

Terumasa TADANO (只野央将)

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PERSONAL DATA

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RESEARCH INTERESTS

- Anharmonicity
- Thermal transport
- Thermoelectrics
- Electron-phonon interaction
- Permanent magnets
- Perovskites
- Methodology development
- Numerical algorithms

EDUCATION

MARCH 2013 Ph.D., Department of Physics, University of Tokyo, Japan
Advisor: Prof. Shinji TSUNEYUKI

MARCH 2010 M.Sc., Department of Physics, University of Tokyo, Japan
Advisor: Prof. Shinji TSUNEYUKI

MARCH 2008 B.Sc., Department of Physics, Keio University, Japan

EMPLOYMENT

APR 2024– | Group Leader, NIMS, Japan

APR 2021– MAR 2024 | Senior Researcher, NIMS, Japan

APR 2019– MAR 2021 | Researcher, NIMS, Japan

JAN 2017– MAR 2019 | ICYS fellow, NIMS, Japan

OCT 2016– | Postdoctoral researcher,
DEC 2016 | National Institute for Materials Science (NIMS), Japan

APR 2015– | Postdoctoral researcher, Department of Applied Physics,
SEP 2016 | University of Tokyo, Japan (Advisor: Prof. Masatoshi IMADA)

APR 2013– | Postdoctoral researcher, Department of Physics,
MAR 2015 | University of Tokyo, Japan (Advisor: Prof. Shinji TSUNEYUKI)

AWARDS

MAY 2024	HPCI Software Award for Excellence (First Prize) in the Development Category
APR 2024	The Young Scientists' Award by MEXT
NOV 2021	Condensed-Matter Science Prize (Theory division)
MAR 2019	Young Scientist Award of the Physical Society of Japan
NOV 2018	Best Presentation Award at the 38th Electronics division meeting of CerSJ
SEP 2017	ECT2017 Poster Award
AUG 2014	CSW2014 Young Investigator Award

GRANTS

APR 2024–MAR 2027	Grant-in-Aid for Scientific Research (A), MEXT, Japan (Co-investigator, PI : Prof. Arita)
OCT 2023–MAR 2027	PRESTO, JST, MEXT, Japan
APR 2023–MAR 2026	Grant-in-Aid for Scientific Research (A), MEXT, Japan (Co-investigator, PI : Prof. Chiba)
APR 2021–MAR 2024	Grant-in-Aid for Scientific Research (C), MEXT, Japan
APR 2020–MAR 2023	Grant-in-Aid for Scientific Research (B), MEXT, Japan (PI: Dr. Miura)
OCT 2019–MAR 2022	Elements Strategy Initiative Center for Magnetic Materials (ESICMM), MEXT, Japan
MAY 2016–MAR 2021	Grant-in-Aid for Scientific Research (S), MEXT, Japan (PI: Prof. Imada)
JAN 2017–MAR 2019	NIMS ICYS Research Grant (Internal grant)
APR 2016–MAR 2019	Grant-in-Aid for Encouragement of Young Scientists (B), MEXT, Japan

COMPUTER SKILLS

Basic Knowledge:	HTML, LINUX, \LaTeX
Intermediate Knowledge:	C++, Fortran, Python, MPI, OpenMP

