

Toshihiro Taen

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

1,516
citations

331538

21
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302012

39
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52
all docs

52
docs citations

52
times ranked

1096
citing authors

#	ARTICLE	IF	CITATIONS
1	Superconductivity at $T_c \sim 14$ K in single-crystalline $\text{FeTe}_{1-x}\text{Se}_x$. <i>Physical Review B</i> , 2009, 80, 020408.	1.1	182
2	Enhancement of critical current density in Co-doped BaFe_2As_2 columnar defects introduced by heavy-ion irradiation. <i>Physical Review B</i> , 2009, 80, 020408.	1.1	150
3	Suppression of the critical temperature of superconducting BaFe_2As_2 . <i>Physical Review B</i> , 2010, 82, 020408.	1.1	118
4	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.	0.7	97
5	Effects of particle irradiations on vortex states in iron-based superconductors. <i>Superconductor Science and Technology</i> , 2012, 25, 084008.	1.8	95
6	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.	1.6	79
7	Electronic Structure and the Properties of Phosphorene and Few-Layer Black Phosphorus. <i>Journal of the Physical Society of Japan</i> , 2015, 84, 121004.	0.7	67
8	Enhancement of critical current density and vortex activation energy in proton-irradiated Co-doped BaFe_2As_2 . <i>Physical Review B</i> , 2012, 86, 020408.	1.1	62
9	Multiband effects and possible Dirac fermions in $\text{FeTe}_{1-x}\text{Se}_x$. <i>Physical Review B</i> , 2014, 89, 020408.	1.1	64
10	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.	1.8	52
11	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> , 2015, 28, 085003.	1.8	51
12	Pair-breaking effects induced by 3-MeV proton irradiation in $\text{BaKFe}_2\text{As}_2$. <i>Physical Review B</i> , 2014, 89, 020408.	1.1	43
13	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
14	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
15	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.	0.6	35
16	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.	1.8	29
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Critical current densities and vortex dynamics in FeTe _{1-x} Se _x single crystals. Physica C: Superconductivity and Its Applications, 2010, 470, 1106-1108. Magnetic and transport properties of iron-platinum arsenide Ca	0.6	22

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#	ARTICLE	IF	CITATIONS
37	Double carrier transport in electron-doped region in black phosphorus FET. Applied Physics Letters, 2018, 113, .	1.5	6
38	Tunable magnetoresistance in thin-film graphite field-effect transistor by gate voltage. Physical Review B, 2018, 98, .	1.1	6
39	Magneto-optical imaging of polycrystalline FeTe $_{1-x}$ Sex prepared at various conditions. Physica C: Superconductivity and Its Applications, 2011, 471, 651-655.	0.6	5
40	Low-field anomaly of vortex dynamics in iron-pnictide superconductors. Physica C: Superconductivity and Its Applications, 2011, 471, 777-780.	0.6	5
41	Characterization of epitaxial Co-doped BaFe $_{2}$ As $_{2}$ thin films. Physica C: Superconductivity and Its Applications, 2011, 471, 1181-1184.	0.6	5
42	Superconducting properties of iron-platinum-arsenides Ca $_{10}$ (PtnAs $_{8}$)(Fe $_{2-x}$ PtxAs $_{2}$) $_{5}$ (n=3, 4). Physica C: Superconductivity and Its Applications, 2013, 494, 65-68.	0.6	5
43	H $^{+}$ irradiation effect in Co-doped BaFe $_{2}$ As $_{2}$ single crystals. Physica C: Superconductivity and Its Applications, 2011, 471, 647-650.	0.6	4
44	Critical current densities and flux creep rate in Co-doped BaFe $_{2}$ As $_{2}$ with columnar defects introduced by heavy-ion irradiation. Physica C: Superconductivity and Its Applications, 2010, 470, 1103-1105.	0.6	3
45	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
46	Effects of heavy-ion irradiation on the vortex state in Ba(Fe $_{1-x}$ Co $_{x}$) $_{2}$ As $_{2}$. Physica C: Superconductivity and Its Applications, 2010, 470, S360-S362.	0.6	1
47	FeSe superconducting tapes with a high critical current density fabricated by diffusion method. Journal of Physics: Conference Series, 2012, 400, 022016.	0.3	1
48	Effects of swift Xe irradiation in Ba(Fe $_{1-x}$ Co $_{x}$) $_{2}$ As $_{2}$ single crystals. Journal of Physics: Conference Series, 2012, 400, 022119.	0.3	1
49	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
50	Critical Current Densities and Vortex Dynamics in Ba(Fe $_{1-x}$ Co $_{x}$) $_{2}$ As $_{2}$ Single Crystals. Journal of Superconductivity and Novel Magnetism, 2010, 23, 605-608.	0.8	0
51	Vortex phase diagram of pristine and irradiated Co-doped BaFe $_{2}$ As $_{2}$. Journal of Physics: Conference Series, 2012, 400, 022122.	0.3	0
52	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