

Takekazu Ishida

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Short preface. Research on Chemical Intermediates, 2021, 47, 9-10.	2.7	0
2	Neutron Imaging for Intermetallic Alloy using a Delay Line Current-Biased Kinetic-Inductance Detector. Journal of Physics: Conference Series, 2021, 1975, 012023.	0.4	0
3	Practical tests of neutron transmission imaging with a superconducting kinetic-inductance sensor. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 1006, 165411.	1.6	3
4	High Spatial Resolution Neutron Transmission Imaging Using a Superconducting Two-Dimensional Detector. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.7	2
5	Homogeneity of neutron transmission imaging over a large sensitive area with a four-channel superconducting detector. Superconductor Science and Technology, 2021, 34, 015010.	3.5	3
6	Monte Carlo radiation transport modelling of the current-biased kinetic inductance detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 953, 163130.	1.6	6
7	Energy-Resolved Neutron Imaging using a Delay Line Current-Biased Kinetic-Inductance Detector. Journal of Physics: Conference Series, 2020, 1590, 012033.	0.4	0
8	Kinetic inductance neutron detector operated at near critical temperature. Journal of Physics: Conference Series, 2020, 1590, 012036.	0.4	0
9	Superconducting Neutron Detectors and Their Application to Imaging. IEICE Transactions on Electronics, 2020, E103.C, 198-203.	0.6	1
10	SQUID microscopy for mapping vector magnetic fields. Superconductor Science and Technology, 2019, 32, 115006.	3.5	2
11	Temperature dependent characteristics of neutron signals from a current-biased Nb nanowire detector with $¹⁰B$ converter. Journal of Physics: Conference Series, 2019, 1293, 012051.	0.4	5
12	Energy-resolved neutron imaging with high spatial resolution using a superconducting delay-line kinetic inductance detector. Superconductor Science and Technology, 2019, 32, 125009.	3.5	17
13	Scanning SQUID Microscopy for Sensing Vector Magnetic Field. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.7	2
14	Constructing a Vector Scanning SQUID System. Journal of Physics: Conference Series, 2018, 1054, 012059.	0.4	0
15	Neutron signal features of Nb-based kinetic inductance detector with $¹⁰B$ convertor. Journal of Physics: Conference Series, 2018, 1054, 012054.	0.4	1
16	Physical characteristics of delay-line current-biased kinetic inductance detector. Journal of Physics: Conference Series, 2018, 1054, 012056.	0.4	3
17	Confined vortices in <i>de facto</i> mesoscopic $Mo_{80}Ge_{20}$ disks with sector defects. Superconductor Science and Technology, 2018, 31, 125009.	3.5	2
18	High-Speed Neutron Imaging Using a Current-Biased Delay-Line Detector of Kinetic Inductance. Physical Review Applied, 2018, 10, .	3.8	22

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19	Neutron flux spectrum revealed by Nb-based current-biased kinetic inductance detector with a 10B conversion layer. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 842, 71-75.	1.6	13
20	Neutron detection using the superconducting Nb-based current-biased kinetic inductance detector. Superconductor Science and Technology, 2017, 30, 094003.	3.5	6
21	Vortex distribution in small star-shaped Mo 80 Ge 20 plate. Physica C: Superconductivity and Its Applications, 2017, 533, 44-48.	1.2	4
22	Simulations of vortices in a star-shaped plate with an artificial pin. Journal of Physics: Conference Series, 2017, 871, 012027.	0.4	0
23	Fractional vortices in a nano-scaled superconducting composite structure (d-dot) with a twin boundary. Journal of Physics: Conference Series, 2017, 807, 052014.	0.4	0
24	Numerical restoration of surface vortices in Nb films measured by a scanning SQUID microscope. Journal of Physics: Conference Series, 2017, 871, 012021.	0.4	0
