

# Tuson Park

## List of Publications by Year in descending order

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Version: 2024-02-01

102  
papers

2,846  
citations

218677

26  
h-index

175258

52  
g-index

108  
all docs

108  
docs citations

108  
times ranked

3298  
citing authors

#	ARTICLE	IF	CITATIONS
1	Improvement of bulk superconducting current capability of MgB <sub>2</sub> films using surface degradation. Scripta Materialia, 2022, 209, 114424.	5.2	7
2	Influence of disorder strength on the superconducting mechanism of MgB <sub>2</sub> . Superconductor Science and Technology, 2022, 35, 015001.	3.5	4
3	Mixed-state Hall scaling behavior and vortex phase diagram in $\text{FeSe}_{1-x}\text{Te}_x$ thin films. Physical Review B, 2022, 105, .		
4	Field-induced multiple quantum phase transitions in the antiferromagnetic Kondo-lattice compound $\text{CeRhAl}$ . Physical Review B, 2022, 105, .	3.2	1
5	Ce site dilution effects in the antiferromagnetic heavy fermion $\text{CeIn}_3$ . Physical Review Materials, 2022, 6, .		
6	High critical current density and high-tolerance superconductivity in high-entropy alloy thin films. Nature Communications, 2022, 13, .	12.8	21
7	Probing superconducting gap of the high-entropy alloy $\text{Ta}_{1-x}\text{Ni}_x$ . Physical Review B, 2022, 106, .		
8	Crystalline symmetry-dependent magnon formation in the itinerant ferromagnet $\text{SrRuO}_3$ . Physical Review B, 2021, 103, .	3.2	7
9	Effects of surface damage on critical current density in MgB <sub>2</sub> thin films. Current Applied Physics, 2021, 22, 14-19.	2.4	6
10	High mobility field-effect transistors based on MoS <sub>2</sub> crystals grown by the flux method. Nanotechnology, 2021, 32, 325603.	2.6	3
11	Tuning the charge density wave quantum critical point and the appearance of superconductivity in $\text{TiSe}_4$ . Physical Review Research, 2021, 3, .	3.6	4
12	Field-induced quantum breakdown of superconductivity in magnesium diboride. NPG Asia Materials, 2021, 13, .	7.9	1
13	Transport and calorimetry study of 20% La-doped $\text{CeIn}_3$ . Journal of Physics Condensed Matter, 2021, 33, 065604.	1.8	1
14	Band gap, dielectric constant, and susceptibility of DNA layers as controlled by vanadium ion concentration. Nanotechnology, 2020, 31, 085705.	2.6	2
15	Superconducting phases in $\text{U}_2\text{R}_2\text{Fe}_2\text{S}_2$ . Physical Review B, 2020, 102, .	3.2	0
16	Three-dimensional hopping conduction triggered by magnetic ordering in the quasi-one-dimensional iron-ladder compounds $\text{BaFe}_2\text{S}_3$ and $\text{BaFe}_2\text{Se}_3$ . Physical Review B, 2020, 102, .	3.2	0
17	Magnetic order-driven metal-insulator transitions in the quasi-one-dimensional spin-ladder compounds $\text{BaFe}_2\text{S}_3$ and $\text{BaFe}_2\text{Se}_3$ . Physical Review B, 2020, 102, .	3.2	5
18	Artificially engineered nanostrain in $\text{FeSe}_x\text{Te}_{1-x}$ superconductor thin films for supercurrent enhancement. NPG Asia Materials, 2020, 12, .	7.9	15

#	ARTICLE	IF	CITATIONS
19	Exchange Bias Effect in Ferro-/Antiferromagnetic van der Waals Heterostructures. Nano Letters, 2020, 20, 3978-3985. Evolution of antiferromagnetism in Zn-doped heavy-fermion compound <mml:math	9.1	13

