

Tsuyoshi Tamegai

List of Publications by Year in descending order

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Version: 2024-02-01

95
papers

2,904
citations

172457

29
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175258

52
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95
all docs

95
docs citations

95
times ranked

2041
citing authors

#	ARTICLE	IF	CITATIONS
1	Trapping a magnetic field of 17.89 T in stacked coated conductors by suppression of flux jumps. Superconductor Science and Technology, 2022, 35, 02LT01.	3.5	9
2	High-Frequency ac Susceptibility of Iron-Based Superconductors. Materials, 2022, 15, 1079.	2.9	4
3	Complex vortex-antivortex dynamics in the magnetic superconductor $\text{EuFe}(\text{As}_{1-x}\text{Px})_2$. Physical Review B, 2022, 105, .	3.2	3
4	Suppression of Superconductivity in Heavy-ion Irradiated 2H-NbSe_2 Caused by Negative Pressure. Journal of the Physical Society of Japan, 2022, 91, .	1.6	5
5	Elucidating the origin of planar defects that enhance critical current density in $\text{CaKFe}_4\text{As}_4$ single crystals. Superconductor Science and Technology, 2021, 34, 034003.	3.5	10
6	Scaling laws for ion irradiation effects in iron-based superconductors. Scientific Reports, 2021, 11, 5818.	3.3	17
7	Electronic transport properties and hydrostatic pressure effect of $\text{FeSe}_{0.67}\text{Te}_{0.33}$ single crystals free of phase separation. Superconductor Science and Technology, 2021, 34, 055006.	3.5	12
8	Trapping a magnetic field of 14.8 T using stacked coated conductors of 12 mm width. Superconductor Science and Technology, 2021, 34, 065004.	3.5	6
9	Effect of Controlled Artificial Disorder on the Magnetic Properties of $\text{EuFe}_2(\text{As}_{1-x}\text{Px})_2$ Ferromagnetic Superconductor. Materials, 2021, 14, 3267.	2.9	4
10	Comparative study of superconducting and normal-state anisotropy in $\text{Fe}(\text{As}_{1-x}\text{Px})_2$ superconductors with controlled amounts of interstitial excess Fe. Physical Review B, 2021, 103, .	3.2	1
11	Fabrication and Characterization of $(\text{Ba},\text{Na})\text{Fe}_2\text{As}_2$ Wires and Tapes. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.7	5
12	Fabrication of small superconducting coils using $(\text{Ba},\text{A})\text{Fe}_2\text{As}_2$ (A: Na, K) round wires with large critical current densities. Superconductor Science and Technology, 2021, 34, 105008.	3.5	21
13	Critical Current Density and Vortex Dynamics in Pristine and Irradiated $\text{KCa}_2\text{Fe}_4\text{As}_4\text{F}_2$. Materials, 2021, 14, 5283.	2.9	2
14	Fabrications and evaluations of critical current density of $(\text{Ba},\text{Na})\text{Fe}_2\text{As}_2$ HIP round wires. Physica C: Superconductivity and Its Applications, 2020, 568, 1353580.	1.2	6
15	Fully gapped superconductivity without sign reversal in the topological superconductor PbTaSe_2 . Physical Review B, 2020, 102, .	3.2	2
16	Imaging the effect of drive on the low-field vortex melting phenomenon in a $\text{Ba}_{0.6}\text{K}_{0.4}\text{Fe}_2\text{As}_2$ single crystal. Physical Review B, 2020, 101, .	3.2	1
17	Effects of 6 MeV proton irradiation on the vortex ensemble in $\text{BaFe}(\text{As}_{1-x}\text{Px})_2$ revealed through m. Physical Review B, 2020, 101, .	3.2	4
18	Achieving the depairing limit along the c axis in $\text{Fe}_{1+y}\text{Te}_{1-x}\text{S}_x$ single crystals. Physical Review B, 2020, 101, .	3.2	10