25	Superconducting Neutron Detectors. Hamon, 2016, 26, 178-181.	0.0	0
26	Development of a neutron imager based on superconducting detectors. Physica C: Superconductivity and Its Applications, 2016, 530, 98-100.	1.2	2
27	Vortex distribution in amorphous Mo80Ge20 plates with artificial pinning center. Physica C: Superconductivity and Its Applications, 2016, 530, 46-50.	1.2	3
28	Development of an Advanced Circuit Model for Superconducting Strip Line Detector Arrays. IEICE Transactions on Electronics, 2016, E99.C, 676-682.	0.6	2
29	Ginzburg-Landau Calculations of Circular Mo80Ge20 Plates with Sector Defect. Physics Procedia, 2016, 81, 93-96.	1.2	1
30	Ginzburg-Landau Calculations of Star-shaped Mo80Ge20 Superconducting Small Plates. Physics Procedia, 2016, 81, 89-92.	1.2	0
31	Neutron detection using a current biased kinetic inductance detector. Applied Physics Letters, 2015, 107, 232601.	3.3	22
32	Current-Biased Kinetic Inductance Detector for Neutrons. , 2015, , .		0
33	Scanning SQUID Microscope for Sensing Vector Magnetic Field. , 2015, , .		1
34	Coincidence Detection of Double-Layered Current-Biased Kinetic Inductance Detectors Using a 20 ps Pulsed Laser. , 2015, , .		0
35	Twin boundary effects on spontaneous half-quantized vortices in superconducting composite structures (d-dot $\hat{\epsilon}$ ™s). Physica C: Superconductivity and Its Applications, 2015, 518, 44-46.	1.2	1
36	Toward Neutron Radiography Using Two Arrays of Nb-Based Current-Biased Kinetic Inductance Detectors With 10^2 B Converter Sandwiched In-Between. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.7	6

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37	Vector Pickup System Customized for Scanning SQUID Microscopy. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.7	6
38	Thin Film Growth of Rare-Earth Hexaboride. , 2014, , .		0
39	Angular-Dependent Magnetoresistance of CeCoIn ₅ in the Normal State. , 2014, , .		0
40	Vortex Doping Into Superconducting $\text{Mo}_{80}\text{Ge}_{20}$ Square Network. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	2
41	Toward Mega-pixel Neutron Imager Using Current-Biased Kinetic Inductance Detectors of Nb Nanowires with 10^9 B Converter. Journal of Low Temperature Physics, 2014, 176, 216-221.	1.4	16
42	Vortex imaging in amorphous Mo ₈₀ Ge ₂₀ pentagons. Physica C: Superconductivity and Its Applications, 2013, 494, 99-101.	1.2	10
43	Current-Biased Transition Edge Detector of MgB_2 Nanowires for Neutrons: Imaging by Scanning Laser. IEEE Transactions on Applied Superconductivity, 2013, 23, 2200904-2200904.	1.7	12
44	Current-Biased Kinetic Inductance Detector Using MgB_2 Nanowires for Detecting Neutrons. IEEE Transactions on Applied Superconductivity, 2013, 23, 2400604-2400604.	1.7	21
45	Direct observation of vortices by scanning SQUID microscope on small superconducting Mo ₈₀ Ge ₂₀ circular disks. Physica C: Superconductivity and Its Applications, 2013, 484, 86-90.	1.2	14
46	Observation of meander pattern in signals from superconducting MgB ₂ detector by scanning pulsed laser imaging. Physica C: Superconductivity and Its Applications, 2013, 484, 209-212.	1.2	0
47	Vortex states in <i>de facto</i> mesoscopic Mo ₈₀ Ge ₂₀ pentagon plates. Superconductor Science and Technology, 2013, 26, 065001.	3.5	19
48	Complete tailor-made inverse filter for image processing of scanning SQUID microscope. Applied Physics Letters, 2012, 100, 182601.	3.3	7
49	Position Dependent Response of Superconducting MgB ₂ Neutron Detectors Studied by Pulsed Laser Irradiation. Journal of Low Temperature Physics, 2012, 167, 447-454.	1.4	4
50	Torque theory of anisotropic superconductors with no phenomenological parameter in determining vortex core size. Physical Review B, 2011, 83, .	3.2	0
