

Curriculum vitae

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I. Personal data

Name : YUHARA, Junji

Nationality : Japan

Present working place and status :

Associate Professor

Department of Materials, Physics and Energy Engineering, School of Engineering,

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Present research : Surface Science : Nanoscale control of surface and interface for stainless steel surface corrosion, metal oxide thin film, two dimensional alloy, nanomesh and nanodot fabrication on surface, surface structure of quasicrystal, etc.

II. Academic degrees obtained

1991 Bachelor of engineering, Nagoya University, Department of Nuclear Engineering

1993 Master of engineering, Nagoya University, Department of Crystalline Materials Science

1995 Doctor of engineering, Nagoya University, Department of Crystalline Materials Science

III. Appointments

1995-1997 Research Associate, Department of Crystalline Materials Science, Nagoya University

1997-1993 Assistant Professor, Department of Crystalline Materials Science, Nagoya University

2003-2010 Associate Professor, Department of Physical Science and Engineering, Nagoya University

2011- Associate Professor, Department of Materials, Physics and Energy Engineering, Nagoya University

IV. Oversea experience

Sep. 1991 ~ June 1992

School of Engineering, University of Michigan, USA

Exchange student program between University of Michigan and Nagoya University,
supported by ministry of education of Japan and Michigan state, USA

April 2002 ~ March 2003

Physics institute, Vienna university of technology, Austria

Bilateral researcher's exchange program between Austria and Japan.

July 2005 ~ August 2005

Department of Physics, National University of Singapore

Bilateral researcher's exchange program between Singapore and Japan.

V. International collaboration

April 2006 ~ March 2008

Department of Physics, National University of Singapore

JSPS and NUS Bilateral Joint Research Program

VI. International conference organization

- 1) International Symposium on Isotope Science and Engineering from Basics to Applications, Sep. 2007, Nagoya, Japan, Symposium secretariat
- 2) International Symposium on Isotope Science and Engineering from Basics to Applications, Sep. 2005, Nagoya, Japan, Symposium secretariat
- 3) 15th International Workshop on Inelastic Ion Surface Collisions, Oct. 2004, Ise-shima, Japan, Local organizing committee
- 4) Third Japan-Russia Seminar on Semiconductor Surfaces, Nov, 2000, Nagoya, Japan, Local organizing committee
- 5) 2nd Japan-Russia Symposium on interactions of fast charged particles with solids, Oct, 1998, Nagoya, Japan, Symposium secretariat

