

Toshihiro Taen

List of Publications by Citations

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50
papers

1,307
citations

19
h-index

35
g-index

52
ext. papers

1,383
ext. citations

2.1
avg, IF

4.21
L-index

#	Paper	IF	Citations
50	Superconductivity at $T_c \sim 14$ K in single-crystalline $\text{FeTe}_{0.61}\text{Se}_{0.39}$. <i>Physical Review B</i> , 2009 , 80,	3.3	162
49	Enhancement of critical current density in Co-doped BaFe_2As_2 with columnar defects introduced by heavy-ion irradiation. <i>Physical Review B</i> , 2009 , 80,	3.3	133
48	Suppression of the critical temperature of superconducting $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ by point defects from proton irradiation. <i>Physical Review B</i> , 2010 , 82,	3.3	109
47	Possible Superconductivity above 25 K in Single-Crystalline Co-Doped BaFe_2As_2 . <i>Journal of the Physical Society of Japan</i> , 2009 , 78, 023702	1.5	96
46	Effects of particle irradiations on vortex states in iron-based superconductors. <i>Superconductor Science and Technology</i> , 2012 , 25, 084008	3.1	80
45	Dynamics and mechanism of oxygen annealing in $\text{Fe}_{1+y}\text{Te}_{0.6}\text{Se}_{0.4}$ single crystal. <i>Scientific Reports</i> , 2014 , 4, 4585	4.9	64
44	Enhancement of critical current density and vortex activation energy in proton-irradiated Co-doped BaFe_2As_2 . <i>Physical Review B</i> , 2012 , 86,	3.3	57
43	Electronic Structure and the Properties of Phosphorene and Few-Layer Black Phosphorus. <i>Journal of the Physical Society of Japan</i> , 2015 , 84, 121004	1.5	49
42	Critical current density and vortex dynamics in pristine and proton-irradiated $\text{Ba}_{0.6}\text{K}_{0.4}\text{Fe}_2\text{As}_2$. <i>Superconductor Science and Technology</i> , 2015 , 28, 085003	3.1	43
41	Multiband effects and possible Dirac fermions in $\text{Fe}_{1+y}\text{Te}_{0.6}\text{Se}_{0.4}$. <i>Physical Review B</i> , 2014 , 89,	3.3	43
40	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	3.1	43
39	Pair-breaking effects induced by 3-MeV proton irradiation in $\text{Ba}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$. <i>Physical Review B</i> , 2013 , 88,	3.3	38
38	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	2.4	37
37	Magnetic relaxation and collective vortex creep in $\text{FeTe}_{0.6}\text{Se}_{0.4}$ single crystal. <i>Europhysics Letters</i> , 2013 , 103, 57013	1.6	28
36	Low-temperature synthesis of $\text{FeTe}_{0.5}\text{Se}_{0.5}$ polycrystals with a high transport critical current density. <i>Superconductor Science and Technology</i> , 2011 , 24, 075025	3.1	24
35	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	1.5	22
34	Magneto-optical imaging and transport properties of FeSe superconducting tapes prepared by the diffusion method. <i>Superconductor Science and Technology</i> , 2012 , 25, 025003	3.1	22