PAPERS

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1. M. Hirayama, M. T. Schmid, **T. Tadano**, T. Misawa, and M. Imada, “*Ab initio material design of Ag-based oxides for high- T_c superconductor*”, arXiv:2207.12595.
 2. R. Matsumoto, K. Yamane, **T. Tadano**, K. Terashima, T. Shinmei, T. Irifune, and Y. Takano, Chem. Mater. (2025).
 3. P. Wisesa, **T. Tadano**, and W. A. Saidi, Comput. Mater. Sci. **250**, 113719 (2025).
 4. M. Hiramatsu, Z. Hu, S. Yoshikawa, Z. Yang, X. He, T. Katase, J. Yamaura, H. Sagayama, **T. Tadano**, S. Ueda, H. Hiramatsu, H. Hosono, T. Kamiya, “*Nonequilibrium Layered PbS Stabilized by Sn Doping: Bipolar Semiconductors with Low Thermal Conductivity*”, ACS Appl. Electron. Mater. **6**, 8339 (2024).
 5. R. Masuki, T. Nomoto, R. Arita, and **T. Tadano**, “*Continuous crossover between insulating ferroelectrics and the polar metals: Ab initio calculation of structural phase transitions of LiBO_3 ($B = \text{Ta}, \text{W}, \text{Re}, \text{Os}$)*”, Phys. Rev. B **110**, 094102 (2024).
 6. N. Abe, Y. Hano, H. Ishizuka, Y. Kozuka, **T. Tadano**, Y. Tsujimoto, K. Yamaura, S. Ishiwata, and J. Fujioka, “*Large anomalous Hall effect in spin fluctuating devil’s staircase*”, npj Quantum Mater. **9**, 41 (2024).
 7. G. Xing, K. Masuda, **T. Tadano**, and Y. Miura, “*Chemical-substitution-driven giant anomalous Hall and Nernst effects in magnetic cubic Heusler compounds*”, Acta. Mater. **270**, 119856 (2024).
 8. M. Basini, M. Pancaldi, B. Wehinger, M. Udina, **T. Tadano**, M. C. Hoffmann, A. V. Balatsky, and S. Bonetti, “*Terahertz electric-field driven dynamical multiferroicity in SrTiO_3* ”, Nature **628**, pages 534–539 (2024).
 9. J. Yue, Y. Liu, W. Ren, S. Lin, C. Shen, H. K. Singh, T. Cui, **T. Tadano**, H. Zhang, “Role of

atypical temperature-responsive lattice thermal transport on the thermoelectric properties of antiperovskites Mg_3XN ($X = \text{P, As, Sb, Bi}$)”, *Mater. Today Phys.* **41**, 101340 (2024).