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#	ARTICLE	IF	CITATIONS
37	Thermal annealing and pressure effects on BaFe <sub>2</sub> As <sub>2</sub> single crystals. Journal of Physics Condensed Matter, 2018, 30, 025501.	1.8	0
38	Magnetic studies of Co <sup>2+</sup> , Ni <sup>2+</sup> , and Zn <sup>2+</sup> -modified DNA double-crossover lattices. Applied Surface Science, 2018, 427, 416-421.	6.1	1
39	Origin of extremely large magnetoresistance in the candidate type-II Weyl semimetal MoTe <sub>2</sub> . Scientific Reports, 2018, 8, 13937.	3.3	36
40	Anisotropy dependence of the fluctuation spectroscopy in the critical and gaussian regimes in superconducting NaFe <sub>1-x</sub> Co <sub>x</sub> As single crystals. Scientific Reports, 2018, 8, 8556.	3.3	4
41	Effects of magnetic impurities on upper critical fields in the high-T <sub>c</sub> superconductor La-doped CaFe <sub>2</sub> As <sub>2</sub> . Superconductor Science and Technology, 2017, 30, 085009.	3.5	4
42	Structural and Optical Properties of Single- and Few-Layer Magnetic Semiconductor CrPS <sub>4</sub> . ACS Nano, 2017, 11, 10935-10944.	14.6	85
43	Doping dependence of the vortex dynamics in single-crystal superconducting NaFe <sub>1-x</sub> Co <sub>x</sub> As. Superconductor Science and Technology, 2017, 30, 105006.	3.5	6
44	Electromagnetic and optical characteristics of Nb <sup>5+</sup> -doped double-crossover and salmon DNA thin films. Nanotechnology, 2017, 28, 405703.	2.6	14
45	Superconductivity at 7.4 K in few layer graphene by Li-intercalation. Journal of Physics Condensed Matter, 2017, 29, 445701.	1.8	25
46	Effect of proton irradiation on the fluctuation-induced magnetoconductivity of FeSe <sub>1-x</sub> Te <sub>x</sub> thin films. New Journal of Physics, 2017, 19, 093004.	2.9	10
47	Anisotropic upper critical field in pressure-induced CrAs superconductor. Journal of Applied Physics, 2017, 122, .	2.5	2
48	Pressure dependence of upper critical fields in FeSe single crystals. Superconductor Science and Technology, 2016, 29, 035007.	3.5	6
49	Enhanced critical current density in the pressure-induced magnetic state of the high-temperature superconductor FeSe. Scientific Reports, 2015, 5, 16385.	3.3	25
50	Hidden non-Fermi liquid behavior caused by magnetic phase transition in Ni-doped Ba-122 pnictides. Scientific Reports, 2015, 5, 12156.	3.3	8
51	Fermi surface reconstruction and multiple quantum phase transitions in the antiferromagnet CeRh <sub>5</sub> . Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 673-678.	7.1	67
52	Controlling superconductivity by tunable quantum critical points. Nature Communications, 2015, 6, 6433.	12.8	24
53	Reemergent Superconductivity and Avoided Quantum Criticality in Cd-Doped $CeIrIn_5$ Under Pressure. Physical Review Letters, 2015, 114, 146403.	7.8	17
54	Pressure-tuned quantum criticality in the antiferromagnetic Kondo semimetal CeNi <sub>2</sub> As <sub>2</sub> . Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13520-13524.	7.1	34

