

# Curriculum Vitae

(Last updated: April 3, 2024)

## *Basic Information*

- **Name:** Satoshi TSUCHIYA
- **Current Research Interests:**
  - Pseudogap phenomena and superconductivity in a strongly correlated electron system
  - Development of ultrafast time-resolved spectroscopy under high pressure and low temperature
- **Address:**

Department of Applied Physics, Faculty of Engineering, Hokkaido University  
Kita13 Nishi8 Kitaku, Sapporo, Hokkaido, Japan  
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## *Educational Background*

- Ph. D.: March 2010, Graduate School of Engineering, Hokkaido University  
Dissertation: Laboratory Test for The Early Universe: Structural Effects of Hierarchy in Superconducting Networks  
(Supervisor: Prof. S. Tanda)
- M. S.: March 2007, Graduate School of Engineering, Hokkaido University
- B. S.: March 2005, Graduate School of Engineering, Hokkaido University

## *Professional History*

- Visiting researcher (September 2017 - June 2018)  
Department for Complex Matter (Asoc. Prof. T. Mertelj and Prof. D. Mihailovic), Jozef Stefan Institute, Slovenia
- Assistant professor (August 2013 - Present)  
Faculty of Engineering, Hokkaido University, Toda Group
- Project researcher (April 2013 - July 2013)  
Institute for Solid State Physics, The University of Tokyo, Uwatoko Group
- Postdoctoral researcher (April 2010 - March 2013)  
National Institute for Materials Science, Uji Group

## List of Publications

### Article in Journals:

† Corresponding author

1. T. Akiba, Y. Toda, **S. Tsuchiya**, M. Oda T. Kurosawa, D. Mihailovic and T. Mertel  
Title: Photoinduced quasiparticle dynamics of single CuO<sub>2</sub>-layer Bi-based cuprates with out-of-plane disorder  
[Phys. Rev. B 109, 014503 \(2024\)](#)
2. **S. Tsuchiya**, N. Kanai, R. Oka, T. Naito, and Y. Toda  
Title: Effects of molecular substitution in organic conductors  $\alpha$ -(ET)<sub>2</sub>I<sub>3</sub> and  $\alpha$ -(STF)<sub>2</sub>I<sub>3</sub> studied by polarized femtosecond spectroscopy  
[J. Phys. Soc. Jpn. 92, 094703 \(2023\)](#)
3. Y. Toda, **S. Tsuchiya**, K. Yamane, R. Morita, M. Oda T. Kurosawa, T. Mertelj, and D. Mihailovic  
Title: Optical vortex induced spatio-temporally modulated superconductivity in a high- $T_c$  cuprate  
[Optics Express 31, 17537 \(2023\)](#)
4. K. Nakagawa, †**S. Tsuchiya**, H. Taniguchi, Y. Toda  
Title: Probing uniform and nonuniform charge ordering with polarized femtosecond optical pulses in geometrically frustrated  $\theta$ -(BEDT-TTF)<sub>2</sub>MZn(SCN)<sub>4</sub> ( $M = \text{Rb}, \text{Cs}$ )  
[Phys. Rev. Research 5, 013024 \(2023\)](#), [Erratum](#)
5. K. Nakagawa, T. Sato, †**S. Tsuchiya**, J. Yamada, and Y. Toda  
Title: Enhancement of polarization anisotropy in ultrafast carrier dynamics by intramolecular excitation in the organic conductor  $\kappa$ -(BEDT-TTF)<sub>2</sub>Cu(NCS)<sub>2</sub>  
[Europhys. Lett. 136, 57001\(1-7\) \(2021\)](#)
6. **S. Tsuchiya**, H. Taniguchi, J. Yamada, Y. Toda, D. Mihailovic and T. Mertelj,  
Title: Ultrafast dynamics of Mott state quench and formation in strongly correlated BEDT-TTF molecular conductors observed by three-pulse pump probe spectroscopy  
[Phys. Rev. B 104, 115152\(1-6\) \(2021\)](#)
7. Y. Toda, **S. Tsuchiya**, M. Oda T. Kurosawa, S. Katsumata, M. Naseska, T. Mertelj, and D. Mihailovic  
Title: Ultrafast transient reflectivity measurements of optimally doped Bi<sub>2+x</sub>Sr<sub>2-x</sub>CaCu<sub>2</sub>O<sub>8+ $\delta$</sub>  with disorder  
[Phys. Rev. B 104, 094507\(1-9\) \(2021\)](#)
8. **S. Tsuchiya**, R. Kuwae, T. Kodama, Y. Nakamura, M. Kurihara, T. Yamamoto, T. Naito, and Y. Toda  
Title: Electronic Inhomogeneity in an Organic Charge Transfer Salt  $\kappa$ -(BEDT-TTF)<sub>2</sub>Cu[N(CN)<sub>2</sub>]I Probed by Polarized Femtosecond Spectroscopy  
[J. Phys. Soc. Jpn. 89, 064712\(1-6\) \(2020\)](#)
9. M. Naseska, P. Sutar, D. Vengust, **S. Tsuchiya**, M. Ceh, D. Mihailovic, and T. Mertelj  
Title: Orbitally driven insulator-metal transition in CuIr<sub>2</sub>S<sub>4</sub>: Temperature dependent transient reflectivity study  
[Phys. Rev. B 101, 165134\(1-6\) \(2020\)](#)
10. **S. Tsuchiya**, K. Nakagawa, J. Yamada, and Y. Toda  
Title: Polarization-resolved ultrafast spectroscopy in an organic Mott insulator  $\kappa$ -(BEDT-TTF)<sub>2</sub>Cu[N(CN)<sub>2</sub>]Cl  
[J. Phys. Soc. Jpn. 88, 074706\(1-7\) \(2019\)](#)
11. K. Nakagawa, **S. Tsuchiya**, J. Yamada, and Y. Toda  
Title: Fluctuating superconductivity in strongly correlated organic superconductors probed by polarized time-resolved spectroscopy  
[Europhys. Lett. 122, 67003\(1-6\) \(2018\)](#)