10. Y. Kozuka, T. T. Sasaki, **T. Tadano**, J. Fujioka, “Epitaxy and transport properties of alkali-earth palladate thin films”, *Sci. Tech. Adv. Mater.* **24**, 2265431 (2023).
11. X. He, S. Kimura, T. Katase, **T. Tadano**, S. Matsuishi, M. Minohara, H. Hiramatsu, H. Kumigashira, H. Hosono, T. Kamiya, “Inverse-Perovskite Ba_3BO ($B = \text{Si}$ and Ge) as a High Performance Environmentally Benign Thermoelectric Material with Low Lattice Thermal Conductivity”, *Adv. Sci.* **2307058** (2023).
12. M. Morishita, T. Abe, T. Ohkubo, **T. Tadano**, H. Yamamoto, A. Nozaki, H. Miyazaki, “Magnetic characterization of $\text{Sm}(\text{Fe}_{1-x}\text{Co}_x)_{11}\text{Ti}$ ($x = 0, 0.1$) determined by heat-capacity measurement from very low to high temperatures”, *Thermochimica Acta.* **727**, 179573 (2023).
13. I. Kurniawan, Y. Miura, G. Xing, **T. Tadano**, K. Hono, “Theoretical study of the effect of lattice dynamics on the damping constant of FePt at finite temperature”, *Phys. Rev. B.* **108**, 094426 (2023).
14. K. Kazama, M. Sakano, K. Yamagami, T. Ohkuchi, K. Ishizaka, **T. Tadano**, Y. Kozuka, H. Yoshizawa, Y. Tsujimoto, K. Yamaura, J. Fujioka, “Charge transport and thermopower in the electron-doped narrow gap semiconductor $\text{Ca}_{1-x}\text{La}_x\text{Pd}_3\text{O}_4$ ”, *Phys. Rev. Mater.* **7**, 085402 (2023).
15. G. Xing, Y. Miura, and **T. Tadano**, “First-principles prediction of phase transition of YCo_5 from self-consistent phonon calculations”, *Phys. Rev. B* **108**, 014304 (2023).
16. E. Frasson, P. Rosander, F. Eriksson, M. Rahm, **T. Tadano**, P. Erhart, “Limits of the phonon quasi-particle picture at the cubic-to-tetragonal phase transition in halide perovskites”, *Commun. Phys.* **6**, 173 (2023).
17. D. B. Khadka, Y. Shirai, M. Yanagida, **T. Tadano**, and K. Miyano, “Alleviating Defect and Oxidation in Tin Perovskite Solar Cells Using a Bidentate Ligand”, *Chem. Mater.* **35**, 4250 (2023).
18. A. Togo, L. Chaput, **T. Tadano**, I. Tanaka, “Implementation strategies in phonopy and phono3py”, *J. Phys.: Condens. Matter* **35**, 353001 (2023).
19. C. Shen, M. Dai, X. Xiao, N. Hadaeghi, W. Xie, A. Weidenkaff, **T. Tadano**, H. Zhang, “Impact of Quartic Anharmonicity on Lattice Thermal Transport in EuTiO_3 : A Comparative Theoretical and Experimental Investigation”, *Mater. Today Phys.* **34**, 101059 (2023).
20. R. Masuki, T. Nomoto, R. Arita, and **T. Tadano**, “Full optimization of quasi-harmonic free energy with an anharmonic lattice model: Application to thermal expansion and pyroelectricity of wurtzite GaN and ZnO ”, *Phys. Rev. B* **107**, 134119 (2023).
21. X. He, S. Nomoto, T. Komatsu, T. Katase, **T. Tadano**, S. Kitani, H. Yoshida, T. Yamamoto, H. Mizoguchi, K. Ide, H. Hiramatsu, H. Kawaji, H. Hosono, T. Kamiya, “Hydride Anion Substitution Boosts Thermoelectric Performance of Polycrystalline SrTiO_3 via Simultaneous Realization of Reduced Thermal Conductivity and High Electronic Conductivity”, *Adv. Func. Mater.* **2213144** (2023).
22. T. Amano, T. Yamazaki, R. Akashi, **T. Tadano**, S. Tsuneyuki, “Lattice dielectric properties of rutile TiO_2 : First-principles anharmonic self-consistent phonon study”, *Phys. Rev. B* **107**, 094305 (2023).
23. Z. Hu, M. Hiramatsu, X. He, T. Katase, **T. Tadano**, K. Ide, H. Hiramatsu, H. Hosono, T. Kamiya, “Reversible Thermal Conductivity Modulation of Non-equilibrium $(\text{Sn}_{1-x}\text{Pb}_x)\text{S}$ by 2D–3D Structural Phase Transition above Room Temperature”, *ACS Appl. Energy Mater.* **6**, 3504 (2023).