51	Proposal of a Compact Neutron Diffraction System with a Single-Flux-Quantum Signal Processor. IEICE Transactions on Electronics, 2011, E94-C, 254-259.	0.6	15
52	Magnetic flux structures in various shaped composite structures with d- and s-wave superconductors (d-dots). Journal of Physics: Conference Series, 2010, 248, 012028.	0.4	0
53	Vortex Molecule in a Nanoscopic Square Superconducting Plate. Journal of the Physical Society of Japan, 2010, 79, 124704.	1.6	10
54	Scanning laser microscope for imaging nanostructured superconductors. Physica C: Superconductivity and Its Applications, 2010, 470, 730-733.	1.2	0

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55	Anisotropy in Superconductivity and Magnetism of PrFeAsO _{1-x} Single Crystal. Journal of Superconductivity and Novel Magnetism, 2010, 23, 1067-1070.	1.8	0
56	Magnetic flux distribution around BSCCO single crystal d-dot. Physica C: Superconductivity and Its Applications, 2010, 470, S840-S841.	1.2	0
57	Scanning laser microscopy of an MgB ₂ superconducting sensor. Physica C: Superconductivity and Its Applications, 2010, 470, S1023-S1024.	1.2	0
58	Anisotropy in mixed superconducting state of two-band MgB ₂ superconductor. Physica C: Superconductivity and Its Applications, 2010, 470, S639-S640.	1.2	2
59	Systematic characterization of upper critical fields for MgB ₂ thin films by means of the two-band superconducting theory. Superconductor Science and Technology, 2009, 22, 055004.	3.5	14
60	Scanning Pulsed Laser Imaging of Current-Biased MgB ₂ Detector. , 2009, , .		2
61	Periodic flux jump in superconducting Pb networks as consequence of the extended Little's "Parks effect. Physica C: Superconductivity and Its Applications, 2008, 468, 576-580.	1.2	4
62	Superconducting MgB ₂ Thin Film Detector for Neutrons. Journal of Low Temperature Physics, 2008, 151, 1074-1079.	1.4	43
63	Superconducting radiation detector by using a microfabricated MgB ₂ meander line. Physica C: Superconductivity and Its Applications, 2007, 460-462, 618-619.	1.2	7
64	Vortex (particle) and antivortex (hole) doping into superconducting network. Physica C: Superconductivity and Its Applications, 2007, 460-462, 1226-1227.	1.2	7
65	Quasi-particle Spectrum of Nano-scale Superconductors under External Magnetic Field. AIP Conference Proceedings, 2006, , .	0.4	4
66	Nonequilibrium Response of Superconducting MgB ₂ Meander Line against Pulse Laser Irradiation. AIP Conference Proceedings, 2006, , .	0.4	3
67	A New Ferromagnetic Organic Semiconductor (BEDT-TTFVS)·xFeBr ₄ . AIP Conference Proceedings, 2006, , .	0.4	0
68	Experimental and theoretical studies of d-dot. Physica C: Superconductivity and Its Applications, 2006, 437-438, 104-110.	1.2	6
69	Thermal transient response of membrane-structured-superconducting MgB ₂ detector by using 20-ps pulse laser. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 559, 582-584.	1.6	5
70	Direct numerical simulation on non-equilibrium superconducting dynamics after neutron capture in MgB ₂ superconductor. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 559, 594-596.	1.6	9
71	Superconducting characteristics of a MgB ₂ neutron detector fabricated on SiN membrane. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 559, 763-765.	1.6	4
72	Phase diagram for the first peak in torque curves of YBa ₂ Cu ₃ O _{7-x} crystals up to 15T. Physica C: Superconductivity and Its Applications, 2005, 426-431, 69-73.	1.2	1

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73	Upper critical field measurements in MgB ₂ sputtered films up to 30T. Physica C: Superconductivity and Its Applications, 2005, 426-431, 1449-1452.	1.2	6