33	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. <i>Applied Physics Express</i> , 2013 , 6, 123101-4	2.4	20
32	Critical current densities and vortex dynamics in FeTe _x Se _{1-x} single crystals. <i>Physica C: Superconductivity and Its Applications</i> , 2010 , 470, 1106-1108	1.3	20
31	Magnetic and transport properties of iron-platinum arsenide Ca ₁₀ (Pt _{4-x} As ₈)(Fe _{2-x} PtxAs ₂) ₅ single crystal. <i>Physical Review B</i> , 2012 , 85,	3.3	19
30	Transport and magnetic properties of Co-doped BaFe ₂ As ₂ epitaxial thin films grown on MgO substrate. <i>Superconductor Science and Technology</i> , 2010 , 23, 105016	3.1	18
29	Effects of heavy-ion irradiations in K-doped BaFe ₂ As ₂ . <i>Physica C: Superconductivity and Its Applications</i> , 2015 , 518, 47-50	1.3	17
28	Bulk Superconductivity in Fe _{1+y} Te _{1-x} Se _x Induced by Annealing in Se and S Vapor. <i>Journal of the Physical Society of Japan</i> , 2013 , 82, 115002	1.5	16
27	Vortex dynamics in proton irradiated Co-doped BaFe ₂ As ₂ . <i>Physica C: Superconductivity and Its Applications</i> , 2011 , 471, 784-786	1.3	16
26	Evidence of anisotropic vortex pinning by intrinsic and irradiation-induced defects in Ba(Fe,Co) ₂ As ₂ studied by quantitative magneto-optical imaging. <i>Superconductor Science and Technology</i> , 2014 , 27, 044014	3.1	14
25	Evolution of superconducting and transport properties in annealed FeTe _{1-x} Se _x (0.1 ≤ x ≤ 0.4) multiband superconductors. <i>Superconductor Science and Technology</i> , 2015 , 28, 044002	3.1	12
24	Magneto-Optical Characterization of Iron-Based Superconducting Wires and Tapes. <i>IEEE Transactions on Applied Superconductivity</i> , 2013 , 23, 7300304-7300304	1.8	9
23	Thickness-dependent phase transition in graphite under high magnetic field. <i>Physical Review B</i> , 2018 , 97,	3.3	8
22	The Effect of 320 MeV Au Irradiation in K-doped Ba-122. <i>Physics Procedia</i> , 2014 , 58, 122-125		7
21	Effects of irradiation-particle energy on critical current density in Co-doped BaFe ₂ As ₂ . <i>Physica C: Superconductivity and Its Applications</i> , 2013 , 484, 62-65	1.3	7
20	Doping dependence of magnetic and transport properties in single crystalline Co-doped BaFe ₂ As ₂ . <i>Physica C: Superconductivity and Its Applications</i> , 2010 , 470, S408-S410	1.3	7
19	Chalcogen (O ₂ , S, Se, Te) atmosphere annealing induced bulk superconductivity in Fe _{1+Te} Be single crystal. <i>Physica C: Superconductivity and Its Applications</i> , 2014 , 504, 12-15	1.3	6
18	Characterization of superconductivity in FeTe _{0.61} Se _{0.39} single crystal with T _c ~ 14 K. <i>Physica C: Superconductivity and Its Applications</i> , 2010 , 470, S391-S393	1.3	6
17	Double carrier transport in electron-doped region in black phosphorus FET. <i>Applied Physics Letters</i> , 2018 , 113, 193101	3.4	6
16	Observation of lock-in phenomena in heavy-ion-irradiated single crystal of Ba(Fe _{0.93} Co _{0.07}) ₂ As ₂ . <i>Physical Review B</i> , 2014 , 89,	3.3	5

15	Superconducting properties of iron-platinum-arsenides $\text{Ca}_{10}(\text{Pt}_n\text{As}_8)(\text{Fe}_{2-x}\text{Pt}_x\text{As}_2)_5$ ($n=3, 4$). <i>Physica C: Superconductivity and Its Applications</i> , 2013 , 494, 65-68	1.3	5
14	Magneto-optical imaging of polycrystalline $\text{FeTe}_{1-x}\text{Sex}$ prepared at various conditions. <i>Physica C: Superconductivity and Its Applications</i> , 2011 , 471, 651-655	1.3	5
13	Low-field anomaly of vortex dynamics in iron-pnictide superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2011 , 471, 777-780	1.3	5
12	Characterization of epitaxial Co-doped BaFe_2As_2 thin films. <i>Physica C: Superconductivity and Its Applications</i> , 2011 , 471, 1181-1184	1.3	5
11	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	1.5	5
10	Critical current density and vortex dynamics in pristine and proton-irradiated $(\text{Ba},\text{K})\text{Fe}_2\text{As}_2$. <i>Physica C: Superconductivity and Its Applications</i> , 2013 , 494, 106-108	1.3	4
9	H^+ irradiation effect in Co-doped BaFe_2As_2 single crystals. <i>Physica C: Superconductivity and Its Applications</i> , 2011 , 471, 647-650	1.3	4
8	Tunable magnetoresistance in thin-film graphite field-effect transistor by gate voltage. <i>Physical Review B</i> , 2018 , 98,	3.3	4
7	Critical current densities and flux creep rate in Co-doped BaFe_2As_2 with columnar defects introduced by heavy-ion irradiation. <i>Physica C: Superconductivity and Its Applications</i> , 2010 , 470, 1103-1105	1.3	3
6	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
5	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
4	Effects of heavy-ion irradiation on the vortex state in $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$. <i>Physica C: Superconductivity and Its Applications</i> , 2010 , 470, S360-S362	1.3	1
3	Quantitative Magneto-Optical Imaging of Supercurrents in Heavy-Ion Irradiated Cuprate and Pnictide Superconductors. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013 , 26, 2063-2067	1.5	
2	Vortex phase diagram of pristine and irradiated Co-doped BaFe_2As_2 . <i>Journal of Physics: Conference Series</i> , 2012 , 400, 022122	0.3	
1	Critical Current Densities and Vortex Dynamics in $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ Single Crystals. <i>Journal of Superconductivity and Novel Magnetism</i> , 2010 , 23, 605-608	1.5	