24. R. Masuki, T. Nomoto, R. Arita, and **T. Tadano**, “*Ab initio structural optimization at finite temperatures based on anharmonic phonon theory: Application to the structural phase transitions of BaTiO₃*”, *Phys. Rev. B* **106**, 224104 (2022).
25. **T. Tadano** and W. A. Saidi, “*First-Principles Phonon Quasiparticle Theory Applied to a Strongly Anharmonic Halide Perovskite*”, *Phys. Rev. Lett.* **129**, 185901 (2022).
26. K. Cho, H. Tahara, T. Yamada, H. Suzuura, **T. Tadano**, R. Sato, M. Saruyama, H. Hirori, T. Teranishi, and Y. Kanemitsu, “*Exciton–Phonon and Trion–Phonon Couplings Revealed by Photoluminescence Spectroscopy of Single CsPbBr₃ Perovskite Nanocrystals*”, *Nano Lett.* **22**, 7674 (2022).
27. D. B. Khadka, Y. Shirai, M. Yanagida, **T. Tadano**, and K. Miyano, “*Interfacial Embedding for High-Efficiency and Stable Methylammonium-Free Perovskite Solar Cells with Fluoroarene Hydrazine*”, *Adv. Energy Mater.* **2202029** (2022).
28. M. Ohnishi, **T. Tadano**, S. Tsuneyuki, and J. Shiomi, “*Anharmonic phonon renormalization and thermal transport in the type-I Ba₈Ga₁₆Sn₃₀ clathrate from first principles*”, *Phys. Rev. B* **106**, 024303 (2022).
29. A. Togo, H. Hayashi, **T. Tadano**, S. Tsutsui, and I. Tanaka, “*LO-mode phonon of KCl and NaCl at 300 K by inelastic X ray scattering measurements and first principles calculations*”, *J. Phys.: Condens. Matter* **34**, 365401 (2022).
30. Y. Nishimura, X. He, T. Katase, **T. Tadano**, K. Ide, S. Kitani, K. Hanzawa, S. Ueda, H. Hiramatsu, H. Kawaji, H. Hosono, and T. Kamiya, “*Electronic and Lattice Thermal Conductivity Switching by 3D–2D Crystal Structure Transition in Nonequilibrium (Pb_{1–x}Sn_x)Se*”, *Adv. Electron. Mater.* **2200024** (2022).
31. G. Xing, Y. Miura, and **T. Tadano**, “*Lattice dynamics and its effects on magnetocrystalline anisotropy energy of pristine and hole-doped YCo₅ from first principles*”, *Phys. Rev. B* **105**, 104427 (2022).
32. X. He, H. Zhang, T. Nose, T. Katase, **T. Tadano**, K. Ide, S. Ueda, H. Hiramatsu, H. Hosono, T. Kamiya, “*Degenerated Hole Doping and Ultra-Low Lattice Thermal Conductivity in Polycrystalline SnSe by Nonequilibrium Isovalent Te Substitution*”, *Adv. Sci.* **2105958** (2022).
33. R. Masuki, T. Nomoto, R. Arita, and **T. Tadano**, “*Anharmonic Grüneisen theory based on self-consistent phonon theory: Impact of phonon-phonon interaction neglected in the quasi-harmonic theory*”, *Phys. Rev. B* **105**, 064112 (2022).
34. P. Torres, S. Wu, S. Ju, C. Liu, **T. Tadano**, R. Yoshida, and J. Shiomi, “*Descriptors of intrinsic hydrodynamic thermal transport: screening a phonon database in a machine learning approach*”, *J. Phys.: Condens. Matter* **34**, 135702 (2022).
35. K. Masuda, **T. Tadano**, and Y. Miura, “*Crucial role of interfacial s-d exchange interaction in the temperature dependence of tunnel magnetoresistance*”, *Phys. Rev. B* **104**, L180403 (2021).
36. K. Ishioka, **T. Tadano**, M. Yanagida, Y. Shirai, K. Miyano, “*Anharmonic Organic Cation Vibrations in Hybrid Lead Halide Perovskite CH₃NH₃PbI₃*”, *Phys. Rev. Materials* **5**, 105402 (2021).
37. M. Kimura, X. He, T. Katase, **T. Tadano**, J. M. Tomczak, M. Minohara, R. Aso, H. Yoshida, K. Ide, S. Ueda, H. Hiramatsu, H. Kumigashira, H. Hosono, and T. Kamiya, “*Large phonon drag thermopower boosted by massive electrons and phonon leaking in LaAlO₃/LaNiO₃/LaAlO₃ heterostructure*”, *Nano Lett.* **21**, 9240–9246 (2021).
38. T. Katase, X. He, **T. Tadano**, J. M. Tomczak, T. Onozato, K. Ide, B. Feng, T. Tohei, H. Hiramatsu, H. Ohta, Y. Ikuhara, H. Hosono, and T. Kamiya, “*Breaking of thermopower – conductivity trade-off in LaTiO₃ film around Mott insulator to metal transition*”, *Adv. Sci.* **2102097** (2021).

