2012) 115.
 40. K. M. Bui, **V. A. Dinh**, and T. Ohno, *Diffusion of polaron-Li complex in lithium silicate $\text{Li}_2\text{FeSiO}_6$* , Appl. Phys. Express **12** (2012) 125802. (**Paper of Editors' Choice of APEX and Nominated Outstanding Paper Award of JAPS in 2013**).
 41. H. Ohtsuka, **V. A. Dinh**, T. Ohno, K. Tsuzaki, H. Suzuki, H. Kitazawa: *Effects of carbon on magnetic properties and transformed structures in Fe-based alloys*, 3rd Intl. Conf. on Steel Sci.-ISSS2012. Proc of IS32-12 (2013) 247-249.
 42. K. M. Bui, **V. A. Dinh**, and T. Ohno, *Hybrid Functional Study on Diffusion in Silicate Cathode Material $\text{Li}_2\text{NiSiO}_6$* ; J. Phys: Conf. Ser. 454 (2013) 01206.
 43. K. M. Bui, **V. A. Dinh**, and T. Ohno, *Diffusion mechanism of Polaron – Li vacancy complex in cathode material $\text{Li}_2\text{FeSiO}_6$ ($x = 1, 2$)*. Adv. Nat. Sci.: Nanosci. Nanotech. (2013) 169.
 44. D. M. Duong, **V. A. Dinh** and T. Ohno, *Quasi-3D diffusion of Li ions in carbonophosphate $\text{Li}_2\text{Fe}(\text{PO}_3)_2\text{CO}_3$* . Appl. Phys. Express **6** (2013) 115801.
 45. H. Ohtsuka, **V. A. Dinh**, T. Ohno, K. Tsuzaki, K. Tsuchiya, and R. Sahara, *First-Principles Calculation of the Effects of Carbon on Tetragonality and Magnetic Moment of BCC-Fe*, Tetsu-to-Hagane **100** (2014) 1329. (**Outstanding Paper Award of 2015 awarded by The Iron and Steel Institution of Japan**).
 46. K.M. Bui, **V. A. Dinh**, S. Okada, and T. Ohno, *High ionic conductivity NASICON based materials for Na-ion batteries: a density functional approach*. Bulletin of APS: APS March Meeting **60** (2015) No.1.
 47. H. Ohtsuka, **V. A. Dinh**, T. Ohno, K. Tsuzaki, K. Tsuchiya, and R. Sahara, *First-Principles Calculation of the Effects of Carbon on Tetragonality and Magnetic Moment of BCC-Fe*. ISIJ International **55**, 11 (2015).
 48. K. M. Bui, **V. A. Dinh**, S. Okada and T. Ohno, *Hybrid functional study of the NASICON-type $\text{Na}_3\text{V}_2(\text{PO}_4)_3$: Crystal and electronic structures, and polaron-Na vacancy complex diffusion*. Phys. Chem. Chem. Phys. **17** (2015) 30433.
 49. K. M. Bui, **V. A. Dinh**, S. Okada and T. Ohno, *Diffusion in NASICON-type electrolyte material NZSP for all-solid-state batteries: Density functional study*. Phys. Chem. Chem. Phys. **18** (2016) 27226.
 50. M. Debbichi, L. Debbichi, **V. A. Dinh** and S. Lebègue, *First principles study of the crystal, electronic structure, and diffusion mechanism of polaron-Na vacancy of $\text{Na}_2\text{MnPO}_4\text{CO}_3$ for Na-ion battery applications*. J. Phys. D: Appl. Phys. **50** (2017) 045502.
 51. H. D. Luong, Y. Morikawa, Y. Shibutani and **V. A. Dinh**, *Diffusion mechanism of Na ion – polaron complex in potential cathode in potential cathode materials NaVOPO_4 and VOPO_4 of rechargeable sodium-ion batteries*. Phys. Chem. Chem. Phys. **20** (36), 23625 - 23634

(2018).

52. T. V. B. Phung, H. Ogawa, **V. A. Dinh**, H. O. Nguyen, Y. Shibutani, K. Asano, Y. Nakamura, E. Akiba, *Effects of Substitutional Mo and Cr on Site Occupation and Diffusion of Hydrogen in the β -phase Vanadium Hydride by First Principles Calculations*. Theor. Chem. Acc. **138**, 16 (2019).
53. T. V. B. Phung, T. L. Pham, Y. Shibutani and **V. A. Dinh**, *Adsorption of the volatile organic compounds on Graphene*. Eur. Phys. J. B (2019). To be published.
54. T. D. Pham, H. D. Luong, K. Sato, Y. Shibutani and **V. A. Dinh**, *Two-dimensional Na_xSi as a promising anode material for rechargeable Sodium-based batteries: Ab initio material design*. Phys. Chem. Chem. Phys. (2019). To be published.