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19	Low-field vortex melting in a single crystal of Ba _{0.6} K _{0.4} Fe ₂ As ₂ . Physical Review B, 2020, 101, .	3.2	3
20	Enhancement of critical current density in (Ba,Na)Fe ₂ As ₂ round wires using high-pressure sintering. Superconductor Science and Technology, 2020, 33, 065001.	3.5	20
21	Twofold role of columnar defects in iron based superconductors. Superconductor Science and Technology, 2020, 33, 094012.	3.5	15
22	Effects of proton irradiation on the magnetic superconductor EuFe ₂ (As _{1-x}) ₂ Ti ₂ O ₁₀ . Superconductor Science and Technology, 2020, 33, 094012.	3.5	13
23	Developments of (Ba,Na)Fe ₂ As ₂ and CaKFe ₄ As ₄ HIP round wires. Superconductor Science and Technology, 2020, 33, 104001.	3.5	14
24	Anisotropic physical properties and large critical current density in K _{1-x} Ca _x Fe ₂ As ₂ single crystal. Physical Review Materials, 2020, 4, .	3.5	14
25	Effects of Asymmetric Splayed Columnar Defects on the Anomalous Peak Effect in Ba _{0.6} K _{0.4} Fe ₂ As ₂ . Journal of the Physical Society of Japan, 2020, 89, 094705.	1.6	5
26	Deviation from Canonical Collective Creep Behavior in Li _{0.8} Fe _{0.2} OHFeSe. Journal of the Physical Society of Japan, 2019, 88, 034703.	1.6	11
27	Review of annealing effects and superconductivity in Fe _{1-x} Te _x superconductors. Superconductor Science and Technology, 2019, 32, 103001.	3.5	45
28	Quasiparticle Evidence for the Nematic State above T_c in Ca _{1-x} Fe _x As ₂ . Physical Review B, 2019, 100, 020501.	7.8	32
29	Reemergence of superconductivity by 4d transition-metal Pd doping in over-doped 112-type iron pnictide superconductors Ca _{0.755} La _{0.245} FeAs ₂ . New Journal of Physics, 2019, 21, 093015.	2.9	7
30	Recent Progress of Iron-Based Superconducting Round Wires. Journal of Physics: Conference Series, 2019, 1293, 012042.	0.4	3
31	Demonstration of Excellent J_c Performance in (AE,Na)Fe ₂ As ₂ (AE: Sr, Ba) PIT Wires. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	9
32	Large and significantly anisotropic critical current density induced by planar defects in CaKFe ₄ As ₄ single crystals. Physical Review B, 2019, 99, .	3.2	42
33	Multiple topological states in iron-based superconductors. Nature Physics, 2019, 15, 41-47.	16.7	170
34	Field-driven transition in the Ba _{1-x} K _x Fe ₂ As ₂ superconductor with splayed columnar defects. Physical Review B, 2018, 97, .	3.2	42
35	Manipulating superconducting phases via current-driven magnetic states in rare-earth-doped CaFe ₂ As ₂ . NPC Asia Materials, 2018, 10, 156-162.	7.9	2
36	Improvements of fabrication processes and enhancement of critical current densities in (Ba,K)Fe ₂ As ₂ HIP wires and tapes. Superconductor Science and Technology, 2018, 31, 055016.	3.5	59