39. M. Charlebois, J. Morée, K. Nakamura, Y. Nomura, **T. Tadano**, Y. Yoshimoto, Y. Yamaji, T. Hasegawa, K. Matsuhira, M. Imada, “*Ab initio Derivation of Low-Energy Hamiltonians for Systems with Strong Spin-Orbit Interaction and Its Application to $\text{Ca}_5\text{Ir}_3\text{O}_{12}$* ”, Phys. Rev. B **104**, 075153 (2021).
40. K. Cho, T. Yamada, H. Tahara, **T. Tadano**, H. Suzuura, M. Saruyama, R. Sato, T. Teranishi, and Y. Kanemitsu, “*Luminescence Fine Structures in Single Lead Halide Perovskite Nanocrystals: Size Dependence of the Exciton–Phonon Coupling*”, Nano Lett. **21**, 7206–7212 (2021).
41. T. Ishikawa, T. Fukazawa, G. Xing, **T. Tadano**, and Takashi Miyake, “*Evolutionary search for cobalt-rich compounds in the yttrium-cobalt-boron system*”, Phys. Rev. Materials **5**, 054408 (2021).
42. G. Xing, T. Ishikawa, Y. Miura, T. Miyake, and **T. Tadano**, “*Lattice dynamics effects on finite-temperature stability of $R_{1-x}\text{Fe}_x$ ($R = \text{Y, Ce, Nd, Sm, and Dy}$) alloys from first principles*”, J. Alloys Compd. **874**, 159754 (2021).
43. S. Ju, R. Yoshida, C. Liu, K. Hongo, **T. Tadano**, J. Shiomi, “*Exploring diamond-like lattice thermal conductivity crystals via feature-based transfer learning*”, Phys. Rev. Materials **5**, 053801 (2021).
44. T. Katase, Y. Takahashi, X. He, **T. Tadano**, K. Ide, H. Yoshida, S. Kawachi, J. Yamaura, M. Sasase, H. Hiramatsu, H. Hosono, and T. Kamiya, “*Reversible 3D-2D Structural Phase Transition and Giant Electronic Modulation in Nonequilibrium Alloy Semiconductor, Lead-Tin-Selenide*”, Sci. Adv. **7**, eabf2725 (2021).
45. S. Kawano, **T. Tadano**, and S. Iikubo, “*Effect of Halogen Ions on the Low Thermal Conductivity of Cesium Halide Perovskite*”, J. Phys. Chem. C **125**, 91-97 (2021).
46. K. Nakamura, Y. Yoshimoto, Y. Nomura, **T. Tadano**, M. Kawamura, T. Kosugi, K. Yoshimi, T. Misawa, and Y. Motoyama, “*RESPACK: An ab initio tool for derivation of effective low-energy model of material*”, Comput. Phys. Commun. **261**, 107781 (2021).
47. Z. Zeng, S. Li, **T. Tadano**, and Y. Chen, “*Anharmonic lattice dynamics and thermal transport of monolayer InSe under equibiaxial tensile strains*”, J. Phys.: Condens. Mater **32**, 475702 (2020).
48. Y. Wu, W. Saidi, J. Wuenschell, **T. Tadano**, P. Ohodnicki, B. Chorpening, and Y. Duan, “*Anharmonicity Explains Temperature Renormalization Effects of the Band Gap in SrTiO_3* ”, J. Phys. Chem. Lett. **11**, 2518–2523 (2020).
49. T. Tanimoto, K. Suekuni, T. Tanishita, H. Usui, **T. Tadano**, T. Kamei, H. Saito, H. Nishiate, C. H. Lee, K. Kuroki, and M. Ohtaki, “*Enargite Cu_3PS_4 : A Cu–S-Based Thermoelectric Material with a Wurtzite-Derivative Structure*”, Adv. Funct. Mater. **30**, 2000973 (2020).
50. M. Hirayama, **T. Tadano**, Y. Nomura, and R. Arita, “*Materials design of dynamically stable d^9 layered nickelates*”, Phys. Rev. B **101**, 075107 (2020).
51. I. Errea, F. Belli, L. Monacelli, A. Sanna, T. Koretsune, **T. Tadano**, R. Bianco, M. Calandra, R. Arita, F. Mauri, and J. A. Flores-Livas, “*Quantum Crystal Structure in the 250 K Superconducting Lanthanum Hydride*”, Nature **578**, 66–69 (2020).
52. Y. Nomura, M. Hirayama, **T. Tadano**, Y. Yoshimoto, K. Nakamura, and R. Arita, “*Formation of 2D single-component correlated electron system and band engineering in the nickelate superconductor NdNiO_2* ”, Phys. Rev. B **100**, 205138 (2019).
53. **T. Tadano**, Y. Nomura, and M. Imada, “*Ab initio derivation of effective Hamiltonian for $\text{La}_2\text{CuO}_4/\text{La}_{1.55}\text{Sr}_{0.45}\text{CuO}_4$ heterostructure*”, Phys. Rev. B **99**, 155148 (2019).
54. **T. Tadano** and S. Tsuneyuki, “*Ab initio prediction of structural phase-transition temperature of SrTiO_3 from finite-temperature phonon calculation*”, J. Ceram. Soc. Jpn. **127**, 404