12. **S. Tsuchiya**, K. Nakagawa, J. Yamada, H. Taniguchi, and Y. Toda  
Title: Photoinduced phase separation with a local structural ordering in organic molecular conductors  
[Phys. Rev. B 96, 134311\(1-6\) \(2017\)](#)
13. **S. Tsuchiya**, T. Mochiku, S. Ooi, K. Hirata, K. Sugii, T. Terashima, and S. Uji  
Title: Diamagnetic torque signal and temperature-dependent paramagnetism in  $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$   
[J. Phys. Soc. Jpn. 86, 114711\(1-5\) \(2017\)](#)
14. **S. Tsuchiya**, K. Matsubayashi, K. Yamaya, S. Takayanagi, S. Tanda and Y. Uwatoko  
Title: Effects of pressure and magnetic field on superconductivity in  $\text{ZrTe}_3$ : Local pair-induced superconductivity  
[New J. Phys. 19, 063004\(1-10\) \(2017\)](#)
15. **S. Tsuchiya**, Y. Kino, K. Nakagawa, D. Nakagawa, J. Yamada, Y. Toda  
Title: Development of an optical time-resolved measurement system under high-pressure and low-temperature with a piston-cylinder pressure cell  
[Rev. Sci. Instrum. 87, 043104\(1-6\) \(2016\)](#)
16. K. Watanabe, **S. Tsuchiya**, Y. Toda, T. Kurosawa, M. Oda, T. Mertelj, I. Madan, V. V. Kabanov, D. Mihailovic  
Title: Time-resolved polarimetry for photoexcited QP dynamics in  $\text{Bi}_2\text{Te}_3$   
[Int. J. Mod. Phys. B 29, 1542031\(1-7\) \(2015\)](#)
17. S. Uji, K. Kodama, K. Sugii, T. Terashima, N. Kurita, **S. Tsuchiya**, M. Kimata, A. Kobayashi, B. Zhou, and H. Kobayashi  
Title: Vortex Dynamics and Diamagnetic Torque Signals in Two Dimensional Organic Superconductor  $\lambda\text{-(BETS)}_2\text{GaCl}_4$   
[J. Phys. Soc. Jpn. 84, 104709\(1-7\) \(2015\)](#)
18. **S. Tsuchiya**, Y. Sugawara, S. Tanda and Y. Toda  
Title: Symmetry-dependent carrier relaxation dynamics and charge-density-wave transition in  $\text{DyTe}_3$  probed by polarized femtosecond spectroscopy  
[J. Opt. 17, 085501\(1-7\) \(2015\)](#)
19. **S. Tsuchiya**, J. Yamada, K. Sugii, D. Graf, J. S. Brooks, T. Terashima and S. Uji  
Title: Phase Boundary in a Superconducting State of  $\kappa\text{-(BEDT-TTF)}_2\text{Cu(NCS)}_2$ : Evidence of the Fulde-Ferrell-Larkin-Ovchinnikov Phase  
[J. Phys. Soc. Jpn. 84, 034703\(1-6\) \(2015\)](#)
20. T. Isono, H. Kamo, A. Ueda, K. Takahashi, M. Kimata, H. Tajima, **S. Tsuchiya**, T. Terashima, S. Uji, and H. Mori  
Title: Gapless Quantum Spin Liquid in an Organic Spin-1/2 Triangular-Lattice  $\kappa\text{-H}_3(\text{Cat-EDT-TTF})_2$   
[Phys. Rev. Lett. 112, 177201\(1-5\) \(2014\)](#)
21. S. Yasuzuka, S. Uji, T. Terashima, **S. Tsuchiya**, K. Sugii, B. Zhou, H. Kobayashi, and A. Kobayashi  
Title: In-Plane Anisotropy of the Flux-Flow Resistivity in the  $d$ -Wave Organic Superconductor  $\lambda\text{-(BETS)}_2\text{GaCl}_4$   
[J. Phys. Soc. Jpn. 83, 013705\(1-4\) \(2014\)](#)
22. K. Sugii, K. Takai, **S. Tsuchiya**, S. Uji, T. Terashima, H. Akutsu, A. Wada, S. Ichikawa, J. Yamada, and T. Enoki  
Title: Magnetic Torque Studies of of  $\pi$ -d System  $\kappa\text{-(BDH-TTF)}_2\text{FeX}_4$  ( $X = \text{Br, Cl}$ )  
[J. Phys. Soc. Jpn. 83, 023704\(1-4\) \(2014\)](#)
23. T. Terashima, N. Kurita, M. Kimata, M. Tomita, **S. Tsuchiya**, M. Imai, A. Sato, K. Kihou, C. Lee, H. Kito, H. Eisaki, A. Iyo, T. Saito, H. Fukazawa, Y. Kohori, S. Uji  
Title: Fermi surface in  $\text{KFe}_2\text{As}_2$  determined via de Haas-van Alphen oscillation measurements  
[Phys. Rev. B 87, 224512\(1-13\) \(2013\)](#)

24. **S. Tsuchiya**, J. Yamada, T. Terashima, N. Kurita, K. Kodama, K. Sugii and S. Uji  
Title: Fluctuating superconductivity in the strongly correlated organic superconductor  $\kappa$ -(BEDT-TTF)<sub>2</sub>Cu[N(CN)<sub>2</sub>]Br  
[J. Phys. Soc. Jpn. 82, 064711\(1-5\) \(2013\)](#)
25. T. Terashima, K. Kihou, M. Tomita, **S. Tsuchiya**, N. Kikugawa, S. Ishida, C. Lee, A. Iyo, H. Eisaki, and S. Uji  
Title: Hysteretic superconducting resistive transition in Ba<sub>0.07</sub>K<sub>0.93</sub>Fe<sub>2</sub>As<sub>2</sub>  
[Phys. Rev. B 87, 184513\(1-5\) \(2013\)](#)
26. S. Uji, K. Kodama, K. Sugii, Y. Takahide, T. Terashima, N. Kurita, **S. Tsuchiya**, M. Kohno, M. Kimata, K. Yamamoto and K. Yakushi  
Title: Kosterlitz-Thouless type transition in charge order state of layered organic conductor  $\alpha$ -(BEDT-TTF)<sub>2</sub>I<sub>3</sub>  
[Phys. Rev. Lett. 110, 196602\(1-5\) \(2013\)](#)
27. S. Uji, K. Kodama, K. Sugii, T. Terashima, Y. Takahide, N. Kurita, **S. Tsuchiya**, M. Kimata, T. Konoike, A. Kobayashi, B. Zhou, and H. Kobayashi  
Title: Orbital Effect on FFLO Phase and Energy Dissipation due to Vortex Dynamics in Magnetic-Field-Induced Superconductor  $\lambda$ -(BETS)<sub>2</sub>FeCl<sub>4</sub>  
[J. Phys. Soc. Jpn. 82, 034715\(1-8\) \(2013\)](#)
28. **S. Tsuchiya**, J. Yamada, S. Tanda, K. Ichimura, T. Terashima, N. Kurita, K. Kodama, and S. Uji  
Title: Fluctuating superconductivity under in-plane magnetic field for a strongly correlated two-dimensional organic superconductor  
[Phys. Rev. B 85, 220506\(R\)\(1-4\) \(2012\)](#)
29. S. Uji, K. Kodama, K. Sugii, T. Terashima, Y. Takahide, N. Kurita, **S. Tsuchiya**, M. Kimata, A. Kobayashi, B. Zhou, and H. Kobayashi  
Title: Magnetic Torque Studies on FFLO Phase in Magnetic-Field-Induced Organic Superconductor  $\lambda$ -(BETS)<sub>2</sub>FeCl<sub>4</sub>  
[Phys. Rev. B 85, 174530\(1-6\) \(2012\)](#)
30. A. Harada, K. Enomoto, Y. Takahide, M. Kimata, T. Yakabe, K. Kodama, H. Satsukawa, N. Kurita, **S. Tsuchiya**, T. Terashima and S. Uji  
Title: Flow of a Single Magnetic Vortex in a Submicron-Size Superconducting Al Disk Controlled by Radio-Frequency Currents  
[Phys. Rev. Lett. 107, 077002\(1-4\) \(2011\)](#)
31. **S. Tsuchiya** and S. Tanda  
Title: Superconducting Networks with the Proximity Effect  
[Europhys. Lett. 94, 47008\(1-5\) \(2011\)](#)
32. H. Nobukane, K. Inagaki, **S. Tsuchiya**, Y. Asano, K. Ichimura, K. Yamaya, S. Takayanagi, I. Kawasaki, K. Tenya, H. Amitsuka, and S. Tanda  
Title: Transport Properties in a Single Domain of Microscale Sr<sub>2</sub>RuO<sub>4</sub> Single Crystals  
[Jpn. J. Appl. Phys. 49, 020209\(1-3\) \(2010\)](#)
33. **S. Tsuchiya**, T. Toshima, H. Nobukane, K. Inagaki, and S. Tanda  
Title: Duality Breaking of Vortex configuration in a Hierarchical Honeycomb Network  
[Phys. Rev. B 80, 094502\(1-4\) \(2009\)](#)