I. Journal papers

- 1) Lap Hong Chan, Shinji Hayazaki, Kokushi Ogawa, Junji Yuhara, Growth and structure of Si and Ge in vanadium oxide nanomesh on Pd(111) studied by STM and DFT, Appl. Surf. Sci. in press (2012)
- 2) R. Zenkyu, J. Yuhara, T. Matsui, S. Shah Zaman, M. Schmid, P. Varga, Composition and local atomic arrangement for decagonal Al-Co-Cu quasicrystal surface, Phys. Rev. B 86, 115422 (8 pages) (2012)
- 3) J. Yuhara, S. Hayazaki, K. Ogawa, T. Matsui, Formation of monomer to tetramer Ag nanodots in vanadium oxide nanomesh on Pd(111), J. of Appl. Phys. 112, 034902 (5 pages) (2012)
- 4) H. Fujiyoshi, T. Matsui, J. Yuhara, Segregation and morphology on the surface of ferritic stainless steel (001), Appl. Surf. Sci. 258, pp7664-7667 (2012)
- 5) R. Zenkyu, D. Tajima, J. Yuhara, Disordered structure of ultra thin tin oxide film on Rh(100), J. of Appl. Phys. 111, 64907 (4 pages) (2012)
- 6) J. Yuhara, M. Yokoyama, T. Matsui, Two-dimensional alloy of immiscible Bi and Sn atoms on Rh(111), Surf. Sci. 606, pp456-460 (2012)
- 7) J. Yuhara, K. Ito, T. Matsui, Effects of impurities on surface morphology of Fe(111), Surf. Sci. 605, pp115-119 (2012)
- 8) J. Yuhara, M. Yokoyama, T. Matsui, Two-dimensional solid solution alloy of Bi-Pb binary films on Rh(111), J. of Appl. Phys. 110, 074314 (4 pages) (2011)
- 9) R. Zenkyu, T. Matsui, A.P. Tsai, J. Yuhara, Asymmetric pentagonal cluster on an Al-Cu-Co quasicrystal surface, Phil. Mag. 91, pp2854-2861 (2011)
- 10) J. Yuhara, M. Sato, T. Matsui, A. P. Tsai, Multi-cluster model of Al-Co-Ni Co-rich quasicrystal, Phil. Mag. 91, pp2846-2853 (2011)
- 11) M. Yokoyama, W.S. Liang, W. Chen, A.T.S. Wee, T. Matsui, J. Yuhara, Symmetrical transition of an atomic arrangement for two-dimensional Bi films on Rh(111) in the submonolayer regime, Surf. Sci. 605 pp844-847 (2011)
- 12) Yee Shin Chang, Ying-Chieh Lee, Junji Yuhara, Lap Hong Chan, Lay Gaik Teoh and Hong Ming Chen, Effect of water on the formation of nanostructured mesoporous titania, Curr. Appl. Phys. 11, pp486-491 (2011)
- 13) J. Yuhara, D. Tajima, T. Matsui, K. Tatsumi, S. Muto, M. Schmid, and P. Varga, Growth and structure of ultra thin tin oxide film on Rh(111), J. of Appl. Phys. 109, p24903 (2011)
- 14) D. Kato, T. Matsui, J. Yuhara, Oxidation of ultra-thin zinc films on a Rh(100) surface, Surf. Sci. 604, pp1283-1286 (2010)
- 15) J. Yuhara and T. Matsui, The roles of nitrogen and carbon in the preferential chromium segregation on the ferritic stainless steel (111) surface, Appl. Surf. Sci. 256 pp3438-3442 (2010)
- 16) Xingyu Gao, Shi Chen, Tao Liu, Wei Chen, A. T. S. Wee, T. Nomoto, S. Yagi, Kazuo Soda, Junji Yuhara, Si clusters on reconstructed SiC (0001) revealed by surface EXAFS, Appl. Phys. Lett. 95 (2009) 144102
- 17) Hong Liang Zhang, Wei Chen, Xue Sen Wang, Andrew Thye Shen Wee, Junji Yuhara, Growth of well-aligned Bi nanowire on Ag(111), Appl. Surf. Sci. 256, pp460-464 (2009)
- 18) Xingyu Gao, Shi Chen, Tao Liu, Wei Chen, A. T. S. Wee, T. Nomoto, S. Yagi, K. Soda, J. Yuhara, Disorder beneath the epitaxial graphene on SiC(0001): an x-ray absorption study, Phys. Rev. B78, pp201404-01 - 201404-04 (2008)
- 19) K. Morita, B. Tsuchiya, S. Nagata, K. Katahira, M. Yoshino, J. Yuhara, Y. Arita, T. Ishijima, H. Sugai, A water splitting model of Coulomb interactions of its dipole with surface defects of hydrogen implanted perovskite oxide, Solid State ionics 179 pp793-796 (2008)
- 20) S. Hayazaki, T. Matsui, H. L. Zhang, W. Chen, A. T. S. Wee, and J. Yuhara, Formation of bismuth nanodot in (4×4) vanadium oxide nanomesh on Pd(111), Surface Science 602, pp2025-2028 (2008)
- 21) Chen L, Chen W, Huang H, Zhang HL, Yuhara J, Wee ATS, Tunable C60 molecular chain arrays, Adv. Mat. 20, pp484-488 (2008)
- 22) Zhang HL, Chen W, Chen L, Huang H, Wang XS, Yuhara J, Wee ATS, C60 molecular chains on a-sexithiophene nanostripes, Small 3, pp2015-2018 (2007)
- 23) K. Morita, B. Tsuchiya, S. Nagata, K. Katahira, M. Yoshino, J. Yuhara, Y. Arita, T. Ishijima and H. Sugai, Temperature dependence of the D-H replacement rates in D-implanted oxide ceramics exposed to H₂O vapor Nucl. Instrum. Meth. B258 pp282-286 (2007)
- 24) T. Asai, M. Takeuchi, A. Urano, Y. Kobayashi, Y. Fukuda, J. Yuhara, T. Nagasaki, T. Matsui, Characterization of Ion Beam Deposited ¹⁰⁷Ag Thin Films on Si(111) Surface by means of Rutherford Backscattering Spectroscopy and Reflection High Energy Electron Diffraction, J. Nucl. Sci. and Tech. 43, pp386-390 (2006)
- 25) K. Morita, B. Tsuchiya, S. Nagata, K. Katahira, M. Yoshino, J. Yuhara, Y. Arita, H. Sugai, Water splitting and hydrogen emitting catalytic function of hydrogen-implanted oxide ceramics studied using ion beam technology, AIP Press 866, pp300-303 (2006)
- 26) K. Soda, H. Murayama, K. Shimba, S. Yagi, J. Yuhara, T. Takeuchi, U. Mizutani, H. Sumi, M. Kato, H. Kato, Y. Nishino, A. Sekiyama, S. Suga, T. Matsushita and Y. Saitoh, High-resolution soft x-ray photoelectron study of density of states and thermoelectric properties of the Heusler-type alloys (Fe_{2/3}V_{1/3})_{100-y}Al_y, Phys. Rev. B 71, pp245112-01 -