74	Pulse laser irradiation into superconducting MgB ₂ detector. Physica C: Superconductivity and Its Applications, 2005, 426-431, 1716-1720.	1.2	9
75	Magnetization and vortex profiles in the honeycomb network of Pb. Physica C: Superconductivity and Its Applications, 2005, 426-431, 108-112.	1.2	3
76	Fabrication of superconducting d-wave dot embedded in an s-wave matrix. Physica C: Superconductivity and Its Applications, 2005, 426-431, 104-107.	1.2	6
77	Direct numerical simulations for non-equilibrium superconducting dynamics and related neutron detection in MgB ₂ . Physica C: Superconductivity and Its Applications, 2005, 426-431, 169-173.	1.2	4
78	Critical Current Density of As-grown MgB ₂ Films Fabricated by Molecular Beam Epitaxy under Low-growth Rate and Low-temperature Conditions. TEION KOGAKU (Journal of Cryogenics and Tj ETQqO O O.r.gBT /Overlock 10 T		
79	Reply to "Comment on "Superconducting anisotropy and evidence for intrinsic pinning in single crystalline MgB ₂ ". Physical Review B, 2004, 70, .	3.2	0
80	Hall effect and specific heat under magnetic fields in CeSi. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E1533-E1534.	2.3	4
81	Nanofabrication of superconducting MgB ₂ neutron detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 529, 405-408.	1.6	13
82	Direct numerical experiments for neutron detection using superconductor MgB ₂ . Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 529, 409-412.	1.6	18
83	Vortex configurations in the nanofabricated network of Nb: direct observations and calculations. Physica C: Superconductivity and Its Applications, 2004, 412-414, 552-556.	1.2	2
84	Coexistence of superconductivity and spin density wave in underdoped YBa ₂ Cu ₄ O ₈ . Physica C: Superconductivity and Its Applications, 2004, 412-414, 526-529.	1.2	0
85	Ginzburg-Landau calculations of d-wave superconducting dot in s-wave superconducting matrix. Physica C: Superconductivity and Its Applications, 2004, 412-414, 352-357.	1.2	14
86	Superconducting dc characteristics of meander lines made by 10B enriched MgB ₂ thin films. Physica C: Superconductivity and Its Applications, 2004, 412-414, 1387-1390.	1.2	5
87	Multiple superconducting gaps in MgB ₂ single crystals from magnetic torque. Physica C: Superconductivity and Its Applications, 2004, 412-414, 254-257.	1.2	2
88	Neutron detector by using a metallic high-T _c superconductor MgB ₂ . Physica C: Superconductivity and Its Applications, 2004, 412-414, 1597-1601.	1.2	7
89	Electron Doping Effect on the Magnetic and Electric Properties of Ca _{3-x} Y _x Co ₂ O ₆ . Journal of the Physical Society of Japan, 2004, 73, 3217-3218.	1.6	9
90	Superconducting behavior of a square microhole lattice on Pb film. Physica B: Condensed Matter, 2003, 329-333, 1384-1385.	2.7	0

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91	A simple sample-inverting cryostat for Hall resistance measurements. Physica B: Condensed Matter, 2003, 329-333, 1640-1641.	2.7	1
92	Evidence for spin density wave in the superconducting YBa ₂ Cu ₄ O ₈ . Physica C: Superconductivity and Its Applications, 2003, 388-389, 271-272.	1.2	2
93	Peak effect and vortex phase diagram of YBa ₂ Cu ₄ O ₈ . Physica C: Superconductivity and Its Applications, 2003, 392-396, 382-385.	1.2	4
94	Observation of square array of nickel dots by using high-T _c SQUID microscope. Physica C: Superconductivity and Its Applications, 2003, 392-396, 1406-1410.	1.2	1
95	Low-field magnetic torque of a single crystal MgB ₂ . Physica C: Superconductivity and Its Applications, 2003, 392-396, 268-271.	1.2	3
96	Vortex profiles of 16.9- μ m square microhole lattice on Pb film. Physica C: Superconductivity and Its Applications, 2003, 392-396, 414-418.	1.2	2
