

# Publication List

Taro Fukazawa (深澤 太郎)

September 23, 2018

## Presentations at Conferences

- T. Fukazawa and H. Akai. Exact-exchange based investigation of heusler alloys. In *The 10th Asian Workshop on First-principles electronic Structure Calculations*, Hiroshima University, Higashi-Hiroshima, Japan, October 2007. Poster presentation.
- T. Fukazawa and H. Akai. An effective approximate method of determining optimized effective potentials for extended systems. In *International Conference on Quantum Simulators and Design 2008*, Tokyo, Japan, May 2008. Poster presentation.
- Taro Fukazawa and Hisazumi Akai. A fast optimized effective potential method with EXX and RPA level correlation. In *International Symposium of Electronic Structure Calculations – Theory, Correlated and Large Scale Systems and Numerical methods–*, University of Tokyo, Japan, December 2009. Poster presentation.
- Taro Fukazawa and Hisazumi Akai. Development of a method of first principles electronic structure calculation using optimized effective potential. In *3rd-ICNDR: International Conference of Core Research and Engineering Science of Advanced Materials & Third International Conference on Nanospintronics Design and Realization*, May 2010. Poster presentation.
- Taro Fukazawa and Hisazumi Akai. Practical method of OEP scheme and its application to rpa level correlation energy. In *Psi-k Conference 2010*, Henry Ford Building, Berlin, Germany, September 2010. Oral presentation.
- Taro Fukazawa. Development of a method of first-principles electronic structure calculation using the optimized effective potential method. In *INSND Nanoscience Seminar (No.2)*, Graduate School of Science, Osaka University, Japan, February 2011. Oral presentation.
- Taro Fukazawa. Development of a method of first-principles calculation using the optimized effective potentials. In *“International Workshop on Nano-Spintronics” and “JSPS core-to-Core Program Kick-Off Meeting”*, June 2012. Poster presentation.

- Taro Fukazawa. Reformulated optimized effective potentials and its application with static random-phase-approximation correlation. In *International Symposium on Computics: Quantum Simulation and Design (ISC-QSD)*, Osaka University Hall, Osaka, Japan, October 2012. Poster presentation.
- Takao Kotani, Hiori Kino, and Taro Fukazawa. Quasiparticle self-consistent gw method in the linearized (apw+mto) method. In *International Symposium on Computics: Quantum Simulation and Design (ISC-QSD)*, Osaka University Hall, Osaka, Japan, October 2012. Poster presentation.
- Masaaki Geshi and Taro Fukazawa. Band gap opening of  $\text{AlH}_3$  under high pressure. In *8th Handai Nanoscience and Nanotechnology International Symposium*, Ichō-kaikan, Osaka University, Japan, December 2012. Poster presentation.
- Taro Fukazawa and Hisazumi Akai. Optimized effective potential method and its application to static RPA correlation. In *Green's Functions in ab initio Electronic Structure Calculations of Solids: From Implementation to Applications*, Physikzentrum Bad Honnef, Germany, February 2015. Oral presentation.
- Taro Fukazawa, Hisazumi Akai, Yosuke Harashima, and Takashi Miyake. Inter-site magnetic couplings in  $\text{NdFe}_{12-\delta}\text{M}_\delta$  ( $\text{M} = \text{K-Br}$ ). In *CSW2017*, Shonan Village Center, Japan, March 2017. Poster presentation.
- Yosuke Harashima, Taro Fukazawa, Kiyoyuki Terakura, Hiori Kino, Shoji Ishibashi, and Takashi Miyake. Effects of crystal structure and nitrogenation on magnetization and magnetocrystalline anisotropy in  $\text{Y}_{n-m}\text{Fe}_{5n+2m}$  [(n,m)=(1,0), (2,1), (3,1)]. In *CSW2017*, Shonan Village Center, Japan, March 2017. Poster presentation.
- Taro Fukazawa, Hisazumi Akai, Yosuke Harashima, and Takashi Miyake. First-principles study of spin-wave dispersion in  $\text{Sm}(\text{FeCo})_{12}$ . In *Intermag2018*, Marina Bay Sands Convention Centre, Singapore, April 2018. Poster presentation.

## Awards

- Student poster award, June 2010. 3rd-ICNDR: International Conference of Core Research and Engineering Science of Advanced Materials & Third International Conference on Nanospintronics Design and Realization.
- Best RA award, 2011. “Core Research and Engineering of Advanced Materials–Interdisciplinary Education Center for Materials Science” project, Osaka University, supported by Global COE program, MEXT, Japan.
- A winner of “Art in magnetism” contest by Judges’ Selection, 2011. 2018 IEEE International Magnetism Conference (Intermag2018).