II. Book Chapters

55. K. Sato, M. Toyoda, T. Fukushima, **V. A. Dinh**, H. Kizaki and H. Katayama-Yoshida, *Computational Materials Design of ZnO-based Semiconductor Spintronics in Magnetism in Semiconducting Oxides*. Ed. by N. H. Hong. Transworld Research Network. ISBN: 81-7895-264-5 (2007).
56. H. Katayama-Yoshida, K. Sato, T. Fukushima, M. Toyoda, H. Kizaki, **V. A. Dinh**, *Computational Nano-materials Design for the Wide band-gap and High-T_c Semiconductors Spintronics* in Volume 82 of *Semiconductors and Semimetals*. Ed. by T. Dietl, D. D. Awschalom, M. Kaminska, and H. Ohno Elsevier Publishing. ISSN: 0080-8784. DOI:10.1016/S0080-8784(08)00010-0 (2008).
57. H. Katayama-Yoshida, K. Sato, M. Toyoda, **V. A. Dinh**, T. Fukushima and H. Kizaki, *Computational materials design of semiconductor nano-spintronics* in *Handbook of Spintronic Semiconductors* edited by W. M. Chen & I. A. Buyanova. Pan Stanford Publishing. ISBN-10: 9814267368. ISBN-13: 978-9814267366 (2010).

III. Conference

a. International Conference:

58. **V. A. Dinh** and M. Saitoh, *Theory of cyclotron resonance of correlated electrons*, The 23rd Intl. Conf. on Low Temp. Phys., Aug. 18-21, 2002. Hiroshima, Japan
59. **V. A. Dinh**, K. Sato and H. Katayama-Yoshida, *Codoping Methods of Mn and N for GaAs-based Diluted Magnetic Semiconductors*, 9th Symp. on the Phys. and Appl. of Spin-Related Phenon. in Semicond., June 11-12, 2003. Tokyo, Japan
60. **Dinh V. A.** and M. Saitoh, *Cyclotron resonance of Wigner crystal on helium liquid*, 15th Intl. Conf. on Elec. Properties of 2D Sys.(EP2DS-15), Jul. 20-24, 2003. Nara, Japan
61. **V. A. Dinh**, K. Sato and H. Katayama-Yoshida, *Codoping Methods of Mn and N for GaAs* The 6th Asian Workshop on First-Principles Elect. Struc. Calc. Nov. 10 – 12, 2003. Tsukuba, Japan
62. Y. Ohishi, **V. A. Dinh**, K. Sato, and H. Katayama-Yoshida, *Design of a method to raise Curie temperature by delta-doping and co-doping*, Intl. Symp. on Sci.&Indust. Nanotech., Dec. 8-9, 2003. Osaka, Japan.
63. **V. A. Dinh**, K. Sato and H. Katayama-Yoshida, *Ferromagnetism and Curie Temperature of V-doped Nitrides*, Intl. Symp. on the Creat. of Novel Nanomat. (ISCNN'04), Jan. 20-22, 2004. Osaka, Japan
64. **V. A. Dinh**, K. Sato and H. Katayama-Yoshida, *Enhancement of T_c by Carrier Codoping Method with size compensation for Nitride (GaN)*, Intl. Symp. on the Creat. of Novel

