

# Takahiro Tomita

## List of Publications by Year in descending order

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Version: 2024-02-01

80  
papers

2,820  
citations

304743

22  
h-index

168389

53  
g-index

81  
all docs

81  
docs citations

81  
times ranked

3075  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Anomalous transport properties of the antiferromagnetic Weyl semimetals $Mn_3X$ ( $X = Sn, Te$ ) <a href="#">Tj ETQq1 1 0.784314 rgBT /Ov</a>                                    | 0.4  | 1         |
| 2  | Structural Phase Transition and Possible Valence Instability of $Ce_4f$ Electron Induced by Pressure in $CeCoSi$ . <i>Journal of the Physical Society of Japan</i> , 2022, 91, . | 1.6  | 4         |
| 3  | Giant Effective Damping of Octupole Oscillation in an Antiferromagnetic Weyl Semimetal. <i>Small Science</i> , 2021, 1, 2000062.   | 9.9  | 20        |
| 4  | High-temperature antiferromagnetism in Yb based heavy fermion systems proximate to a Kondo insulator. <i>Physical Review Research</i> , 2021, 3, .                               | 3.6  | 7         |
| 5  | X-ray study of ferroic octupole order producing anomalous Hall effect. <i>Nature Communications</i> , 2021, 12, 5582.  | 12.8 | 10        |
| 6  | Anomalous transport due to Weyl fermions in the chiral antiferromagnets $Mn_3X$ , $X = Sn, Ge$ . <i>Nature Communications</i> , 2021, 12, 572.                                   | 12.8 | 90        |
| 7  | Logarithmic criticality in transverse thermoelectric conductivity of the ferromagnetic topological semimetal $CoMnSb$ . <i>Physical Review B</i> , 2021, 104, .                  | 3.2  | 3         |
| 8  | Giant field-like torque by the out-of-plane magnetic spin Hall effect in a topological antiferromagnet. <i>Nature Communications</i> , 2021, 12, 6491.                           | 12.8 | 41        |
| 9  | Antichiral spin order, its soft modes, and their hybridization with phonons in the topological semimetal $Mn_3Sb$ . <i>Physical Review B</i> , 2020, 102, .                      | 3.2  | 29        |
| 10 | Electrical nucleation, displacement, and detection of antiferromagnetic domain walls in the chiral antiferromagnet $Mn_3Sn$ . <i>Communications Physics</i> , 2020, 3, .         | 5.3  | 21        |
| 11 | Crystal Structure and Magnetic Properties of the Ferromagnet $CoMnSb$ . , 2020, , .  |      | 2         |
| 12 | Large Nernst Effect and Thermodynamics Properties in Weyl Antiferromagnet. , 2020, , .   |      | 1         |
| 13 | Sample Quality Dependence of the Magnetic Properties in Non-Collinear Antiferromagnet $Mn_3Sn$ . , 2020, , .   |      | 0         |
| 14 | Scanning tunneling microscopy on cleaved $Mn_3Sn(0001)$ surface. <i>Scientific Reports</i> , 2019, 9, 9677.  | 3.3  | 7         |
| 15 | Magnetic and magnetic inverse spin Hall effects in a non-collinear antiferromagnet. <i>Nature</i> , 2019, 565, 627-630.  | 27.8 | 252       |
| 16 | Quantum valence criticality in a correlated metal. <i>Science Advances</i> , 2018, 4, eaao3547.  | 10.3 | 28        |
| 17 | Evidence for magnetic Weyl fermions in a correlated metal. <i>Nature Materials</i> , 2017, 16, 1090-1095.  | 27.5 | 450       |
| 18 | Large anomalous Nernst effect at room temperature in a chiral antiferromagnet. <i>Nature Physics</i> , 2017, 13, 1085-1090.  | 16.7 | 432       |

