

# 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	Coexistence of Surface Superconducting and Three-Dimensional Topological Dirac States in Semimetal KZnBi. <i>Physical Review X</i> , 2021, 11, .	8.9	8
2	Temperature-linear spin-spin relaxation rates of one-dimensional He <sup>3</sup> fluid formed in nanochannels. <i>Physical Review B</i> , 2021, 103, .	3.2	2
3	An experimental setup for creating and imaging <sup>4</sup> He <sup>2+</sup> excimer cluster tracers in superfluid helium-4 via neutron- <sup>3</sup> He absorption reaction. <i>Review of Scientific Instruments</i> , 2020, 91, 033318.	1.3	0
4	Quantum Spin Liquid State in a Two-Dimensional Semiconductive Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2020, 142, 16513-16517.	13.7	70
5	Proof-of-principle Experiment of <sup>4</sup> He Excimer Cluster Generation via Neutron- <sup>3</sup> He Absorption Reaction for Visualization of Velocity Fields in Superfluid <sup>4</sup> He. <i>Hamon</i> , 2020, 30, 192-196.	0.0	0
6	Generation of <sup>4</sup> He <sup>2+</sup> . <i>Journal of Low Temperature Physics</i> , 2019, 196, 275-282.	1.4	2
7	Direct three-dimensional ordering of quasi-one-dimensional quantum dimer system near critical fields. <i>Physical Review B</i> , 2017, 95, .	3.2	7
8	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. <i>Journal of the Physical Society of Japan</i> , 2017, 86, 033702.	1.6	15
9	Transition from a 2D Degenerate Bose Liquid to 3D Superfluid in <sup>4</sup> He Films Formed in Nanopores. <i>Journal of the Physical Society of Japan</i> , 2017, 86, 103601.	1.6	0
10	Possible Dimensional Crossover to 1D of <sup>3</sup> He Fluid in Nanochannels Observed in Susceptibilities. <i>Journal of Low Temperature Physics</i> , 2016, 183, 251-257.	1.4	7
11	Superfluid Onset of <sup>4</sup> He Nanotube Depending on a One-Dimensional Length. <i>Journal of Low Temperature Physics</i> , 2016, 183, 273-283.	1.4	8
12	Nuclear Spin Relaxation Characteristic of Submonolayer <sup>3</sup> He Films in Nanochannels. <i>Journal of Low Temperature Physics</i> , 2014, 175, 407-413.	1.4	3
13	<sup>3</sup> He Effect on 2D Superfluidity in <sup>3</sup> He- <sup>4</sup> He Mixture Films on Planar Gold. <i>Journal of Low Temperature Physics</i> , 2013, 171, 650-656.	1.4	1
14	Atomic Motion in Low-Coverage Helium Films Adsorbed in FSM Nanochannels. <i>Journal of Low Temperature Physics</i> , 2013, 171, 657-663.	1.4	7
15	Observation of superfluidity in two- and one-dimensions. <i>Low Temperature Physics</i> , 2013, 39, 786-792.	0.6	11
16	Phase diagram of <sup>4</sup> He adsorbed in 1D 2.4 nm nanopores of FSM. <i>Journal of Physics: Conference Series</i> , 2012, 400, 012055.	0.4	4
17	Structural phase transition in one-dimensional bond-alternating antiferromagnet F <sub>5</sub> PNN. <i>Journal of Physics: Conference Series</i> , 2012, 400, 032016.	0.4	3
18	<sup>4</sup> He Fluid in Extremely Narrow 1D Channels 1.5Ånm in Diameter. <i>Journal of Low Temperature Physics</i> , 2011, 162, 536-543.	1.4	1