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37	Fabrication and characterization of CaKFe ₄ As ₄ round wires sintered at high pressure. Applied Physics Express, 2018, 11, 123101.	2.4	22
38	Promising critical current density characteristics of Ag-sheathed (Sr,Na)Fe ₂ As ₂ tape. Applied Physics Express, 2018, 11, 063101.	2.4	11
39	Domain Meissner state and spontaneous vortex-antivortex generation in the ferromagnetic superconductor EuFe ₂ (As _{0.79} P _{0.21}) ₂ . Science Quasiparticle scattering in 0.6 MeV proton irradiated BaFe ₂	10.3	54
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55	Magneto-optical characterizations of FeTe _{0.5} Se _{0.5} thin films with critical current density over 1 MA cm ⁻² . Superconductor Science and Technology, 2015, 28, 015010.	3.5	7
56	Evolution of superconducting and transport properties in annealed FeTe _{1-x} Se _x (0.1 ≤ x ≤ 0.4) multiband superconductors. Superconductor Science and Technology, 2015, 28, 044002.	3.5	17
57	Critical current density and vortex dynamics in pristine and proton-irradiated Ba _{0.6} K _{0.4} Fe ₂ As ₂ . Superconductor Science and Technology, 2015, 28, 085003.	3.5	52
58	Enhancement of transport critical current density of SmFeAsO _{1-x} F _x tapes fabricated by an ex-situ powder-in-tube method with a Sn-presintering process. Applied Physics Letters, 2014, 104, .	3.3	15
59	Multiband effects and possible Dirac fermions in FeTe _{1-x} Se _x (0.1 ≤ x ≤ 0.4) multiband superconductors. Physical Review B, 2014, 89, .	3.2	43
60	Effects of high-pressure sintering on critical current density in Co-doped BaFe ₂ As ₂ wires. Physica C: Superconductivity and Its Applications, 2014, 504, 73-76.	1.2	4
61	Enhancement of critical current densities by high-pressure sintering in (Sr,K)Fe ₂ As ₂ PIT wires. Superconductor Science and Technology, 2014, 27, 095002.	3.5	34
62	Bulk Superconductivity in Fe _{1-x} Te _{0.6} Se _{0.4} Induced by Removal of Excess Fe. Journal of the Physical Society of Japan, 2014, 83, 064704.	1.6	22
63	Dynamics and mechanism of oxygen annealing in Fe _{1+y} Te _{0.6} Se _{0.4} single crystal. Scientific Reports, 2014, 4, 4585.	3.3	79
64	Evolution of Superconductivity in Fe _{1+y} Te _{1-x} Se _x Annealed in Te Vapor. Journal of the Physical Society of Japan, 2013, 82, 093705.	1.6	25
65	Specific Heat and Upper Critical Field of Sc ₅ Ir ₄ Si ₁₀ Superconductor. Journal of the Physical Society of Japan, 2013, 82, 074713.	1.6	4
66	Large, Homogeneous, and Isotropic Critical Current Density in Oxygen-Annealed Fe _{1+y} Te _{0.6} Se _{0.4} Single Crystal. Applied Physics Express, 2013, 6, 043101.	2.4	39
67	Enhancement of Critical Current Densities in (Ba,K)Fe ₂ As ₂ by 320 MeV Au Irradiation in Single Crystals and by High-Pressure Sintering in Powder-in-Tube Wires. Applied Physics Express, 2013, 6, 043101.	2.4	21
68	Pair-breaking effects induced by 3-MeV proton irradiation in BaKFe ₂ As ₂ single crystal. Applied Physics Express, 2013, 6, 043101.	3.2	43
69	NMR Study of Two-Gap Superconductivity in Lu ₂ Fe ₃ Si ₅ . Journal of the Physical Society of Japan, 2013, 82, 064705.	1.6	3
70	Bulk Superconductivity in Fe _{1-x} Te _{1-x} Se _x Induced by Annealing in Se and S Vapor. Journal of the Physical Society of Japan, 2013, 82, 115002.	1.6	17
71	Anisotropies and Homogeneities of Superconducting Properties in Iron-Platinum-Arsenide Ca ₁₀ (Pt ₃ As ₈)(Fe _{1.79} Pt _{0.21} As ₂) ₅ . Journal of the Physical Society of Japan, 2012, 81, 114723.		
72	Growth and characterization of n-type electron-induced ferromagnetic semiconductor (In,Fe)As. Applied Physics Letters, 2012, 101, .	3.3	78

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73	Superconducting properties and magneto-optical imaging of Ba _{0.6} K _{0.4} Fe ₂ As ₂ PIT wires with Ag addition. Superconductor Science and Technology, 2012, 25, 035019. Enhancement of critical current density and vortex activation energy in proton-irradiated	3.5	24
74	Co-doped BaFe_2As_2 Effects of particle irradiations on vortex states in iron-based superconductors. Physical Review B, 2012, 86, .	3.2	62
75	Two-band superconductivity featuring different anisotropies in the ternary iron silicide Lu	3.5	95
76	LuFe_3Si_2	3.2	21
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91	A one-dimensional chain state of vortex matter. Nature, 2001, 414, 728-731.	27.8	169
92	'Inverse' melting of a vortex lattice. Nature, 2001, 411, 451-454.	27.8	262
93	Imaging the vortex-lattice melting process in the presence of disorder. Nature, 2000, 406, 282-287.	27.8	212
94	Transport properties governed by surface barriers in Bi ₂ Sr ₂ CaCu ₂ O ₈ . Nature, 1998, 391, 373-376.	27.8	126
95	Relation between the peak effect and the magnetization step in Bi ₂ Sr ₂ CaCu ₂ O _y . Journal of Low Temperature Physics, 1996, 105, 1011-1016.	1.4	12