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|----|---|------|-----------|
| 19 | Large spontaneous Hall effects in chiral topological magnets. Philosophical Magazine, 2017, 97, 2815-2827.  | 1.6  | 5         |
| 20 | Anisotropic Thermal Expansion of $\hat{1}\pm$ -YbAlB <sub>4</sub> . Journal of Physics: Conference Series, 2017, 807, 022005.   | 0.4  | 2         |
| 21 | X-Ray Diffraction Study of CeT <sub>2</sub> Al <sub>10</sub> (T = Ru, Os) at Low Temperatures and under Pressures. Acta Physica Polonica A, 2017, 131, 988-990.   | 0.5  | 1         |
| 22 | High Magnetic Transition Temperature and Semiconductor like Transport Properties of Mn-doped $\hat{1}\pm$ -YbAlB <sub>4</sub> . Journal of Physics: Conference Series, 2016, 683, 012009.   | 0.4  | 3         |
| 23 | Experimental exploration of novel semimetal state in strong anisotropic Pyrochlore iridate Nd <sub>2</sub> Ir <sub>2</sub> O <sub>7</sub> under high magnetic field. Journal of Physics: Conference Series, 2016, 683, 012024.                                  | 0.4  | 3         |
| 24 | Low-temperature thermal expansion measurements in PrV <sub>2</sub> Al <sub>20</sub> . Journal of Physics: Conference Series, 2016, 683, 012014.   | 0.4  | 1         |
| 25 | Magnetic and Transport Properties of Frustrated $\hat{1}^3$ -MnPd alloys. Journal of Physics: Conference Series, 2016, 683, 012026.   | 0.4  | 0         |
| 26 | Heavy Fermion Superconductivity in Non-magnetic Cage Compound PrV <sub>2</sub> Al <sub>20</sub> . Journal of Physics: Conference Series, 2016, 683, 012013.   | 0.4  | 5         |
| 27 | Frustrated magnetism in a Mott insulator based on a transition metal chalcogenide. Journal of Physics: Conference Series, 2016, 683, 012025.  | 0.4  | 10        |
| 28 | Slater to Mott Crossover in the Metal to Insulator Transition of $\text{Nd}_2\text{Ir}_2\text{O}_7$ . Physical Review Letters, 2016, 117, 056403.   | 7.8  | 172       |
| 29 | Giant Anomalous Hall Effect in the Chiral Antiferromagnet $\text{Mn}_3\text{Ge}$ . Physical Review Applied, 2016, 5, .  | 3.8  | 249       |
| 30 | Pressure-induced magnetic transition exceeding 30 K in the Yb-based heavy-fermion $\hat{1}^2$ -YbAlB <sub>4</sub> . Physical Review B, 2016, 94, .  | 3.2  | 6         |
| 31 | Strong orbital fluctuations in multipolar ordered states of PrV <sub>2</sub> Al <sub>20</sub> . Journal of Magnetism and Magnetic Materials, 2016, 400, 66-69.  | 2.3  | 3         |
| 32 | Quantum Criticality Beneath the Superconducting Dome in $\hat{1}^2$ -YbAlB <sub>4</sub> . Journal of Physics: Conference Series, 2016, 683, 012007.   | 0.4  | 0         |
| 33 | Field-induced quantum metal-insulator transition in the pyrochlore iridate Nd <sub>2</sub> Ir <sub>2</sub> O <sub>7</sub> . Nature Physics, 2016, 12, 134-138.  | 16.7 | 109       |
| 34 | Unconventional Quantum Criticality in $\hat{1}^2$ -YbAlB <sub>4</sub> Detached from Its Magnetically Ordered Phase. Physics Procedia, 2015, 75, 482-487.  | 1.2  | 2         |
| 35 | Correlation between T <sub>c</sub> and Crystal Structure in S-Doped FeSe Superconductors under Pressure: Studied by X-ray Diffraction of FeSe <sub>0.8</sub> SO <sub>0.2</sub> at Low Temperatures. Journal of the Physical Society of Japan, 2015, 84, 024713. | 1.6  | 10        |
| 36 | Strange metal without magnetic criticality. Science, 2015, 349, 506-509.  | 12.6 | 69        |