*Proceedings contributed to International conferences:*

1. **S. Tsuchiya**, M. Katsumi, R. Oka, T. Naito, and Y. Toda  
Title: Ultrafast pump-probe spectroscopy in organic Dirac electron candidate  $\alpha$ -(BETS)<sub>2</sub>I<sub>3</sub>  
[Condensed Matter 8, 88 \(2023\)](#)
2. **S. Tsuchiya**, K. Nagata, H. Taniguchi, Y. Toda  
Title: Ultrafast optical spectroscopy in the normal state of organic superconductor  $\beta$ -(BEDT-TTF)<sub>2</sub>I<sub>3</sub>  
[JPS Conf. Proc. 38, 011038 \(2023\)](#)

3. K. Nakagawa, **S. Tsuchiya**, H. Taniguchi, and Y. Toda  
 Title: Polarized time-resolved spectroscopy of electronic phase separation in a dimer-Mott organic insulator  
[J. Supercond. Nov. Magn. 33, 2427-2433 \(2020\)](#)
4. **S. Tsuchiya**, T. Mertelj, D. Mihailovic, J. Yamada, and Y. Toda  
 Title: Ultrafast Carrier Dynamics in an Organic Superconductor  $\kappa$ -(BEDT-TTF)<sub>2</sub>Cu[N(CN)<sub>2</sub>]Br by Spectrally Resolved Pump-Probe Spectroscopy  
[J. Supercond. Nov. Magn. 33, 2299-2303 \(2020\)](#)
5. Y. Toda, H. Mochizuki, **S. Tsuchiya**, T. Kurosawa, M. Oda, T. Mertelj, D. Mihailovic  
 Nonequilibrium quasiparticle dynamics in Bi-based superconductors measured by modulation photoexcitation spectroscopy  
[J. Supercond. Nov. Magn. 31, 753-6 \(2018\)](#)
6. **S. Tsuchiya**, K. Nakagawa, J. Yamada, and Y. Toda  
 Title: Carrier relaxation dynamics in the organic superconductor  $\kappa$ -(BEDT-TTF)<sub>2</sub>Cu(NCS)<sub>2</sub> under pressure  
[J. Supercond. Nov. Magn. 29, 3071-4 \(2016\)](#)
7. K. Nakagawa, **S. Tsuchiya**, J. Yamada, and Y. Toda  
 Title: Pump- and probe-polarization analyses of ultrafast carrier dynamics in organic superconductors  
[J. Supercond. Nov. Magn. 29, 3065-9 \(2016\)](#)
8. T. Terashima, N. Kurita, M. Kimata, M. Tomita, **S. Tsuchiya**, H. Satsukawa, A. Harada, K. Hazama, M. Imai, A. Sato, S. Uji, K. Kihou, C. Lee, H. Kito, Y. Tomioka, T. Ito, A. Iyo, H. Eisaki, T. Liang, M. Nakajima, S. Ishida, S. Uchida, T. Saito, H. Fukazawa, Y. Kohori and H. Harima  
 Title: Quantum oscillations in iron-based superconductors: BaFe<sub>2</sub>As<sub>2</sub> vs. KFe<sub>2</sub>As<sub>2</sub>  
[J. Phys.: Conf. Ser. 449, 012022\(1-6\) \(2013\)](#)
9. K. Kodama, N. Kurita, **S. Tsuchiya**, T. Terashima, S. Uji, S. Noguchi and T. Sugimoto  
 Title: Magnetic field effect on charge transport in  $\pi$ -d system (EDT-TTFVO)<sub>2</sub>FeBr<sub>4</sub>  
[Phys. Status Solidi C 9, 1202-4 \(2012\)](#)
10. **S. Tsuchiya** and S. Tanda  
 Title: Proximity Effect-Induced Superconducting Networks  
[J. Phys.: Conf. Ser. 150, 022090\(1-4\) \(2009\)](#)
11. **S. Tsuchiya**, T. Toshima, H. Nobukane, K. Inagaki, and S. Tanda  
 Title: Little-Parks Oscillation in a Hierarchical Superconducting Network  
[J. Phys.: Conf. Ser. 150, 022089\(1-4\) \(2009\)](#)
12. H. Nobukane, **S. Tsuchiya**, K. Konno, K. Inagaki, I. Kawasaki, K. Tenya, Y. Maeno, and S. Tanda  
 Title: Magnetic Rapid Quench Measurement in U(1) and SU(2) superconductor  
[J. Phys.: Conf. Ser. 150, 052187\(1-4\) \(2009\)](#)
13. **S. Tsuchiya**, T. Kikuchi, H. Takahashi, K. Inagaki, and S. Tanda  
 Title: Experimental study of two and three-dimensional superconducting networks  
 Proceeding of the 1st international conference on Topology in Ordered Phase, pp 367-371 (2006)

***Oral Presentations at International Conferences:***

(Displayed only the presentations that S.T. made a considerable contribution)

1. (Invited) **S. Tsuchiya**, N. Kanai, M. Katsumi, R. Oka, T. Naito and Y. Toda  
 Title: Ultrafast pump-probe spectroscopic study of low-temperature phases in organic Dirac electron systems  
 International Conference of Superstripes 2023, Ischia, Italy, June 2023