- Nanomat. (ISCNN'04), Jan. 20-22, 2004. Osaka, Japan
65. K. Kenmochi, **V. A. Dinh**, K. Sato, A. Yanase and H. Katayama-Yoshida, *Materials Design of DMS without TMS*, The 3rd Intl. Conf. on Phys. and Appl. of Spin-Related Pheno. in Semicond. (PASPS III), Jul. 20-24, 2004. Santa Barbara, CA, USA
 66. **V. A. Dinh**, K. Sato and H. Katayama-Yoshida, *Carrier Co-doping Method with Size Compensation to Enhance the T_c of Mn-doped Nitrides*, The 3rd Intl. Conf. on Phys. and Appl. of Spin-Related Pheno. in Semicond. (PASPS III), Jul. 20-24, 2004. Santa Barbara, CA, USA
 67. **V. A. Dinh**, K. Sato and H. Katayama-Yoshida, *Ferromagnetism and magnetic Transition Temperatures T_c of Nitride Ternary-based Dilute Magnetic Semiconductors*, Sanken Intl. Symp. on Sci.& Indust. Nanotech. 2004 (SISSIN-2004), Dec. 6-7, 2004. Osaka, Japan
 68. H. Katayama-Yoshida, K. Sato, K. Kenmochi, H. Fukushima, M. Toyoda, **A. V. Dinh**, H. Nakayama, I. Hamada, K. Funashima, H. Kizaki and A. Yanase, *Computational Materials Design from the First Principles: 21st Century's Alchemy and the Philosopher's Stone?*, Sanken Intl. Symp. on Sci.& Indust. Nanotech. 2004 (SISSIN-2004), Dec. 6-7, 2004. Osaka, Japan
 69. K. Kenmochi, M. Seike, **V. A. Dinh**, K. Sato, A. Yanase and H. Katayama-Yoshida, *Materials Design of Transparent and Half-Metallic Ferromagnetic Semiconductors without transition Metal Elements*, Intl. School and Conf. on Semicond. Spintronics and Quantum Info. Tech., Aug. 1-5, 2005. Awaji, Japan
 70. **V. A. Dinh**, K. Sato and H. Katayama-Yoshida, *Material Design of High- T_c SiO₂-based DMS with/without transition metal elements* Intl. School and Conf. on Semicond. Spintronics and Quantum Info. Tech., Aug. 1-5, 2005. Awaji, Japan
 71. **V. A. Dinh**, K. Sato and H. Katayama-Yoshida, *On the Stabilization of ferromagnetic phase in delta-doping GaMnN and SiO₂-based DMS with and without magnetic ions*, Psi_k 2005 Conf., Sep. 17-21, 2005. Schwaebisch Gmuend, Germany.
 72. **V. A. Dinh**, M. Toyoda, K. Sato and H. Katayama-Yoshida, *Pseudo-SIC calculation for AO - based DMS without transition metals (A = Mg, Ca, Ba, Sr)*, The 4th Intl. Conf. on Phys. and Appl. of Spin-Related Pheno. in Semicond. (PASPS-IV), Aug. 15-18, 2006. Sendai, Japan
 73. **V. A. Dinh**, M. Toyoda, K. Sato and H. Katayama-Yoshida, *Pseudo-SIC and Monte Carlo study of the ferromagnetism in C (N)-doped Alkaline Earth Metal Oxides*, Intl. Conf. on Comp. Magn. and Spintronics (CompMag 2006), Oct. 2- 4, 2006. Forschungszentrum Juelich, Germany.
 74. H. Katayama-Yoshida, K. Sato, T. Fukushima, M. Toyoda, H. Kizaki, **A. V. Dinh** and P. H. Dederichs, *Theory of new materials design and nano-process design of ferromagnetic semiconductors*, Intl. Conf. on Comp. Magn. and Spintronics (CompMag 2006), Oct. 2- 4, 2006. Forschungszentrum Juelich, Germany.
 75. **V. A. Dinh**, M. Toyoda, K. Sato and H. Katayama-Yoshida, *Ab initio materials design of ferromagnetic semiconductors without transition metal impurities: A New Class of DMS*, Material Research workshop of High- T_c DMS, Dec. 10 -11, 2006. Sendai, Japan
 76. **V. A. Dinh**, K. Sato and H. Katayama-Yoshida, *Ferromagnetism in Oxide-based DMS without transition metal impurities*, Nanosci. and Nanotech. Intl. Symp., Nov. 20-22, 2006. Osaka, Japan
 77. **V. A. Dinh**, K. Sato and H. Katayama-Yoshida, *Vacancy-induced ferromagnetism in HfO₂*, Intl. Conf. on Quantum Simulators and Design (QSD2006), Dec. 3-6, 2006. Hiroshima, Japan
 78. **V. A. Dinh**, M. Toyoda, K. Sato and H. Katayama-Yoshida, *Pseudo-SIC and Monte Carlo Study of magnetism in Co-doped SiO₂*, Intl. Conf. on Quantum Simulators and Design (QSD2006), Dec. 3-6, 2006. Hiroshima, Japan

79. H. Katayama-Yoshida, K. Sato, T. Fukushima, M. Toyoda, H. Kizaki, **A. V. Dinh** and P. H. Dederichs, *Ab initio Materials Design for Room Temperature Ferromagnetism in Diluted Magnetic Semiconductors*, MRS Spring Meeting, Apr. 9-13, 2007. San Francisco, CA, USA
80. **V. A. Dinh**, K. Sato and H. Katayama-Yoshida, *Spinodal decomposition thermodynamics and nano-scale phase separations in half-Heusler compounds XYZ from first principle calculation*, Intl. Conf. on Nanospintronic Design and Realization 2007 (ICNDR07). Max Planck Institute for the Physics of Complex Systems, May 21-25, 2007. Dresden, Germany
81. **V. A. Dinh**, K. Sato and H. Katayama-Yoshida, *Ferromagnetism in Half-Heusler Fe₃A (A=Si, B, C and N)*, The 4th Intl. school and conf. on spintronics and quantum info. Tech. (SPINTECH IV), Jun. 17-22, 2007. Maui, Hawaii, USA
82. **V. A. Dinh**, K. Sato and H. Katayama-Yoshida, *Structural and Magnetic properties of new high-T_c half-Heusler ferromagnets NiMnZ*, The 10th ASIAN workshop on First Principle Elect. Struct. Cal., Oct. 29-31, 2007. Hiroshima, Japan
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