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|----|--|-----|-----------|
| 37 | High Pressure Measurements of the Resistivity of $\text{YbAlB}_4$ . Journal of Physics: Conference Series, 2015, 592, 012019.  | 0.4 | 11        |
| 38 | Heavy-Fermion Superconductivity in the Quadrupole Ordered State of $\text{PrV}_2$ . Physical Review Letters, 2014, 113, 267001.  | 7.8 | 157       |
| 39 | Pressure-Induced Enhancement of Superconductivity and Structural Transition in $\text{BiS}_2$ -Layered $\text{LaO}_{1-x}\text{F}_x\text{BiS}_2$ . Journal of the Physical Society of Japan, 2014, 83, 063704.    | 1.6 | 111       |
| 40 | Anomalous pressure dependence of the superconductivity in noncentrosymmetric $\text{LaNiC}_2$ : Evidence of strong electronic correlations. Physical Review B, 2014, 90, .                                       | 3.2 | 17        |
| 41 | High-pressure studies on $\text{Tc}$ and crystal structure of iron chalcogenide superconductors. Science and Technology of Advanced Materials, 2012, 13, 054401.   | 6.1 | 3         |
| 42 | High-pressure studies for hydrogen substituted $\text{CaFeAsF}_{1-x}\text{H}_x$ . Journal of Physics: Conference Series, 2012, 400, 022092.  | 0.4 | 2         |
| 43 | Superconducting Transitions and Crystal Structure for $\text{FeSe}_{1-x}\text{S}_x$ ( $x=0.2$ ) under Pressure. Journal of Physics: Conference Series, 2012, 400, 022125.  | 0.4 | 4         |
| 44 | X-Ray Diffraction Measurements at Low Temperature under Pressure. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2012, 22, 222-228.  | 0.0 | 1         |
| 45 | High-Pressure Studies for Hydrogen Substituted $\text{CaFeAsF}_{1-x}\text{H}_x$ and $\text{SmFeAsO}_{1-x}\text{H}_x$ . Journal of Superconductivity and Novel Magnetism, 2012, 25, 1293-1296.                    | 1.8 | 10        |
| 46 | High-pressure Effect for High-Tc Superconductors. TEION KOGAKU (Journal of Cryogenics and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382  | 0.1 | 2         |
| 47 | High-Pressure Studies for Iron-Based Superconductors. Japanese Journal of Applied Physics, 2011, 50, 05FD01.   | 1.5 | 3         |
| 48 | Anisotropic heavy-Fermi-liquid formation in valence-fluctuating $\text{YbAlB}_4$ . Physical Review B, 2011, 84, .  | 3.2 | 44        |
| 49 | Anomalous Spin Dynamics Observed by High-Frequency ESR in Honeycomb Lattice Antiferromagnet $\text{InCu}_2\text{V}_1\text{VO}_3$ . Journal of the Physical Society of Japan, 2011, 80, 023705.                   | 1.6 | 17        |
| 50 | High-Pressure Studies for Iron-Based Superconductors. Japanese Journal of Applied Physics, 2011, 50, 05FD01.   | 1.5 | 0         |
| 51 | Low-temperature magnetization of the quantum critical heavy fermion superconductor $\text{YbAlB}_4$ . Physica Status Solidi (B): Basic Research, 2010, 247, 720-722.   | 1.5 | 6         |
| 52 | Pronounced non-Fermi-liquid behavior of the quantum critical heavy fermion superconductor $\text{YbAlB}_4$ . Physica Status Solidi (B): Basic Research, 2010, 247, 485-489.                                      | 1.5 | 6         |
| 53 | Pressure Dependence of Electrical Transport in the Triangular Antiferromagnetic Insulators $\text{FeGa}_2\text{S}_4$ and $\text{FeGa}_2\text{S}_5$ . Journal of the Physical Society of Japan, 2009, 78, 094603. | 1.6 | 12        |
| 54 | High frequency ESR measurements of Co-delta chain. Journal of Physics: Conference Series, 2009, 150, 042243.   | 0.4 | 0         |