2. (Invited) **S. Tsuchiya**, T. Mertelj, D. Mihailovic, J. Yamada, H. Taniguchi, Y. Toda  
Title: A multi pulse optical study on anomalous nonequilibrium polarization dynamics above  $T_c$  in organic superconductors  
International Conference of Superstripes 2019, Ischia, Italy, June 2019
3. K. Nakagawa, **S. Tsuchiya**, H. Taniguchi, Y. Toda  
Title: Photo-induced carrier relaxation dynamics in glassy electronic state of geometrically frustrated organic conductor  
International Conference of Superstripes 2019, Ischia, Italy, June 2019
4. (Invited) **S. Tsuchiya**, D. Nakagawa, Y. Toda  
Title: Development of optical pump probe spectroscopy under uniaxial pressure: Application to strongly correlated superconductors  
Study of Matter at Extreme Conditions 2019, Miami, USA, March - April 2019
5. (Invited) **S. Tsuchiya**, R. Kuwae, T. Kodama, Y. Nakamura, M. Kurihara, T. Yamamoto, T. Naito, Y. Toda  
Title: Characterization of electronic states in  $\kappa$ -(BEDT-TTF)<sub>2</sub>Cu[N(CN)<sub>2</sub>]I by polarized pump probe spectroscopy  
Nonequilibrium Phenomena in Quantum Systems, Krvavec, Slovenia, December 2017
6. K. Nakagawa, **S. Tsuchiya**, J. Yamada, and Y. Toda  
Title: Electron Correlation Effect on Non-equilibrium Phase Separation Studied by Polarized Femtosecond Spectroscopy  
The Emallia Conference 2016 Winter, Hokkaido, Japan, December 2016
7. (Invited) **S. Tsuchiya**, K. Nakagawa, J. Yamada, and Y. Toda  
Title: Femtosecond relaxation dynamics in strongly correlated organic superconductors  $\kappa$ -(BEDT-TTF)<sub>2</sub>X (X = Cu[N(CN)<sub>2</sub>]Br, Cu(NCS)<sub>2</sub>)  
The EMN Meeting on Ultrafast 2016, Melbourne, Australia, October 2016
8. (Invited) **S. Tsuchiya**, K. Nakagawa, J. Yamada, and Y. Toda  
Title: Quasiparticle dynamics in the organic superconductors investigated with polarized femtosecond spectroscopy  
International Conference of Superstripes 2016, Ischia, Italy, June 2016
9. (Invited) K. Nakagawa, **S. Tsuchiya**, J. Yamada, and Y. Toda  
Title: Fluctuating Superconductivity in the Strongly Correlated Organic Superconductors in  $\kappa$ -(BEDT-TTF)<sub>2</sub>X (X = Cu[N(CN)<sub>2</sub>]Br, Cu(NCS)<sub>2</sub>) Studied by Polarized Femtosecond Spectroscopy  
International Conference of Superstripes 2016, Ischia, Italy, June 2016
10. **S. Tsuchiya**, J. Yamada, T. Terashima, A. Harada, N. Kurita, K. Kodama, and S. Uji  
Title: Fluctuating superconductivity under in-plane magnetic field in a strongly correlated superconductor  $\kappa$ -(BEDT-TTF)<sub>2</sub>Cu[N(CN)<sub>2</sub>]Br  
International Symposium on Crystalline Organic Metals, Superconductors and Ferromagnets, Gniezno, Poland, September 2011
11. **S. Tsuchiya**, T. Toshima, H. Nobukane, K. Inagaki, and S. Tanda  
Title: Effects of Hierarchical Structure in Superconducting Networks  
International Symposium on Nanoscale Transport and Technology, Kanagawa, Japan, January 2009

***Poster Presentations at International Conferences:***

(Displayed only the presentations that S.T. made a considerable contribution)

1. Y. Wada, T. Sugioka, **S. Tsuchiya**, H. Taniguchi and Y. Toda  
Title: Polarization-resolved ultrafast spectroscopy of charge glass in  $\theta$ -(BEDT-TTF)<sub>2</sub>RbZn(SCN)<sub>2</sub>”  
The 22nd Japan-Korea-Taiwan Symposium on Strongly Correlated Electron Systems, Kagoshima, Japan, March 2023

2. **S. Tsuchiya**, K. Nakagawa, H. Taniguchi, and Y. Toda  
 Title: A glassy structural transition in a charge-frustrated organic conductor probed by polarized femtosecond spectroscopy  
 9th International Discussion Meeting on Relaxations in Complex Systems, Chiba, Japan, August 2023
3. **S. Tsuchiya**, H. Wada, John A. Schlueter and Y. Toda  
 Title: Ultrafast pump-probe reflectivity study in the normal state of quarter-filled organic superconductor  
 International Conference on Quantum Liquid Crystals 2023, Sapporo, Japan, August 2023
4. Y. Wada, **S. Tsuchiya**, H. Taniguchi and Y. Toda  
 Title: Temperature dependence of photoinduced carrier dynamics in the charge glass candidate  $\theta$ -(BEDT-TTF)<sub>2</sub>CsCo(SCN)<sub>2</sub>”  
 International Conference on Quantum Liquid Crystals 2023, Sapporo, Japan, August 2023
5. **S. Tsuchiya**, K. Nagata, H. Taniguchi, Y. Toda  
 Title: Ultrafast optical spectroscopy in the normal state of organic superconductor  $\beta$ -(BEDT-TTF)<sub>2</sub>I<sub>3</sub>  
 29th International Conference on Low-temperature Physics, Sapporo, August 2022
6. **S. Tsuchiya**, T. Mertelj, D. Mihailovic, H. Taniguchi, Y. Toda  
 Title: Ultrafast destruction and recovery of the Mott state in  $\kappa$ -(BEDT-TTF)<sub>2</sub>Cu[N(CN)<sub>2</sub>]Cl studied by three-pulse pump probe spectroscopy  
 International Conference on Quantum Liquid Crystals 2021, Online, May 2021
7. K. Nakagawa, **S. Tsuchiya**, H. Taniguchi, Y. Toda  
 Title: Fluctuating Superconductivity in Partially Deuterated  $\kappa$ -(ET)<sub>2</sub>[N(CN)<sub>2</sub>]Br Studied by Polarized Time-Resolved Spectroscopy  
 12th International Symposium on Crystalline Organic Metals, Superconductors and Magnets, Miyagi, Japan, September 2017
8. T. Sato, **S. Tsuchiya**, J. Yamada, Y. Toda  
 Title: Effect of rapid cooling on photo-induced carrier dynamics in  $\kappa$ -(BEDT-TTF)<sub>2</sub>X (X = Cu[N(CN)<sub>2</sub>]Br and Cu(NCS)<sub>2</sub>)  
 12th International Symposium on Crystalline Organic Metals, Superconductors and Magnets, Miyagi, Japan, September 2017
9. R. Kuwae, **S. Tsuchiya**, T. Kodama, Y. Nakamura, M. Kurihara, T. Yamamoto, T. Naito, Y. Toda  
 Title: Electronic inhomogeneity in organic molecular compound  $\kappa$ -(BEDT-TTF)<sub>2</sub>Cu[N(CN)<sub>2</sub>]I probed by polarized femtosecond spectroscopy  
 12th International Symposium on Crystalline Organic Metals, Superconductors and Magnets, Miyagi, Japan, September 2017
10. **S. Tsuchiya**, T. Kodama, R. Kuwae, Y. Nakamura, M. Kurihara, T. Yamamoto, T. Naito, Y. Toda  
 Title: Photo-induced carrier dynamics in the organic superconductor  $\kappa$ -(BEDT-TTF)<sub>2</sub>Cu[N(CN)<sub>2</sub>]I  
 6th International Conference on Photoinduced Phase Transitions, Miyagi, Japan, June 2017
11. K. Nakagawa, **S. Tsuchiya**, H. Taniguchi, Y. Toda  
 Title: Photo-induced Carrier Relaxation Dynamics in Mott Insulator  $\kappa$ -(BEDT-TTF)<sub>2</sub>Cu[N(CN)<sub>2</sub>]Cl Probed by Probe Polarization  
 6th International Conference on Photoinduced Phase Transitions, Miyagi, Japan, June 2017
12. **S. Tsuchiya**, K. Nakagawa, J. Yamada, Y. Toda  
 Title: Photo-induced phase separation in metallic phase of the organic compound  $\kappa$ -(ET)<sub>2</sub>Cu(NCS)<sub>2</sub>

