

# Taku Matsushita

## List of Publications by Year in descending order

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51  
papers

570  
citations

759233

12  
h-index

642732

23  
g-index

51  
all docs

51  
docs citations

51  
times ranked

510  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ferromagnetic Transition of Pyrochlore Compound Yb <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> . Journal of the Physical Society of Japan, 2003, 72, 3014-3015.	1.6	101
2	Quantum Spin Liquid State in a Two-Dimensional Semiconductive Metal-Organic Framework. Journal of the American Chemical Society, 2020, 142, 16513-16517.	13.7	70
3	Superfluidity of $^4\text{He}$ in One and Three Dimensions Realized in Nanopores. Physical Review Letters, 2007, 99, 255301.	7.8	53
4	Specific Heat Anomaly in Solid <sup>3</sup> He due to Vacancy Waves. Journal of Low Temperature Physics, 1998, 110, 109-114.	1.4	44
5	Possible One-Dimensional <sup>3</sup> He Quantum Fluid Formed in Nanopores. Physical Review Letters, 2005, 94, 065301.	7.8	35
6	Fluid States of Helium Adsorbed in Nanopores. Journal of Low Temperature Physics, 2009, 157, 324-351.	1.4	21
7	Ferromagnetic ordering of S=1/2 Heisenberg ferromagnetic chains in organic magnet $\text{BBDTA}^{\text{TM}}\text{GaBr}_4$ . Physical Review B, 2006, 74, .	3.2	20
8	Extremely High Frequency Dependence of Two-Dimensional Superfluid Onset. Journal of the Physical Society of Japan, 2009, 78, 033604.	1.6	18
9	Quantum Spin State and Magnetization Plateaus in an $S=1$ Kagomé Heisenberg Antiferromagnet. Journal of the Physical Society of Japan, 2010, 79, 093701.	1.6	18
10	Absence of Magnetic Long Range Order in Ba <sub>3</sub> ZnRu <sub>2</sub> O <sub>9</sub> : A Spin-Liquid Candidate in the $S=3/2$ Dimer Lattice. Journal of the Physical Society of Japan, 2017, 86, 033702.	1.6	15
11	Adsorption Potentials and Film Growths of <sup>4</sup> He in Nanometer Pores of FSM-16 (2.8 nm) and HMM-2 (2.7 nm). Journal of Low Temperature Physics, 2014, 143, 1078-1083.	1.4	13
12	Frequency and Size Dependences of Superfluidity in Low-Dimensional <sup>4</sup> He Fluids. Journal of Low Temperature Physics, 2011, 162, 549-558.	1.4	13
13	One-Dimensional Phonon State of <sup>4</sup> He Films Adsorbed in Straight Nanopores. Journal of Low Temperature Physics, 2008, 150, 342-346.	1.4	12
14	Dimensional-Crossover of <sup>3</sup> He Gas Formed in One-Dimensional Nanometer Tunnel. Journal of Low Temperature Physics, 2005, 138, 211-216.	1.4	11
15	Observation of superfluidity in two- and one-dimensions. Low Temperature Physics, 2013, 39, 786-792.	0.6	11
16	Superfluid Onset of <sup>4</sup> He Nanotube Depending on a One-Dimensional Length. Journal of Low Temperature Physics, 2016, 183, 273-283.	1.4	8
17	Coexistence of Surface Superconducting and Three-Dimensional Topological Dirac States in Semimetal KZnBi. Physical Review X, 2021, 11, .	8.9	8
18	Atomic Motion in Low-Coverage Helium Films Adsorbed in FSM Nanochannels. Journal of Low Temperature Physics, 2013, 171, 657-663.	1.4	7