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|----|--|-----|-----------|
| 55 | Multi-frequency ESR study of $S = 1/2$ frustration systems $Zn_{1-x}Cu_{4-x}(OH)_6Cl_2$ . Journal of Physics: Conference Series, 2009, 145, 012035.  | 0.4 | 1         |
| 56 | ESR measurement of triple chain magnet $Cu_3(OH)_4SO_4$ in millimeter wave region. , 2007, , .   |     | 0         |
| 57 | Pressure-Induced Increase in $J_c$ across Single Grain Boundaries in $YBa_2Cu_3O_x$ . Journal of the Physical Society of Japan, 2007, 76, 118-119.   | 1.6 | 0         |
| 58 | Development of high-pressure, high-field and multifrequency electron spin resonance system. Review of Scientific Instruments, 2007, 78, 065107.  | 1.3 | 29        |
| 59 | Development and application of high field and high pressure ESR system. Journal of Physics: Conference Series, 2006, 51, 565-568.  | 0.4 | 6         |
| 60 | Recent developments of high field ESR systems in Kobe. Journal of Physics: Conference Series, 2006, 51, 611-614.   | 0.4 | 15        |
| 61 | On the origin of the double superconducting transition in overdoped $YBa_2Cu_3O_x$ . Physica C: Superconductivity and Its Applications, 2006, 434, 194-198.  | 1.2 | 37        |
| 62 | Enhancement of the Critical Current Density of $YBa_2Cu_3O_x$ Superconductors under Hydrostatic Pressure. Physical Review Letters, 2006, 96, 077001.   | 7.8 | 16        |
| 63 | Pressure-induced enhancement of the critical current density in superconducting $YBa_2Cu_3O_x$ bicrystalline rings. Physical Review B, 2006, 74, .   | 3.2 | 19        |
| 64 | Negative thermal expansion of $MgB_2$ in the superconducting state and anomalous behavior of the bulk $\chi$ vs $T$ function. Physical Review B, 2005, 72, .   | 3.2 | 42        |
| 65 | Enhanced superconducting properties of bicrystalline $YBa_2Cu_3O_x$ and alkali metals under pressure. Journal of Physics Condensed Matter, 2005, 17, S921-S928.  | 1.8 | 8         |
| 66 | Effect of pressure on the magnetic properties of the series $Cu_{1-x}Zn_xCr_2Se_4$ . Journal of Magnetism and Magnetic Materials, 2004, 272-276, 826-827.  | 2.3 | 2         |
| 67 | Comparative pressure studies of the superconducting transition temperature in isotopically substituted samples of $\hat{I}^2-(BEDT-TTF)_2Cu(SCN)_2$ . Physica C: Superconductivity and Its Applications, 2004, 402, 17-26. | 1.2 | 4         |
| 68 | Hydrostatic pressure dependence of the Curie temperature of $[MnR_4TPP][TCNE]$ for $R=OC_{10}H_{21}$ , $OC_{14}H_{29}$ , and $F$ (TPP, tetraphenylporphyrin; TCNE, tetracyanoethylene). Polyhedron, 2003, 22, 3339-3344.   | 2.2 | 5         |
| 69 | The effect of pressure on the magnetic properties of the molecule-based canted metamagnet dcamethylferrocenium 2,3-dicyano-1,4-naphthoquinonide, $FeCp^*_2 [DCNQ]$ . Polyhedron, 2003, 22, 2249-2252.                      | 2.2 | 10        |
| 70 | Dependence of the superconducting transition temperature of single and polycrystalline $MgB_2$ on hydrostatic pressure. Physica C: Superconductivity and Its Applications, 2003, 385, 105-116.                             | 1.2 | 53        |
| 71 | Magnetic anisotropy, tunneling effects, high-frequency EPR, and molecular structure of fast-relaxation species of $Mn^{12}$ . Physical Review B, 2002, 65, .   | 3.2 | 37        |
| 72 | Pressure dependent studies of Ni-incorporated $CeSb$ . Physica B: Condensed Matter, 2002, 312-313, 261-263.  | 2.7 | 0         |

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|----|---|-----|-----------|
| 73 | AF-FRI metamagnetic transition in itinerant $Mn_{2-x}Co_xSb$ system: high-field and high-pressure effects. <i>Physica B: Condensed Matter</i> , 2002, 318, 198-210. | 2.7 | 38        |
| 74 | Dependence of $T_c$ on hydrostatic pressure in superconducting $MgB_2$ . <i>Physical Review B</i> , 2001, 64, .   | 3.2 | 78        |
| 75 | Pressure-dependent studies of $CeSbNi_x$ ( $0 < x < 0.35$ ). <i>Physical Review B</i> , 2001, 65, .   | 3.2 | 3         |
| 76 | Magnetoresistance in $PrlnAg_2$ at 40mK. <i>Physica B: Condensed Matter</i> , 2000, 281-282, 150-151.   | 2.7 | 11        |
| 77 | Antiferro-quadrupolar ordering in $TmTe$ under high magnetic fields and high pressures. <i>Physica B: Condensed Matter</i> , 2000, 281-282, 574-575.                | 2.7 | 0         |
| 78 | Precise resistivity measurement in $PrlnAg_2$ down to 50 mK. <i>Physica B: Condensed Matter</i> , 2000, 284-288, 1341-1342.   | 2.7 | 8         |
| 79 | Selective resonance effect of the folded longitudinal phonon modes in the Raman spectra of $SiC$ . <i>Physical Review B</i> , 2000, 62, 12896-12901.                | 3.2 | 28        |
| 80 | Magnetic properties of $UNiAl$ under pressure. <i>Physical Review B</i> , 1999, 59, 8720-8724.  | 3.2 | 14        |