11th International Symposium on Crystalline Organic Metals, Superconductors and Magnets, Bad Gogging, Germany, September 2015

13. **S. Tsuchiya**, Y. Sugawara, S. Tanda, Y. Toda  
Title: Femtosecond pump-probe spectroscopy for a charge-density-wave system of DyTe<sub>3</sub> resolved by the probe polarization  
5th International Conference on Photoinduced Phase Transition and Cooperative Phenomena, Bled, Slovenia, June 2014
14. **S. Tsuchiya**, T. Mochiku, S. Ooi, K. Hirata, K. Sugii, T. Terashima, S. Uji  
Title: Magnetic torque study on fluctuating superconductivity for Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8+x</sub>  
The International Conference on Strongly Correlated Electron System, The University of Tokyo, Tokyo, Japan, August 2013
15. **S. Tsuchiya**, D. Fischer, K. Sugii, K. Miyagawa, K. Kanoda, H. Taniguchi, T. Terashima, and S. Uji  
Title: Systematic Studies of Fluctuating Superconductivity under In-plane Magnetic Field for  $\kappa$ - and  $\alpha$ -Type Organic Superconductors  
International Symposium on Material Science Opened by Molecular Degree of Freedom, Miyazaki, Japan, December 2012
16. **S. Tsuchiya**, J. Yamada, T. Terashima, K. Sugii, D. Graf, J. S. Brooks, and S. Uji  
Title: FFLO state in the Organic Superconductor  $\kappa$ -(BEDT-TTF)<sub>2</sub>Cu(NCS)<sub>2</sub> studied by Magnetic Torque  
International School and Symposium on Molecular Materials and Devices, Durham, UK, September 2012
17. **S. Tsuchiya**, J. Yamada, T. Terashima, N. Kurita, K. Kodama, K. Sugii, D. Graf, J. S. Brooks, and S. Uji  
Title: High-magnetic-field phase diagram of an organic superconductor  $\kappa$ -(BEDT-TTF)<sub>2</sub>Cu(NCS)<sub>2</sub>  
International Conference on Science and Technology of Synthetic Metals 2012, Atlanta, USA, July 2012
18. **S. Tsuchiya**, J. Yamada, T. Terashima, A. Harada, N. Kurita, K. Kodama, and S. Uji  
Title: Fluctuating Superconductivity under In-plane Magnetic Field in Two-Dimensional Organic Superconductor  
International School and Symposium on Multifunctional Molecule-based Materials, Argonne National Laboratory, Argonne, USA, March 2011
19. **S. Tsuchiya**, J. Yamada, T. Terashima, A. Harada, N. Kurita, K. Kodama, and S. Uji  
Title: Fluctuating Superconductivity in In-plane Magnetic Field for  $\kappa$ -(BEDT-TTF)<sub>2</sub>Cu(NCS)<sub>2</sub>  
Physical Phenomena at High Magnetic Fields VII, Tallahassee, USA, December 2010
20. **S. Tsuchiya**, J. Yamada, T. Terashima, A. Harada, N. Kurita, K. Kodama, and S. Uji  
Title: Two-Dimensional Superconductivity in  $\kappa$ -(BEDT-TTF)<sub>2</sub>Cu(NCS)<sub>2</sub>  
Satellite Workshop of ICSM2010, Kashiwa, Japan, July 2010
21. **S. Tsuchiya** and S. Tanda  
Title: Proximity Effect-induced Superconductivity in Pb-Au Bilayer Wire Networks  
International symposium on topological science and technology for young researchers 2009, Sapporo, Japan, March 2009
22. **S. Tsuchiya** and S. Tanda  
Title: Proximity Effect-Induced Superconducting Networks  
25th International Conference on Low Temperature Physics, Amsterdam, Netherlands, August 2008
23. **S. Tsuchiya**, T. Toshima, H. Nobukane, K. Inagaki, and S. Tanda  
Title: Little-Parks Oscillation in a Hierarchical Superconducting Network  
25th International Conference on Low Temperature Physics, Amsterdam, Netherlands, August 2008



24. **S. Tsuchiya**, T. Kikuchi, H. Takahashi, K. Inagaki, and S. Tanda  
 Title: Experimental study of two and three dimensional cuperconducting networks  
 The International Conference on Topology in Ordered Phases, Sapporo, Japan, March 2005

***Presentations at Domestic Meetings:***

(Displayed only the presentations that S.T. made a considerable contribution)

