

## **Masayuki Suda**

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### **Education**

2005 B.S. in Materials Chemistry (KEIO University)  
2007 M.S. in Materials Chemistry (KEIO University)  
2009 Ph. D in Materials Chemistry (KEIO University)

### **Academic Experience**

2008-2009: JSPS Research Fellowship for Young Scientists (DC2), KEIO University  
2009-2010: JSPS Research Fellowship for Young Scientists (PR) , KEIO University  
2010-2011: Postdoctoral Researcher, RIKEN  
2011-2012: Special Postdoctoral Researcher, RIKEN  
2012-present: Assistant Professor, Institute for Molecular Science

### **Selected Awards and Honors**

2018: The Young Scientists' Prize (The Commendation for Science and Technology by the Minister of Education, Culture, Sports, Science and Technology)  
2017: Condensed Matter Science Prize  
2017: Morino Foundation for Molecular Science  
2017: NINS Young Researcher Award  
2016: CSJ Award for Young Chemists  
2016: Nagoya University Ishida Prize  
2016: Young Scientist Awards of the Japan Society for Molecular Science  
2016: PCCP prize (The Royal Society of Chemistry)  
2009: Fujiwara Award (KEIO Univ.)

## Selected Publications

1. "Size Effects on Supercooling Phenomena in Strongly Correlated Electron Systems: IrTe<sub>2</sub> and θ-(BEDT-TTF)<sub>2</sub>RbZn(SCN)<sub>4</sub>"  
H. Oike, M. Suda, M. Kamitani, A. Ueda, H. Mori, Y. Tokura, H. M. Yamamoto and F. Kagawa  
*Phys. Rev. B* **97**, 085102 (2018).
2. "Mott Transition by an Impulsive dielectric Breakdown"  
H. Yamakawa, T. Miyamoto, T. Morimoto, T. Tanishige, H. Yada, N. Kida, M. Suda, H. M. Yamamoto, R. Kato, K. Miyagawa, K. Kanoda and H. Okamoto  
*Nat. Mater.*, **16**, 1100-1105 (2017).
3. "N-type Superconductivity in an organic Mott insulator induced by light-driven electron-doping"  
M. Suda, N. Takashina, S. Namuangruk, N. Kungwan, H. Sakurai and H. M. Yamamoto  
*Adv. Mater.* **29**, 1606833 (2017).
4. "Critical Behavior in Doping-driven Metal-insulator Transition on Single-crystalline Organic Mott FET"  
Y. Sato, Y. Kawasugi, M. Suda, H. M. Yamamoto and R. Kato  
*Nano Lett.* **17**, 708-714 (2017).
5. "Light-induced Superconductivity using a Photoactive Electric Double Layer"  
M. Suda, R. Kato and H. M. Yamamoto,  
*Science* **347**, 743-746 (2015).
6. "Strain-Tunable Superconducting Field-Effect Transistor with an Organic Strongly-Correlated Electron System"  
M. Suda, Y. Kawasugi, T. Minari, K. Tsukagoshi, R. Kato, and H. M. Yamamoto,  
*Adv. Mater.*, **26**, 3490-3495 (2014).
7. "A strained organic field-effect transistor with a gate-tunable superconducting channel"  
H. M. Yamamoto, M. Nakano, M. Suda, Y. Iwasa, M. Kawasaki and R. Kato  
*Nature Commun.* **4**, 2379/1-2379/7 (2013).
8. "Quantum Hall effect in multilayered massless Dirac fermion systems with tilted cones"  
N. Tajima, T. Yamauchi, T. Yamaguchi, M. Suda, Y. Kawasugi, H. M. Yamamoto, R. Kato, Y. Nishio and K. Kajita  
*Phys. Rev. B*, **88**, 075315/1-6 (2013).
9. "Reversible Optical Manipulation of Superconductivity"  
Ikegami, M. Suda, T. Watanabe, and Y. Einaga  
*Angew. Chem. Int. Ed.*, **49**(2), 372-374 (2010).
10. "Reversible Photo-Tuning of Large Anisotropic Magnetization at Interface between Self-Assembled Photochromic Monolayer and Gold"  
M. Suda, N. Kameyama, A. Ikegami, and Y. Einaga  
*J. Am. Chem. Soc.*, **131**(2), 865-870 (2009).
11. M. Suda and Y. Einaga  
"Sequential Assembly of Ferromagnetic Ultra-Thin Films with Perpendicular Magnetic Anisotropy"  
*Angew. Chem. Int. Ed.*, **48**(10), 1754-1757 (2009).
12. M. Suda, N. Kameyama, M. Suzuki, N. Kawamura, and Y. Einaga  
"Reversible Photo-Tuning of Ferromagnetism at Au-S Interfaces at Room Temperature"  
*Angew. Chem. Int. Ed.*, **47**(1), 160-163 (2008).
13. "Reversible Photo-Switching of Ferromagnetic FePt Nanoparticles at Room Temperature"  
M. Suda, M. Nakagawa, T. Iyoda, and Y. Einaga  
*J. Am. Chem. Soc.*, **129**(17), 5538-5543 (2007).