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19	Phase Diagram of 4He Film in 3D Nanopores of ZTC. Journal of Low Temperature Physics, 2011, 162, 565-572.	1.4	6
20	Frequency and Size Dependences of Superfluidity in Low-Dimensional 4He Fluids. Journal of Low Temperature Physics, 2011, 162, 549-558.	1.4	13
21	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
22	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
23	Helium Film Formed in 1.2 nm Pore in Zeolite Templated Carbon. Journal of Low Temperature Physics, 2010, 158, 275-280.	1.4	5
24	Vortex Diffusivity and Core Diameter of 2D Superfluid in 4He Films on Gold and H <sub>2</sub> Substrates. Journal of Low Temperature Physics, 2010, 158, 262-267.	1.4	6
25	Fluid States of Helium Adsorbed in Nanopores. Journal of Low Temperature Physics, 2009, 157, 324-351.	1.4	21
26	Extremely High Frequency Dependence of Two-Dimensional Superfluid Onset. Journal of the Physical Society of Japan, 2009, 78, 033604.	1.6	18
27	Amorphous solid like heat capacity of <sup>4</sup> He fluid films adsorbed on pores. Journal of Physics: Conference Series, 2009, 150, 032112.	0.4	5
28	Quantum State of <sup>4</sup> He Confined in Nanocages of Na-Y Zeolite. Journal of Physics: Conference Series, 2009, 150, 032055.	0.4	3
29	Phase diagrams of <sup>4</sup> He bose fluids formed in one-and three-dimensional nanopores. Journal of Physics: Conference Series, 2009, 150, 032118.	0.4	2
30	One-Dimensional Phonon State of 4He Films Adsorbed in Straight Nanopores. Journal of Low Temperature Physics, 2008, 150, 342-346.	1.4	12
31	Superfluidity of ${}^4\text{He}$ in One and Three Dimensions Realized in Nanopores. Physical Review Letters, 2007, 99, 255301.	7.8	53
32	Possible 3He Boltzmann Gas Formed on Three-Dimensional Nanopores Preplated with 4He. Journal of Low Temperature Physics, 2007, 148, 785-790.	1.4	2
33	QCM Measurements of Superfluid Response in 4He Films up to 180 MHz. Journal of Low Temperature Physics, 2007, 148, 827-831.	1.4	3
34	Simultaneous Measurements of Heat Capacity and Superfluid Density of 4He Adsorbed on Nanopores with Three-Dimensional Network. AIP Conference Proceedings, 2006, , .	0.4	1
35	One-Dimensional 4He and 3He Quantum Fluids Realized in Nanopores. AIP Conference Proceedings, 2006, , .	0.4	2
36	Superfluid Transition of 4He in Porous Gold Studied with Quartz Crystal Resonator. AIP Conference Proceedings, 2006, , .	0.4	0

#	ARTICLE	IF	CITATIONS
37	Vapor Pressure Measurement for 4He Films Adsorbed on 2D Mesoporous Hectorite. AIP Conference Proceedings, 2006, , .	0.4	2
38	Ferromagnetic ordering of S=1/2 Heisenberg ferromagnetic chains in organic magnet $\text{[BBDTA]GaBr}_4$ . Physical Review B, 2006, 74, .	3.2	20
39	Magnetic susceptibility and magnetization of slightly distorted Kagomé magnet, m-EPYNN $\text{BF}_4$ . Journal of Physics and Chemistry of Solids, 2005, 66, 1446-1449.	4.0	1
40	Phonon excitations in 4He fluid film formed in 2.2nm diameter straight pores. Journal of Physics and Chemistry of Solids, 2005, 66, 1520-1523.	4.0	6
41	Adsorption Potentials and Film Growths of 4He in Nanometer Pores of FSM-16 (2.8 nm) and HMM-2 (2.7 nm). Journal of Low Temperature Physics, 2005, 138, 211-216.	1.4	11
42	Dimensional-Crossover of 3He Gas Formed in One-Dimensional Nanometer Tunnel. Journal of Low Temperature Physics, 2005, 138, 289-294.	1.4	6
43	Influence of Adsorption Potential on 3He Fluid States Formed on 4He-Preplated Substrates. Journal of Low Temperature Physics, 2005, 138, 289-294.	1.4	6
44	Possible One-Dimensional $^3\text{He}$ Quantum Fluid Formed in Nanopores. Physical Review Letters, 2005, 94, 065301.	7.8	35
45	Low Temperature Performance of Miniature Capacitive Pressure Sensor with Submicron Gap. Journal of Low Temperature Physics, 2005, 138, 917-921.	1.4	4
46	Superfluid State of 4He Films Adsorbed on 27 Å Pores in HMM-2. Journal of Low Temperature Physics, 2004, 134, 601-606.	1.4	1
47	Specific heat of film adsorbed on three-dimensional pores. Physica B: Condensed Matter, 2003, 329-333, 282-283.	2.7	2
48	Ferromagnetic Transition of Pyrochlore Compound $\text{Yb}_2\text{Ti}_2\text{O}_7$ . Journal of the Physical Society of Japan, 2003, 72, 3014-3015.	1.6	101
49	Suppression of $1/2$ Spin Echo in Solid $^3\text{He}$ in High Fields. Journal of Low Temperature Physics, 2002, 126, 33-38.	1.4	2
50	Specific Heat Anomaly in bcc Solid $^3\text{He}$ . Journal of Low Temperature Physics, 1998, 113, 729-734.	1.4	2
51	Specific Heat Anomaly in Solid $^3\text{He}$ due to Vacancy Waves. Journal of Low Temperature Physics, 1998, 110, 109-114.	1.4	44