1. Y. Wada, **S. Tsuchiya**, H. Taniguchi, Y. Toda  
 Title: Study of charge glass in  $\theta$ -(BEDT-TTF)<sub>2</sub>CsCo(SCN)<sub>4</sub> by pump-probe spectroscopy with different probe polarizations  
 The 2024 Spring Meeting of JPS, Online, March 2024
2. Y. Wada, **S. Tsuchiya**, H. Taniguchi, Y. Toda  
 Title: Photoinduced carrier dynamics in charge glass of  $\theta$ -(BEDT-TTF)<sub>2</sub>CsCo(SCN)<sub>4</sub>  
 The 59th JSAP meeting of Hokkaido branch, Sapporo, January 2024
3. S. Ogami, Y. Toda, **S. Tsuchiya**, M. Oda, T. Kurosawa  
 Title: Photoinduced quasiparticle dynamics of pseudogap in high-temperature superconductor Bi2201  
 The 59th JSAP meeting of Hokkaido branch, Sapporo, January 2024
4. **S. Tsuchiya**, M. Katsumi, R. Oka, T. Naito, Y. Toda  
 Title: The origin of the resistivity increase at low temperatures in the organic Dirac electron system  $\alpha$ -(BETS)<sub>2</sub>I<sub>3</sub> probed by pump-probe spectroscopy  
 The 78th Annual Meeting of JPS, Sendai, September 2023
5. M. Katsumi, **S. Tsuchiya**, R. Oka, T. Naito, Y. Toda  
 Title: Photoinduced carrier dynamics in Dirac fermion system of organic molecular conductor  $\alpha$ -(BETS)<sub>2</sub>I<sub>3</sub>  
 The 58th JSAP meeting of Hokkaido branch, Muroran, January 2023
6. **S. Tsuchiya**, N. Kanai, R. Oka, T. Naito, Y. Toda  
 Title: A ground state in the organic Dirac electron system  $\alpha$ -(STF)<sub>2</sub>I<sub>3</sub> studied by a pump probe spectroscopy  
 The 2022 Autumn Meeting of JPS, Tokyo institute of technology, Tokyo, September 2022
7. T. Akiba, **S. Tsuchiya**, Y. Toda, T. Kurosawa, M. Oda  
 Title: Coherent quench spectroscopy in high-Tc cuprate superconductor Bi2201  
 The 69th JSAP spring meeting 2022, Online, March 2022
8. **S. Tsuchiya**, K. Nakagawa, H. Taniguchi, Y. Toda  
 Title: Ultrafast pump probe reflectivity study of the glassy electronic state in organic conductor  $\theta$ -(BEDT-TTF)<sub>2</sub>CsZn(SCN)<sub>2</sub>  
 FYR03 QLC, Online, February 2022
9. K. Nagata, **S. Tsuchiya**, H. Taniguchi, Y. Toda  
 Title: Photoinduced phase separation with coherent phonon oscillation in organic conductor  $\beta$ -(BEDT-TTF)<sub>2</sub>I<sub>3</sub>  
 FYR03 QLC, Online, February 2022
10. K. Nagata, **S. Tsuchiya**, H. Taniguchi, Y. Toda  
 Title: Investigation of photo-induced metallic-insulating phase separation in the organic conductor  $\beta$ -(BEDT-TTF)<sub>2</sub>I<sub>3</sub>  
 The 57th JSAP meeting of Hokkaido branch, Online, January 2022
11. T. Akiba, **S. Tsuchiya**, Y. Toda, T. Kurosawa, M. Oda, T. Mertelj, D. Mihailovic  
 Title: Photoinduced quasiparticle dynamics in the narrow gap high-Tc cuprate Bi2201  
 The 57th JSAP meeting of Hokkaido branch, Online, January 2022
12. T. Akiba, **S. Tsuchiya**, Y. Toda, T. Kurosawa, M. Oda, T. Mertelj, D. Mihailovic  
 Title: Photoinduced quasiparticle dynamics in Bi-based cuprates with disorder  
 The 2021 Autumn Meeting of JPS, Online, September 2021

13. K. Nagata, **S. Tsuchiya**, H. Taniguchi, Y. Toda  
 Title: Temperature dependence of photoinduced carrier dynamics in organic superconductor  $\beta$ -(BEDT-TTF)<sub>2</sub>I<sub>3</sub>  
 The 76th Annual Meeting of JPS, Online, March 2021
14. **S. Tsuchiya**, T. Akiba, H. Nakamura, M. Sakoda, S. Tanda, Y. Toda  
 Title: Electronic properties of parent compounds of cuprate superconductors Nd<sub>2</sub>CuO<sub>4</sub> studied by an optical pump probe spectroscopy  
 The 2020 Autumn Meeting of JPS, Kumamoto University, Online, September 2020
15. **S. Tsuchiya**, T. Mertelj, D. Mihailovic, H. Taniguchi, J. Yamada, Y. Toda  
 Title: Formation of the Mott insulating state under non-equilibrium conditions in organic molecular crystal studied by three-pulse pump probe spectroscopy  
 The 75th Annual Meeting of JPS, Nagoya University, Aichi, March 2020
16. **S. Tsuchiya**, R. Kuwae, T. Kodama Y. Toda, Y. Nakamura, M. Kurihara, T. Yamamoto, T. Naito  
 Title: Electronic inhomogeneity in  $\kappa$ -(BEDT-TTF)<sub>2</sub>Cu[N(CN)<sub>2</sub>]I probed by optical time-resolved spectroscopy  
 The 2019 Autumn Meeting of JPS, Gifu University, Gifu, September 2019
17. K. Nakagawa, **S. Tsuchiya**, H. Taniguchi, Y. Toda  
 Title: Temperature dependence of photo-induced carrier dynamics in  $\theta$ -(ET)<sub>2</sub>MZn(SCN)<sub>4</sub>(M=Rb, Cs)  
 The 2019 Autumn Meeting of JPS, Gifu University, Gifu, September 2019
18. K. Nakagawa, T. Sato, **S. Tsuchiya**, J. Yamada, Y. Toda  
 Title: Spectrally resolved anomalous nonequilibrium polarization dynamics above T<sub>c</sub> in  $\kappa$ -type organic superconductors  
 The 2019 Autumn Meeting of JPS, Gifu University, Gifu, September 2019
19. **S. Tsuchiya**, T. Mertelj, D. Mihailovic, J. Yamada, Y. Toda  
 Title: Spectrally resolved pump-probe spectroscopy in the superconducting state of  $\kappa$ -(BEDT-TTF)<sub>2</sub>Cu[N(CN)<sub>2</sub>]Br  
 The 74th Annual Meeting of JPS, Kyushu University, Fukuoka, March 2019
20. **S. Tsuchiya**, D. Nakagawa, Y. Toda  
 Title: Development of ultrafast spectroscopy measurement system under hydrostatic and uniaxial pressure using piston-cylinder type cell and optical fiber bundle  
 The 59th High Pressure Conference of Japan, Okayama University of Science, Okayama, November 2018
21. **S. Tsuchiya**, D. Nakagawa, Y. Toda  
 Title: Development of pump probe measurement system under uniaxial pressure  
 The 2018 Autumn Meeting of JPS, Doshisha University, Kyoto, September 2018
22. **S. Tsuchiya**, K. Nakagawa, H. Taniguchi, Y. Toda  
 Title: Effects of molecular ordering on photoinduced carrier dynamics in  $\kappa$ -(BEDT-TTF)<sub>2</sub>Cu[N(CN)<sub>2</sub>]Cl  
 The 2018 Autumn Meeting of JPS, Doshisha University, Kyoto, September 2018
23. K. Nakagawa, **S. Tsuchiya**, H. Taniguchi, Y. Toda  
 Title: Temperature dependence of photoinduced carrier dynamics in organic superconductor  $\kappa$ -(ET)<sub>2</sub>Cu[N(CN)<sub>2</sub>]Br partially substituted by deuterated donors  
 The 73th Annual Meeting of JPS, Tokyo University of Science, Chiba, March 2018
24. K. Nakagawa, **S. Tsuchiya**, H. Taniguchi, Y. Toda  
 Title: Exploration of fluctuating superconductivity in organic superconductors near the Mott phase boundary  
 The 53th JSAP meeting of Hokkaido branch, Hokkaido University, Sapporo, January 2018