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- 27) K. Iwasaki, M. Shimada, H. Yamane, J. Takahashi, S. Kubota, T. Nagasaki, Y. Arita, J. Yuhara, Y. Nishi and T. Matsui, Electrical Resistivity and Seebeck Coefficient of $\text{Sr}_6\text{Co}_5\text{O}_{15}$, *J. Alloys Comp.* 377, pp272-276 (2004)
- 28) L. Kohler, G. Kresse, M. Schmid, E. Lundgren, J. Gustafson, A. Mikkelsen, M. Borg, J. Yuhara, J. N. Andersen, M. Marsman, and P. Varga, High-Coverage Oxygen Structures on Rh(111): Adsorbate Repulsion and Site Preference Is Not Enough, *Phys. Rev. Lett.* 93, pp266103-01 - 266103-04 (2004)
- 29) J. Yuhara, J. Klikovits, M. Schmid, P. Varga, Y. Yokoyama, T. Shishido, and K. Soda, Quasicrystalline structure of Al-Co-Ni decagonal surface resolved by STM-STS, ISS, and AES techniques, *Phys. Rev. B* 70, pp24203-01 - 24203-07 (2004)
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- 38) J. Yuhara, K. Soda, K. Morita, Adsorption of Ag on the $\text{Si}(111)\sqrt{3}\times\sqrt{3}$ -Au surface, *Surf. Sci.* 482/485, pp32-38 (2001)
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- 41) J. Yuhara, K. Matsuda, Y. Hattori, K. Morita, Studies on Thermal property and atomic structure of the (Bi,Sb)/ $\text{Si}(111)$ surface, *Appl. Surf. Sci.* 162-163, pp368-374 (2000)
- 42) D. Nakamura, J. Yuhara, K. Morita, Self-organization of monolayer (Pb,Sn) adsorbates at the $\text{Si}(111)$ surface recoil-implanted by keV ion impact, *Nucl. Instr. and Meth. B* 157, pp279-285 (1999)
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- 45) B. Tsuchiya, K. Soda, J. Yuhara, K. Morita and H. Iwahara, Thermal behavior of deuterium implanted into $\text{SrCe}_{0.95}\text{Yb}_{0.05}\text{O}_{3-\delta}$, *Solid State Ionics* 117, pp311-316 (1999)
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- 47) G. A. Mohamed, T. Yamazaki, N. Nakatani, J. Yuhara and K. Morita, Growth and optical properties of SbNbO_4 films, *Ferroelectrics* 218, pp199-208 (1998)
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- 50) D. Ishikawa, J. Yuhara, K. Soda, K. Morita, Ion impact desorption of binary noble metal adsorbates on the $\text{Si}(111)$ surface, *Nucl. Instr. and Meth. B* 135, pp314-318 (1998)
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- 57) J. Yuhara, R. Ishigami, D. Ishikawa, K. Morita, Dissolution and segregation of monolayer Cu, Ni and Co atoms on the Si(111) $\sqrt{3}\times\sqrt{3}$ -Ag surface induced by thermal annealing, Appl. Surf. Sci. 104/105, pp163-168 (1996)
- 58) Y. Fujiwara, N. Matsubara, J. Yuhara, M. Tabuchi, K. Fujita, N. Yamada, Y. Nonogaki, Y. Takeda, and K. Morita, Erbium d-doping to InP by OMVPE, in *Compound semiconductors 1995*, edited by Jong-Chun Woo and Yoon Soo Park, IOP Conf. Proc. No. 145 (Institute of Physics, London, 1996) pp149-154
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- 61) D. Ishikawa, J. Yuhara, R. Ishigami, K. Soda, K. Morita, Ar⁺ ion impact desorption of Cu and Ag from the Si(111)"5x5"-Cu and Cu/Si(111) $\sqrt{3}\times\sqrt{3}$ -Ag surfaces, Surf. Sci. 356, pp59-67 (1996)
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- 63) T. Okane, M. Yamada, S. Suzuki, S. Sato, T. Kinoshita, A. Kakizaki, T. Ishii, J. Yuhara, M. Kato, K. Morita, Photoemission study of Ce/Ni(110) system, J. Phys. Soc. of Japan. 64, pp1673-1682 (1995)
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- 66) J. Yuhara, R. Ishigami, K. Morita, The change of atomic structures and compositional ratios by thermal annealing of 2D Ag-Cu binary adsorbates on the Si(111) surface, Control of Semiconductor Interfaces ed. by I. Ohdomari et al., Elsevier Sci. B.V. pp399-404 (1994)
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- 68) J. Yuhara, M. Inoue, K. Morita, Thermal stability of 2D atomic structures of Au-Ag adsorbates on Si(111) surfaces, J. Vac. Sci. Technol. A11, pp2714-2717 (1993)
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II. Conference Proceedings