#	ARTICLE	IF	CITATIONS
19	Possible Dimensional Crossover to 1D of $^3\text{He}$ Fluid in Nanochannels Observed in Susceptibilities. Journal of Low Temperature Physics, 2016, 183, 251-257.	1.4	7
20	Direct three-dimensional ordering of quasi-one-dimensional quantum dimer system near critical fields. Physical Review B, 2017, 95, .	3.2	7
21	Phonon excitations in $^4\text{He}$ fluid film formed in 2.2nm diameter straight pores. Journal of Physics and Chemistry of Solids, 2005, 66, 1520-1523.	4.0	6
22	Influence of Adsorption Potential on $^3\text{He}$ Fluid States Formed on $^4\text{He}$ -Preplated Substrates. Journal of Low Temperature Physics, 2005, 138, 289-294.	1.4	6
23	Vortex Diffusivity and Core Diameter of 2D Superfluid in $^4\text{He}$ Films on Gold and $\text{H}_2$ Substrates. Journal of Low Temperature Physics, 2010, 158, 262-267.	1.4	6
24	Phase Diagram of $^4\text{He}$ Film in 3D Nanopores of ZTC. Journal of Low Temperature Physics, 2011, 162, 565-572.	1.4	6
25	Amorphous solid like heat capacity of $^4\text{He}$ fluid films adsorbed on pores. Journal of Physics: Conference Series, 2009, 150, 032112.	0.4	5
26	Helium Film Formed in 1.2 nm Pore in Zeolite Templated Carbon. Journal of Low Temperature Physics, 2010, 158, 275-280.	1.4	5
27	Low Temperature Performance of Miniature Capacitive Pressure Sensor with Submicron Gap. Journal of Low Temperature Physics, 2005, 138, 917-921.	1.4	4
28	Phase diagram of $^4\text{He}$ adsorbed in 1D 2.4 nm nanopores of FSM. Journal of Physics: Conference Series, 2012, 400, 012055.	0.4	4
29	QCM Measurements of Superfluid Response in $^4\text{He}$ Films up to 180 MHz. Journal of Low Temperature Physics, 2007, 148, 827-831.	1.4	3
30	Quantum State of $^4\text{He}$ Confined in Nanocages of Na-Y Zeolite. Journal of Physics: Conference Series, 2009, 150, 032055.	0.4	3
31	Structural phase transition in one-dimensional bond-alternating antiferromagnet $\text{F}_{5-\text{PNN}}$ . Journal of Physics: Conference Series, 2012, 400, 032016.	0.4	3
32	Nuclear Spin Relaxation Characteristic of Submonolayer $^3\text{He}$ Films in Nanochannels. Journal of Low Temperature Physics, 2014, 175, 407-413.	1.4	3
33	Specific Heat Anomaly in bcc Solid $^3\text{He}$ . Journal of Low Temperature Physics, 1998, 113, 729-734.	1.4	2
34	Suppression of $\pi/2$ Spin Echo in Solid $^3\text{He}$ in High Fields. Journal of Low Temperature Physics, 2002, 126, 33-38.	1.4	2
35	Specific heat of film adsorbed on three-dimensional pores. Physica B: Condensed Matter, 2003, 329-333, 282-283.	2.7	2
36	One-Dimensional $^4\text{He}$ and $^3\text{He}$ Quantum Fluids Realized in Nanopores. AIP Conference Proceedings, 2006, , .	0.4	2

#	ARTICLE	IF	CITATIONS
37	Vapor Pressure Measurement for $^4\text{He}$ Films Adsorbed on 2D Mesoporous Hectorite. AIP Conference Proceedings, 2006, , .	0.4	2
38	Possible $^3\text{He}$ Boltzmann Gas Formed on Three-Dimensional Nanopores Preplated with $^4\text{He}$ . Journal of Low Temperature Physics, 2007, 148, 785-790.	1.4	2
39	Phase diagrams of $^4\text{He}$ Bose fluids formed in one-and three-dimensional nanopores. Journal of Physics: Conference Series, 2009, 150, 032118.	0.4	2
40	Generation of $^4\text{He}$ $^2\text{He}^+$ . Journal of Low Temperature Physics, 2019, 196, 275-282.	1.4	2
41	Temperature-linear spin-spin relaxation rates of one-dimensional $\text{He}^3$ fluid formed in nanochannels. Physical Review B, 2021, 103, .	3.2	2
42	Superfluid State of $^4\text{He}$ Films Adsorbed on 27 Å... Pores in HMM-2. Journal of Low Temperature Physics, 2004, 134, 601-606.	1.4	1
43	Magnetic susceptibility and magnetization of slightly distorted Kagomé magnet, m-EPYNN-BF <sub>4</sub> . Journal of Physics and Chemistry of Solids, 2005, 66, 1446-1449.	4.0	1
44	Simultaneous Measurements of Heat Capacity and Superfluid Density of $^4\text{He}$ Adsorbed on Nanopores with Three-Dimensional Network. AIP Conference Proceedings, 2006, , .	0.4	1
45	Quantum States of Helium Atoms Confined in a Nanocage in Na-Y Zeolite. Journal of Low Temperature Physics, 2010, 158, 188-193.	1.4	1
46	$^4\text{He}$ Fluid in Extremely Narrow 1D Channels 1.5 Ånm in Diameter. Journal of Low Temperature Physics, 2011, 162, 536-543.	1.4	1
47	$^3\text{He}$ Effect on 2D Superfluidity in $^3\text{He}$ - $^4\text{He}$ Mixture Films on Planar Gold. Journal of Low Temperature Physics, 2013, 171, 650-656.	1.4	1
48	Superfluid Transition of $^4\text{He}$ in Porous Gold Studied with Quartz Crystal Resonator. AIP Conference Proceedings, 2006, , .	0.4	0
49	Transition from a 2D Degenerate Bose Liquid to 3D Superfluid in $^4\text{He}$ Films Formed in Nanopores. Journal of the Physical Society of Japan, 2017, 86, 103601.	1.6	0
50	An experimental setup for creating and imaging $^4\text{He}_2^*$ excimer cluster tracers in superfluid helium-4 via neutron- $^3\text{He}$ absorption reaction. Review of Scientific Instruments, 2020, 91, 033318.	1.3	0
51	Proof-of-principle Experiment of $^4\text{He}$ Excimer Cluster Generation via Neutron- $^3\text{He}$ Absorption Reaction for Visualization of Velocity Fields in Superfluid $^4\text{He}$ . Hamon, 2020, 30, 192-196.	0.0	0