25. D. Nakagawa, **S. Tsuchiya**, Y. Toda  
 Title: Development of optical time-resolved spectroscopy system with a piston-cylinder cell and optical fiber bundle for measurements under uniaxial pressure  
 The 53th JSAP meeting of Hokkaido branch, Hokkaido University, Sapporo, January 2018
26. T. Sato, **S. Tsuchiya**, J. Yamada, Y. Toda  
 Title: Photoexcited quasi-particle dynamics in organic superconductors with a rapid cooling  
 The 53th JSAP meeting of Hokkaido branch, Hokkaido University, Sapporo, January 2018
27. **S. Tsuchiya**, T. Kodama, Y. Nakamura, T. Yamamoto, T. Naito, Y. Toda  
 Title: Pump-probe time-resolved spectroscopy in  $\kappa$ -(ET)<sub>2</sub>Cu[N(CN)<sub>2</sub>]I  
 The 2016 Autumn Meeting of JPS, Kanazawa University, Ishikawa, September 2016
28. K. Nakagawa, **S. Tsuchiya**, J. Yamada, Y. Toda  
 Title: Fluctuating Superconductivity in  $\kappa$ -(BEDT-TTF)<sub>2</sub>X (X=Cu[N(CN)<sub>2</sub>]Br, Cu(NCS)<sub>2</sub>)  
 Observed by Polarized Femtosecond Spectroscopy  
 The 2016 Autumn Meeting of JPS, Kanazawa University, Ishikawa, September 2016
29. K. Nakagawa, **S. Tsuchiya**, J. Yamada, Y. Toda  
 Title: Temperature Dependence of Photoinduced Quasiparticle Relaxation Dynamics in Organic Superconductors  $\kappa$ -(BEDT-TTF)<sub>2</sub>X (X=Cu[N(CN)<sub>2</sub>]Br, Cu(NCS)<sub>2</sub>)  
 The 50th JSAP meeting of Hokkaido branch, Hokkaido University, Sapporo, January 2016
30. **S. Tsuchiya**, Y. Kino, K. Nakagawa, J. Yamada, Y. Toda  
 Title: Time-resolved spectroscopy under high pressure and low temperature demonstrated with a piston-cylinder pressure cell  
 The 2015 Autumn Meeting of JPS, Kansai University, Osaka, September 2015
31. **S. Tsuchiya**, K. Nakagawa, J. Yamada, Y. Toda  
 Title: Time-resolved pump-probe spectroscopy in  $\kappa$ -(ET)<sub>2</sub>Cu(NCS)<sub>2</sub>  
 The 70th Annual Meeting of JPS, Waseda University, Tokyo, March 2015
32. **S. Tsuchiya**, Y. Sugawara, S. Tanda, Y. Toda  
 Title: Probe-polarization dependence of photo-induced quasi particle dynamics in the two-dimensional layered compound DyTe<sub>3</sub>  
 The 2014 Autumn Meeting of JPS, Chubu University, Aichi, September 2014
33. **S. Tsuchiya**, K. Yamaya, S. Takayanagi, S. Tanda, K. Matsubayashi, Y. Uwatoko  
 Title: Pressure and magnetic field effect on the mixed bulk-filament superconductivity in ZrTe<sub>3</sub>  
 The 69th Annual Meeting of JPS, Tokai University, Kanagawa, March 2014
34. **S. Tsuchiya**, D. Fischer, K. Sugii, K. Miyagawa, K. Kanoda, H. Taniguchi, T. Terashima, and S. Uji  
 Title: Studies of fluctuating superconductivity for the organic superconductor  $\alpha$ -(ET)<sub>2</sub>NH<sub>4</sub>Hg(SCN)<sub>4</sub>  
 The 68th Annual Meeting of JPS, Hiroshima University, Hiroshima, March 2013
35. **S. Tsuchiya**, T. Mochiku, S. Ooi, K. Hirata, T. Terashima, K. Sugii, S. Uji  
 Title: In-plane magnetic field effect on fluctuating superconductivity in Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8+x</sub>  
 The Autumn Meeting of JPS, Yokohama National University, Kanagawa, September 2012
36. **S. Tsuchiya**, J. Yamada, T. Terashima, N. Kurita, K. Kodama, K. Sugii, D. Graf, J. S. Brooks, and S. Uji  
 Title: Magnetic torque measurement in high magnetic fields for  $\kappa$ -(BEDT-TTF)<sub>2</sub>Cu(NCS)<sub>2</sub>  
 The 67th Annual Meeting of JPS, Kanseigakuin University, Hyogo, March 2012