97	Vortex phase diagrams of YBa ₂ Cu ₄ O ₈ in H _a ∥c and H _a ∥b. Physica C: Superconductivity and Its Applications, 2003, 388-389, 741-742.	1.2	5
98	Temperature dependence of magnetic torque for a single crystal MgB ₂ in 10 kG. Physica C: Superconductivity and Its Applications, 2003, 388-389, 165-166.	1.2	1
99	Design of neutron detector by using a novel superconductor MgB ₂ . Physica C: Superconductivity and Its Applications, 2003, 392-396, 1501-1503.	1.2	29
100	Superconducting anisotropy and evidence for intrinsic pinning in single crystalline MgB ₂ . Physical Review B, 2002, 66, .	3.2	43
101	Vortex phase diagram of YBa ₂ Cu ₄ O ₈ . Physica C: Superconductivity and Its Applications, 2002, 378-381, 424-427.	1.2	1
102	Crystalline anisotropy in electron-doped superconductor Pr _{0.9} LaCe _{0.1} CuO ₄ . Physica C: Superconductivity and Its Applications, 2002, 378-381, 483-486.	1.2	0
103	Anomalous matching effect and attractive vortex interaction in 7.5- μ m triangular microhole lattice on Pb film. Physica C: Superconductivity and Its Applications, 2002, 378-381, 487-490.	1.2	5
104	Vortex behaviour of 1.8- μ m triangular microhole lattice on Pb film: matching effect. Physica C: Superconductivity and Its Applications, 2002, 378-381, 560-563.	1.2	4
105	Intrinsic Pinning does not Influence the Vortex Melting Transition of YBa ₂ Cu ₃ O _{6.94} in H _a ∥c Configuration. Journal of the Physical Society of Japan, 2001, 70, 2110-2113.	1.6	3
106	Superconducting anisotropy in Nd _{1.85} Ce _{0.15} CuO ₄ single crystals. Physica C: Superconductivity and Its Applications, 2001, 357-360, 298-301.	1.2	4
107	Superconducting anisotropy in double-chain YBa ₂ Cu ₄ O ₈ single crystals. Physica C: Superconductivity and Its Applications, 2001, 357-360, 302-304.	1.2	12
108	Micro-hole lattice on lead film as accommodations for vortices: matching peaks in magnetization. Physica C: Superconductivity and Its Applications, 2001, 357-360, 608-610.	1.2	12

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109	Direct observation of vortex images on lead micro-hole lattice by SQUID microscope. Physica C: Superconductivity and Its Applications, 2001, 357-360, 604-607.	1.2	5
110	Anomalous matching effect in the magnetization of the triangular microhole lattice on a Pb film of 7.5 μm lattice constant. Superconductor Science and Technology, 2001, 14, 1166-1169.	3.5	13
111	Nature of vortex melting transition when the field is perpendicular to the c-axis of untwinned YBa ₂ Cu ₃ O _{6.94} . Physica B: Condensed Matter, 2000, 284-288, 727-728.	2.7	0
112	Vortex Lattice Melting in Underdoped YBa ₂ Cu ₄ O ₈ . , 2000, , 323-325.		3
113	Does Vortex Lattice of YBa ₂ Cu ₃ O _{6.94} in $H \parallel c$ Melt Below Intrinsic-Pinning Irreversibility Line?. Journal of Low Temperature Physics, 1999, 117, 1387-1391.	1.4	1
114	In-plane anisotropy of vortex-lattice melting in large YBa ₂ Cu ₃ O ₇ single crystals. Physical Review B, 1998, 58, 5222-5225.	3.2	44
115	Two- and fourfold ab-plane torque symmetry in untwinned YBa ₂ Cu ₃ O ₇ single crystals. Physical Review B, 1997, 56, 11897-11902.	3.2	31
116	Search for a d-Wave Chiral-Glass Transition in Granular High-Tc Superconductor (Sr _{0.7} Ca _{0.3}) _{0.95} CuO _{2-x} . Journal of the Physical Society of Japan, 1997, 66, 2256-2259.	1.6	4
117	In-plane torque and gap symmetry of untwinned YBa ₂ Cu ₃ O ₇ crystals. European Physical Journal D, 1996, 46, 1217-1218.	0.4	4
118	Gap symmetry and intrinsic intraplane pinning of untwinned YBa ₂ Cu ₃ O ₇ single crystals. Journal of Low Temperature Physics, 1996, 105, 1165-1170.	1.4	2
119	Evidence for vortex lattice melting and softening in untwinned YBa ₂ Cu ₃ O ₇ single crystal. Journal of Low Temperature Physics, 1996, 105, 1171-1176.	1.4	3