
Hiroshi Imada

Research Scientist, Surface and Interface Science Laboratory, RIKEN

Address: 2-1 Hirosawa, Wako, Saitama 351-0198, Japan

Telephone: (+81)-48-462-1111

Fax: (+81)-48-467-1945

E-mail: himada@riken.jp

Nationality: Japan

Web: <http://www.riken.go.jp/Kimlab/index.html>

EDUCATION

Tokyo Institute of Technology, Tokyo, Japan	Ph.D	Condensed Matter Physics	2010
Tokyo Institute of Technology, Tokyo, Japan	MS	Condensed Matter Physics	2006
Tokyo Institute of Technology, Tokyo, Japan	BS	Physics	2004

PROFESSIONAL ACTIVITIES

- Postdoctoral researcher, Surface and Interface Science Laboratory, RIKEN, Japan, May 2010 to March 2017.
- Research scientist, Surface and Interface Science Laboratory, RIKEN, Japan, April 2017 to Present.

AWARD AND HONORS

- Young Researcher Award, The Surface Science Society Japan (May, 2017).
- The 8th RIKEN Research Incentive Award (Mar. 2017).

MAIN SCIENTIFIC PUBLICATION

- “Single-molecule investigation of energy dynamics in a coupled plasmon-exciton system”
H. Imada, K. Miwa, M. Imai-Imada, S. Kawahara, K. Kimura and Y. Kim
Phys. Rev. Lett. 119 (2017) 013901 [arXiv: 1609.02701]
- “Real-space investigation of energy transfer in heterogeneous molecular dimers”
H. Imada, K. Miwa, M. Imai-Imada, S. Kawahara, K. Kimura and Y. Kim
Nature 538 (2016) 364-367.
- “Effects of molecule-insulator interaction on geometric property of a single phthalocyanine molecule adsorbed on an ultrathin NaCl film”
K. Miwa, H. Imada, S. Kawahara, and Y. Kim
Phys. Rev. B 93 (2016) 165419, 1-8.
- “Direct visualization of surface phase of oxygen molecules physisorbed on Ag(111) surface: A two-dimensional quantum spin system”
S. Yamamoto, Y. Yoshida, H. Imada, Y. Kim, and Y. Hasegawa
Phys. Rev. B 93 (2016) 081408(R).

- “Atomic-scale luminescence measurement and theoretical analysis unveiling electron energy dissipation at a *p*-type GaAs(110) surface”
H. Imada, K. Miwa, J. Jung, T. K. Shimizu, N. Yamamoto, and Y. Kim
Nanotechnology 26 (2015) 365402. [Selected as Nanotechnology Select]

RESEARCH INTERESTS

- Scanning tunneling microscopy
- Exciton dynamics
- Absorption/emission spectroscopy
- Nano-optics
- Plasmonics