37. **S. Tsuchiya**, J. Yamada, T. Terashima, A. Harada, N. Kurita, K. Kodama, and S. Uji  
 Title: In-plane magnetic field effect on fluctuating superconductivity in  $\kappa$ -(BEDT-TTF)<sub>2</sub>X (X = Cu(NCS)<sub>2</sub> and Cu[N(CN)<sub>2</sub>]Br)  
 The 6th Frontier Meeting, Hotel Iwanumaya, Miyagi, January 2012
38. **S. Tsuchiya**, J. Yamada, T. Terashima, A. Harada, N. Kurita, K. Kodama, and S. Uji  
 Title: Electron correlation effect on fluctuating superconductivity under in-plane magnetic field in organic superconductors  
 The Autumn Meeting of JPS, Toyama University, Toyama, September 2011
39. **S. Tsuchiya**, J. Yamada, T. Terashima, A. Harada, N. Kurita, K. Kodama, and S. Uji  
 Title: Effects of the in-plane magnetic field on fluctuating superconductivity for  $\kappa$ -(BEDT-TTF)<sub>2</sub>Cu[N(CN)<sub>2</sub>]Br  
 The 5th Frontier Meeting, University of Tokyo, Tokyo, June 2011
40. **S. Tsuchiya**, J. Yamada, T. Terashima, A. Harada, N. Kurita, K. Kodama, and S. Uji  
 Title: Fluctuating superconductivity under the in-plane magnetic field in two-dimensional organic superconductors  
 The 66th Annual Meeting of JPS, Niigata University, Niigata, March 2011
41. **S. Tsuchiya**, J. Yamada, T. Terashima, A. Harada, N. Kurita, K. Kodama, and S. Uji  
 Title: Effects of the in-plane magnetic field on superconducting fluctuation for  $\kappa$ -(BEDT-TTF)<sub>2</sub>Cu(NCS)<sub>2</sub>  
 The 4th Frontier Meeting, University of Tokyo, Tokyo, January 2011
42. **S. Tsuchiya**, J. Yamada, T. Terashima, A. Harada, N. Kurita, K. Kodama, and S. Uji  
 Title: Effects of the in-plane magnetic field on superconducting fluctuation in two-dimensional organic superconductors  
 The A03 Group Meeting, Hakone Yumoto Hotel, Kanagawa, November 2010
43. **S. Tsuchiya**, J. Yamada, T. Terashima, A. Harada, N. Kurita, K. Kodama, and S. Uji  
 Title: Anisotropic superconductivity in  $\kappa$ -(BEDT-TTF)<sub>2</sub>Cu(NCS)<sub>2</sub>  
 The Autumn Meeting of JPS, Osaka Prefecture University, Osaka, September 2010
44. **S. Tsuchiya**, T. Toshima, H. Nobukane, K. Inagaki, K. Ichimura, and S. Tanda  
 Title: Breaking of duality of vortex configuration in hierarchical superconducting networks  
 The 65th Annual Meeting of JPS, Okayama University, Okayama, March 2010
45. **S. Tsuchiya**, H. Nobukane, T. Toshima, K. Konno, K. Inagaki, and S. Tanda  
 Title: Little-Parks oscillation in hierarchical superconducting networks  
 The 64th Annual Meeting of JPS, Kinki University, Osaka, March 2009
46. **S. Tsuchiya**, H. Nobukane, T. Toshima, K. Inagaki, and S. Tanda  
 Title: Property of superconducting hierarchical networks in a magnetic field  
 The Autumn Meeting of JPS, Chiba University, Chiba, September 2006

***Received External Grants:***

1. April 2022 - March 2025: Scientific Research (B) (No. 22H01162) from the Japan Society for the Promotion of Science (JSPS)  
 Title: Exploration of dynamic inhomogeneity of charge-glass transition by 3-pulse femtosecond time-resolved spectroscopy
2. April 2022 - March 2023: Iketani Science and Technology Foundation (Single-year research grant)  
 Title: Development of ultra-fast electrical conduction conversion organic materials by light.

3. April 2019 - March 2022: Scientific Research (C) (No. 19K03706) from the Japan Society for the Promotion of Science (JSPS)  
Title: Observation of charge glass formation dynamics by femtosecond optical excitation and investigation of momentum space structure
4. June 2018: Research found from the JCG-S Scholarship Foundation, Single-year research grant  
Title: Study of low power memory device using organic molecular crystal and ultrafast optical pulse laser
5. June 2016: Support for traveling overseas from the Murata Science Foundation  
Title: Quasiparticle dynamics in the organic superconductors investigated with polarized femtosecond spectroscopy
6. 2015: Research support received from HOKKAIDO GAS CO., LTD  
Title: Fundamental research for electronic lead-less pressure sensor with organic conductors
7. April 2015 - March 2018: Young Scientists (B) (No. 15K17685) from the Japan Society for the Promotion of Science (JSPS)  
Title: Research for pseudogap in organic superconductors by pump-probe time-resolved spectroscopy
8. April 2014 - March 2015: Toyota Physical and Chemical Research Institute Scholars  
Title: Development of Pump-Probe measurement technique under pressure toward understanding of the pseudo-gap phenomena in high- $T_c$  superconductors
9. April 2012 - March 2014: Young Scientists (B) (No. 24740246) from the Japan Society for the Promotion of Science (JSPS)  
Title: Anisotropic magnetic field effect on fluctuating superconductivity in a strongly correlated electron system

***Received internal Grants:***

1. 2017: Fund of overseas research program of faculty of engineering in Hokkaido University  
Place: Jozef Stefan Institute, Slovenia
2. August 2015: Support for English proofreading in faculty of engineering of Hokkaido university  
Title: Symmetry-dependent carrier relaxation dynamics and charge-density-wave transition in DyTe<sub>3</sub> probed by polarized femtosecond spectroscopy
3. 2015: Grant of traveling overseas for young researchers in faculty of engineering in Hokkaido university  
Title: Photo-induced quasi particle dynamics in the organic superconductor  $\kappa$ -(ET)<sub>2</sub>Cu(NCS)<sub>2</sub>

***Seminar:***

1. Jun. 22, 2018: Department seminar at Jozef Stefan Institute, Slovenia  
Title: Spectrally-resolved and three-pulse pump probe spectroscopy in strongly correlated organic conductors: Measurement results in my visit
2. Sep. 21, 2017: Department seminar at Jozef Stefan Institute, Slovenia  
Title: Photoinduced carrier dynamics in organic superconducting system: Previous results and Recent progress
3. Sep. 4, 2015: Department seminar at Jozef Stefan Institute, Slovenia  
Title: Femtosecond pump-probe spectroscopy for organic superconductors resolved by the probe polarization
4. Feb. 14, 2014: Seminar at Laboratory of electronic properties of low-dimensional conductors, Hokkaido University  
Title: Fluctuating superconductivity in strongly correlated two-dimensional organic superconductors

5. Aug. 31, 2012: 174th Enreiso Meeting, Hokkaido University  
Title: In-plane magnetic field effect on fluctuating superconductivity in two-dimensional organic superconductors

***Academic activities:***

- Apr. 2022 - present: The Physical Society of Japan Hokkaido Branch, Organizing committee (Accountant)
- Apr. 2020 - Mar. 2021: The Physical Society of Japan, Division 7 organizing committee
- 2019: Local Organizing Committee, The 60th High Pressure Conference of Japan

***Lecture:***

- 2023: Student experiment I, II,
- 2022: Student experiment I, Special Lectures on Topological Science and Technology
- 2021: Student experiment I
- 2020: Student experiment I, Special Lectures on Topological Science and Technology
- 2019: Student experiment I, II
- 2018: Student experiment I, Special Lectures on Topological Science and Technology
- 2017: Student experiment II
- 2016: Student experiment I, II
- 2015: Student experiment I, II, Special Lectures on Topological Science and Technology
- 2014: Student experiment I, II, Special Lectures on Topological Science and Technology
- 2013: Student experiment I