(2019).

55. Y. Oba, T. Tadano, R. Akashi, and S. Tsuneyuki, “First-principles study of phonon anharmonicity and negative thermal expansion in ScF_3 ”, Phys. Rev. Materials **3**, 033601 (2019).
56. T. Tadano and S. Tsuneyuki, “Quartic Anharmonicity of Rattlers and its Effect on Lattice Thermal Conductivity of Clathrates from First Principles”, Phys. Rev. Lett. **120**, 105901 (2018).
57. T. Tadano and S. Tsuneyuki, “First-principles lattice dynamics method for strongly anharmonic crystals”, J. Phys. Soc. Jpn. **87**, 041015 (2018).
58. P. Norouzzadeh, J. S. Krasinski, and T. Tadano, “Thermal conductivity of type-I, type-II, and type-VIII pristine silicon clathrates: A first-principles study”, Phys. Rev. B **96**, 245201 (2017).
59. A. Rohskopf, H. R. Seyf, K. Gordiz, T. Tadano, and A. Henry, “Empirical Interatomic Potentials Optimized for Phonon Properties”, npj Computational Materials **3**, 27 (2017).
60. W. Sano, T. Koretsune, T. Tadano, R. Akashi, and R. Arita, “Effect of van Hove singularities on high- T_c superconductivity in H_3S ”, Phys. Rev. B **93**, 094525 (2016).
61. T. Tadano and S. Tsuneyuki, “Self-consistent phonon calculations of lattice dynamical properties in cubic SrTiO_3 with first-principles anharmonic force constants”, Phys. Rev. B **92**, 054301 (2015).
62. T. Tadano, Y. Gohda and S. Tsuneyuki, “Impact of rattlers on thermal conductivity of a thermoelectric clathrate: A first-principles study”, Phys. Rev. Lett. **114**, 095501 (2015).
63. T. Tadano, Y. Gohda and S. Tsuneyuki, “Anharmonic force constants extracted from first-principles molecular dynamics: applications to heat transfer simulations”, J. Phys.: Condens. Matter **26**, 225402 (2014).