- 74) J. Yuhara and K. Morita, Thermal reaction processes of ternary metal adsorbates on the Si(111) surface by LEED-AES-RBS techniques and its 2D phase diagram, Proceedings of the Second Japan-Russia Seminar on Semiconductor Surfaces ed. by V. G. Lifshits, Vladivostok, Russia, pp134-137 (1999)
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- 76) J. Yuhara and K. Morita, Atomic structures and compositions of binary noble metal adsorbates on the Si(111) surface Induced by Thermal Annealing, Proceedings of the Second Japan-Russia Seminar on Semiconductor Surfaces ed. by K. Oura, Osaka, Japan, pp124-129 (1996)

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III. etc

- 78) Xingyu Gao, H. Miyazaki, S. Chen, A. T. S. Wee, T. Ito, S. Kimura, J. Yuhara and K. Soda, Fermi surface mapping of 8 ML Fe/Cu(001) by Angle-Resolved Ultraviolet Photoemission Spectroscopy, UVSOR Activity Report 2007, UVSOR Facility, IMS, p118 (IMS, 2008)
- 79) J. Yuhara, M. Sato, T. Matsui and A. P. Tsai, Atomic arrangement of Al-Co-Ni Co-rich quasicrystal and W(AlCoNi) crystalline approximant, Acta Cryst. A64, C623 (2008).
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