

Toshihiro Taen

List of Publications by Year in descending order

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52
papers

1,516
citations

377584

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docs citations

52
times ranked

1204
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermoelectric Hall Effect at High-Magnetic-Field Quantum Limit in Graphite as a Nodal-Line Semimetal. Journal of the Physical Society of Japan, 2022, 91, .	0.7	1
2	Critical Current Density and Vortex Dynamics in Pristine and Irradiated KCa ₂ Fe ₄ As ₄ F ₂ . Materials, 2021, 14, 5283.	1.3	2
3	Thickness-dependent phase transition in graphite under high magnetic field. Physical Review B, 2018, 97, .	1.1	10
4	Double carrier transport in electron-doped region in black phosphorus FET. Applied Physics Letters, 2018, 113, .	1.5	6
5	Tunable magnetoresistance in thin-film graphite field-effect transistor by gate voltage. Physical Review B, 2018, 98, .	1.1	6
6	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.	1.8	17
7	Effects of heavy-ion irradiations in K-doped BaFe ₂ As ₂ . Physica C: Superconductivity and Its Applications, 2015, 518, 47-50.	0.6	19
8	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.	1.8	52
9	Electronic Structure and the Properties of Phosphorene and Few-Layer Black Phosphorus. Journal of the Physical Society of Japan, 2015, 84, 121004.	0.7	67
10	Evidence of anisotropic vortex pinning by intrinsic and irradiation-induced defects in Ba(Fe,Co) ₂ As ₂ studied by quantitative magneto-optical imaging. Superconductor Science and Technology, 2014, 27, 044014.	1.8	14
11	Multiband effects and possible Dirac fermions in Fe _{1-x} Te _{0.64} Se _{0.4} . Physical Review B, 2014, 89, .		
12	Chalcogen (O ₂ , S, Se, Te) atmosphere annealing induced bulk superconductivity in Fe ₁ +Te _{1-x} Se single crystal. Physica C: Superconductivity and Its Applications, 2014, 504, 12-15.	0.6	6
13	Observation of lock-in phenomena in heavy-ion-irradiated single crystal of Ba(Fe _{0.93} Co _{0.07}) ₂ As ₂ . Physical Review B, 2014, 89, .	1.1	6
14	The Effect of 320 MeV Au Irradiation in K-doped Ba-122. Physics Procedia, 2014, 58, 122-125.	1.2	7
15	Dynamics and mechanism of oxygen annealing in Fe _{1+y} Te _{0.6} Se _{0.4} single crystal. Scientific Reports, 2014, 4, 4585.	1.6	79
16	Quantitative Magneto-Optical Imaging of Supercurrents in Heavy-Ion Irradiated Cuprate and Pnictide Superconductors. Journal of Superconductivity and Novel Magnetism, 2013, 26, 2063-2067.	0.8	0
17	Effects of irradiation-particle energy on critical current density in Co-doped BaFe ₂ As ₂ . Physica C: Superconductivity and Its Applications, 2013, 484, 62-65.	0.6	7
18	Critical current density and vortex dynamics in pristine and proton-irradiated (Ba,K)Fe ₂ As ₂ . Physica C: Superconductivity and Its Applications, 2013, 494, 106-108.	0.6	35