BOOK CHAPTERS & INVITED REVIEW

1. 只野央将：「第一原理計算を用いた熱伝導・電気伝導予測の前線」, 『セラミックス』 Vol. 59, 779-783, 2024 年.
2. 増木亮太, 野本拓也, 有田亮太郎, 只野央将：「非調和フォノン理論に基づいた有限温度における結晶構造の第一原理計算」, 『固体物理』 Vol. 58, 419-432, 2023 年.
3. 只野央将：「非調和フォノン理論が拓く有限温度物性の第一原理計算」, 『日本物理学会誌』 Vol. 78, 542-547, 2023 年.
4. 只野央将：「熱電材料研究に資する第一原理格子動力学」, 計算科学を活用した熱電変換材料の研究開発動向 (株式会社 シーエムシー・リサーチ), 2022 年.
5. 只野央将：「格子熱伝導の基礎理論と第一原理シミュレーション」, マイクロ・ナノ熱工学の進展 (株式会社 エヌ・ティー・エス), 2021 年.
6. 野村悠祐, 平山元昭, 北谷基治, 只野央将, 有田亮太郎：「ニッケル酸化物新超伝導体の発見：現状と展望」, 『固体物理』 Vol. 55, 491-503, 2020 年.
7. 只野央将, 是常隆, 有田亮太郎：「原子核の量子ゆらぎが支える高圧下 LaH_{10} の高温超伝導」, 『固体物理』 Vol. 55, 425-434, 2020 年.
8. 只野央将：「非調和効果を取り込める新しいフォノン計算ツールの開発」, 『シミュレーション』 Vol. 39, No. 1, 2020 年.
9. 只野央将：「非調和フォノン物性の第一原理計算」, 『応用物理』 Vol. 89, No. 1, 2019 年.
10. 只野央将：「第一原理フォノン伝導計算」, マイクロ・ナノスケールの次世代熱制御技術 フォノンエンジニアリング (株式会社エヌ・ティー・エス), 2017 年.
11. 只野央将, 常行真司：「第一原理からの非調和フォノンと格子熱伝導」, 『固体物理』 (アグネ技術センター) Vol. 52, No. 11, 637, 2017 年.

INVITED TALKS & SEMINARS

1. 只野央将：「第一原理計算とデータ駆動手法による機能性ホイスラー合金の探索」，計算科学研究センター・計算物質科学スーパーコンピュータ共用事業合同ワークショップ「AI/ML に基づく材料設計と開発：理論と実験の接点」，2025 年 01 月 16 日。
2. T. Tadano, “Simulating structural change and phase transitions at finite temperatures: A phonon-based approach”, The 25th Asian Workshop on First-Principles Electronic Structure Calculations (ASIAN-25), Ulsan, South Korea, Oct 28, 2024.
3. T. Tadano, “Computational Exploration of Functional Materials at Finite Temperatures”, LANL-NIMS Quantum and Functional Materials 2024, Tsukuba, Japan, Oct 15, 2024.
4. 只野央将：「計算科学とデータ駆動による磁性材料開発」，DDCoMS-PCoMS-RISME 計算物質科学セミナーシリーズ 2024, Jul 29, 2024.
5. T. Tadano, “Anharmonic Phonon Theory in Condensed Matter Physics with Applications based on DFT”, DFT2024 (RIKEN Symposium), Kobe, Japan, Feb. 22, 2024.
6. 只野央将：「第一原理フォノン計算を用いた有限温度における構造最適化」，第 36 期 CAMM フォーラム本例会，2023 年 6 月 9 日。
7. T. Tadano, “Ab initio calculation of phonons and crystal structures at finite temperatures: A self-consistent phonon approach”, ISSP Theory Seminar, ISSP (University of Tokyo) and online (hybrid), Aug. 19, 2022.
8. T. Tadano, “First-principles calculations of phonons and crystal structures at finite temperatures”, Recent Progress in Thermal Transport Theory and Experiments, Online, May. 30, 2022.
9. 只野央将：「自己無撞着フォノン理論による構造相転移温度の第一原理計算」，物性研究所スパコン共同利用・CCMS 合同研究会「計算物質科学の新展開」，東京大学物性研究所，2022 年 5 月 13 日。
10. 只野央将：「フォノン計算を活用した熱伝導の非経験予測」，透明酸化物光・電子材料第 166 委員会第 92 回研究会，オンライン，2022 年 3 月 11 日。
11. T. Tadano, “Extending first-principles structural optimization method to finite temperatures”, APW-RIKEN-Tsinghua-Kavli workshop “Highlights on condensed matter physics”, Online, Oct. 21–23, 2021.
12. T. Tadano, “Ab initio phonon calculation at finite temperature toward computational exploration of metastable phases”, The Twelfth International Conference on the Science and Technology for Advanced Ceramics (STAC12), Online, Jul. 6–8, 2021.
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