#	ARTICLE	IF	CITATIONS
19	Superconducting properties of iron-platinum arsenides $\text{Ca}_{10}(\text{PtAs}_8)(\text{Fe}_{2-x}\text{Pt}_x\text{As}_2)_5$ ($n=3, 4$). <i>Physica C: Superconductivity and Its Applications</i> , 2013, 494, 65-68.	0.6	5
20	Evolution of Superconductivity in $\text{Fe}_{1+y}\text{Te}_{1-x}\text{Se}_x$ Annealed in Te Vapor. <i>Journal of the Physical Society of Japan</i> , 2013, 82, 093705.	0.7	25
21	Magnetic relaxation and collective vortex creep in $\text{FeTe}_{0.6}\text{Se}_{0.4}$ single crystal. <i>Europhysics Letters</i> , 2013, 103, 57013.	0.7	36
22	Large, Homogeneous, and Isotropic Critical Current Density in Oxygen-Annealed $\text{Fe}_{1+y}\text{Te}_{0.6}\text{Se}_{0.4}$ Single Crystal. <i>Applied Physics Express</i> , 2013, 6, 043101.	1.1	39
23	Enhancement of Critical Current Densities in $(\text{Ba},\text{K})\text{Fe}_2\text{As}_2$ by 320 MeV Au Irradiation in Single Crystals and by High-Pressure Sintering in Powder-in-Tube Wires. <i>Applied Physics Express</i> , 2013, 6, 043101.	1.1	21
24	Pair-breaking effects induced by 3-MeV proton irradiation in $\text{BaKFe}_2\text{As}_2$. <i>Applied Physics Express</i> , 2013, 6, 043101.	1.1	43
25	Magneto-Optical Characterization of Iron-Based Superconducting Wires and Tapes. <i>IEEE Transactions on Applied Superconductivity</i> , 2013, 23, 7300304-7300304.	1.1	9
26	Effects of annealing, acid and alcoholic beverages on $\text{Fe}_{1+y}\text{Te}_{0.6}\text{Se}_{0.4}$. <i>Superconductor Science and Technology</i> , 2013, 26, 015015.	1.8	51
27	Bulk Superconductivity in $\text{Fe}_{1+y}\text{Te}_{1-x}\text{Se}_x$ Induced by Annealing in Se and S Vapor. <i>Journal of the Physical Society of Japan</i> , 2013, 82, 115002.	0.7	17
28	Magneto-optical imaging and transport properties of FeSe superconducting tapes prepared by the diffusion method. <i>Superconductor Science and Technology</i> , 2012, 25, 025003.	1.8	23
29	Anisotropies and Homogeneities of Superconducting Properties in Iron-platinum Arsenide $\text{Ca}_{10}(\text{Pt}_3\text{As}_8)(\text{Fe}_{1.79}\text{Pt}_{0.21}\text{As}_2)_5$. <i>Journal of the Physical Society of Japan</i> , 2012, 81, 114723.		
30	Enhancement of critical current density and vortex activation energy in proton-irradiated Co-doped BaFe_2As_2 . <i>Physical Review B</i> , 2012, 86, .	1.1	62
31	FeSe superconducting tapes with a high critical current density fabricated by diffusion method. <i>Journal of Physics: Conference Series</i> , 2012, 400, 022016.	0.3	1
32	Vortex phase diagram of pristine and irradiated Co-doped BaFe_2As_2 . <i>Journal of Physics: Conference Series</i> , 2012, 400, 022122.	0.3	0
33	Effects of swift Xe irradiation in $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ single crystals. <i>Journal of Physics: Conference Series</i> , 2012, 400, 022119.	0.3	1
34	Effects of particle irradiations on vortex states in iron-based superconductors. <i>Superconductor Science and Technology</i> , 2012, 25, 084008.	1.8	95
35	Magneto-transport properties of iron-platinum arsenide $\text{Ca}_{10}(\text{Pt}_3\text{As}_8)(\text{Fe}_{1.79}\text{Pt}_{0.21}\text{As}_2)_5$. <i>Journal of the Physical Society of Japan</i> , 2012, 81, 114723.		

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37	Magneto-optical imaging of polycrystalline $\text{FeTe}_{1-x}\text{Se}_x$ prepared at various conditions. Physica C: Superconductivity and Its Applications, 2011, 471, 651-655.	0.6	5
38	Low-field anomaly of vortex dynamics in iron-pnictide superconductors. Physica C: Superconductivity and Its Applications, 2011, 471, 777-780.	0.6	5
39	Vortex dynamics in proton irradiated Co-doped BaFe_2As_2 . Physica C: Superconductivity and Its Applications, 2011, 471, 784-786.	0.6	16
40	Characterization of epitaxial Co-doped BaFe_2As_2 thin films. Physica C: Superconductivity and Its Applications, 2011, 471, 1181-1184.	0.6	5
41	Low-temperature synthesis of $\text{FeTe}_{0.5}\text{Se}_{0.5}$ polycrystals with a high transport critical current density. Superconductor Science and Technology, 2011, 24, 075025.	1.8	29
42	Effects of heavy-ion irradiation on the vortex state in $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$. Physica C: Superconductivity and Its Applications, 2010, 470, S360-S362.	0.6	1
43	Critical Current Densities and Vortex Dynamics in $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ Single Crystals. Journal of Superconductivity and Novel Magnetism, 2010, 23, 605-608.	0.8	0
44	Doping dependence of magnetic and transport properties in single crystalline Co-doped BaFe_2As_2 . Physica C: Superconductivity and Its Applications, 2010, 470, S408-S410.	0.6	8
45	Characterization of superconductivity in $\text{FeTe}_{0.61}\text{Se}_{0.39}$ single crystal with $T_c \approx 14$ K. Physica C: Superconductivity and Its Applications, 2010, 470, S391-S393.	0.6	7
46	Critical current densities and flux creep rate in Co-doped BaFe_2As_2 with columnar defects introduced by heavy-ion irradiation. Physica C: Superconductivity and Its Applications, 2010, 470, 1103-1105.	0.6	3
47	Critical current densities and vortex dynamics in $\text{FeTe}_x\text{Se}_{1-x}$ single crystals. Physica C: Superconductivity and Its Applications, 2010, 470, 1106-1108.	0.6	22
48	Transport and magnetic properties of Co-doped BaFe_2As_2 epitaxial thin films grown on MgO substrate. Superconductor Science and Technology, 2010, 23, 105016.	1.8	19
49	Suppression of the critical temperature of superconducting $\text{Ba}_{1-x}\text{Co}_x\text{Fe}_2\text{As}_2$. Physical Review B, 2010, 82, 020407.	1.1	118
50	Possible Superconductivity above 25 K in Single-Crystalline Co-Doped BaFe_2As_2 . Journal of the Physical Society of Japan, 2009, 78, 023702.	0.7	97
51	Superconductivity at $T_c \approx 28$ K in Single-Crystalline $\text{Ba}_{1-x}\text{Co}_x\text{Fe}_2\text{As}_2$. Physical Review B, 2009, 80, 020407.	1.1	182
52	Enhancement of critical current density in Co-doped BaFe_2As_2 with columnar defects introduced by heavy-ion irradiation. Physical Review B, 2009, 80, 020407.	1.1	150