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55	Synthesis of the Ni-doped ternary compound Ba(Fe <sub>1-x</sub> Ni <sub>x</sub> ) <sub>2</sub> Se <sub>3</sub> . Progress in Superconductivity and Cryogenics (PSAC), 2015, 17, 30-33.	0.3	2
56	Optical properties of NbCl <sub>5</sub> and ZnMg intercalated graphite compounds. Journal Physics D: Applied Physics, 2014, 47, 485304.	2.8	3
57	Disorder in quantum critical superconductors. Nature Physics, 2014, 10, 120-125.	16.7	57
58	Nanoscale topographical replication of graphene architecture by artificial DNA nanostructures. Applied Physics Letters, 2014, 104, .	3.3	7
59	Synthesis and pressure effects on the La doped CaFe <sub>2</sub> As <sub>2</sub> . Progress in Superconductivity and Cryogenics (PSAC), 2014, 16, 1-3.	0.3	0
60	Textured Superconducting Phase in the Heavy Fermion $CeRhIn_5$ . Physical Review Letters, 2012, 108, 077003.	7.8	38
61	Electronic Tuning and Uniform Superconductivity in $CeCoIn_5$ . Physical Review Letters, 2012, 109, 186402.	7.8	28
62	Pressure effects on the superconducting thin film Ba <sub>1-x</sub> K <sub>x</sub> Fe <sub>2</sub> As <sub>2</sub> . Applied Physics Letters, 2012, 101, 042601.	3.3	9
63	Textured superconductivity in the presence of a coexisting order: Ce115s and other heavy-fermion compounds. Physica C: Superconductivity and Its Applications, 2012, 481, 223-228.	1.2	3
64	Quenching of ferromagnetism in $\hat{I}^2$ -UB <sub>2</sub> C and UNiSi <sub>2</sub> at high pressure. Journal of Physics: Conference Series, 2011, 273, 012014.	0.4	5
65	Unconventional quantum criticality in the pressure-induced heavy-fermion superconductor CeRhIn <sub>5</sub> . Journal of Physics Condensed Matter, 2011, 23, 094218.	1.8	11
66	Field-induced quantum critical point in the pressure-induced superconductor CeRhIn <sub>5</sub> . Physica Status Solidi (B): Basic Research, 2010, 247, 553-556.	1.5	14
67	Pressure-induced superconducting state and effective mass enhancement near the antiferromagnetic quantum critical point of $CePt_2$ . Physical Review B, 2010, 81, .	3.2	48
68	NMR Investigation of Superconductivity and Antiferromagnetism in $CaFe_2As_2$ Pressure. Physical Review Letters, 2009, 102, 227601.	7.8	44
69	Magnetism and superconductivity in strongly correlated CeRhIn <sub>5</sub> . New Journal of Physics, 2009, 11, 055062.	2.9	38
70	Evidence for correlation between spin and charge dynamics in La <sub>2</sub> Cu <sub>1-x</sub> Li <sub>x</sub> O <sub>4</sub> . Journal of Applied Physics, 2009, 105, .	2.5	0
71	Ni <sub>2</sub> X <sub>2</sub> (X=pnictide, chalcogenide, or B) based superconductors. Physica C: Superconductivity and Its Applications, 2009, 469, 396-403.	1.2	56
72	Possible two-band superconductivity in PuRhGa <sub>5</sub> and CeRhIn <sub>5</sub> . Journal of Alloys and Compounds, 2009, 488, 554-557.	5.5	6

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73	Pressure-induced superconducting state of antiferromagnetic $\text{CaFe}_2\text{As}_2$ . Physical Review B, 2009, 80, .	3.2	58
74	Normal state properties at a field-tuned quantum-critical point in the heavy-fermion superconductor. Physica B: Condensed Matter, 2008, 403, 943-945.	2.7	3
75	Isotropic quantum scattering and unconventional superconductivity. Nature, 2008, 456, 366-368.	27.8	94
76	Pressure-induced superconductivity in $\text{CaFe}_2\text{As}_2$ . Journal of Physics Condensed Matter, 2008, 20, 322204.	1.8	170
77	The first order phase transition and superconductivity in $\text{BaNi}_2\text{As}_2$ single crystals. Journal of Physics Condensed Matter, 2008, 20, 342203.	1.8	134
78	Electronic duality in strongly correlated matter. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 6825-6828.	7.1	44
79	Optical evidence for a change in the heavy electron Fermi surface at a magnetic quantum critical point of $\text{CeNi}_1\text{Co}_1\text{Ge}_2$ . Journal of Physics Condensed Matter, 2008, 20, 285202.	1.8	1
80	Probing the Nodal Gap in the Pressure-Induced Heavy Fermion Superconductor $\text{CeRhIn}_5$ . Physical Review Letters, 2008, 101, 177002.	7.8	36
81	Observation of a Continuous Phase Transition in a Shape-Memory Alloy. Physical Review Letters, 2008, 101, 135703.	7.8	27
82	Magnetic structure of Cd-doped $\text{CeCoIn}_5$ . Physical Review B, 2007, 76, .	3.2	74
83	$\text{PuCoGa}_5$ and related materials. Journal of Alloys and Compounds, 2007, 444-445, 19-22.	5.5	7
84	New quantum phase in the heavy fermion superconductor $\text{CeRhIn}_5$ . Physica C: Superconductivity and Its Applications, 2007, 460-462, 137-140.	1.2	1
85	Magnetism and unconventional superconductivity in isostructural cerium and plutonium compounds. Journal of Magnetism and Magnetic Materials, 2007, 310, 532-535.	2.3	7
86	Upper critical field ( $H_{c2}$ ) scaling near a quantum critical point in the heavy-fermion compound. Journal of Magnetism and Magnetic Materials, 2007, 310, 712-714.	2.3	5
87	Progress and Puzzles in Plutonium Superconductors. Journal of the Physical Society of Japan, 2006, 75, 1-3.	1.6	50
88	Hidden magnetism and quantum criticality in the heavy fermion superconductor $\text{CeRhIn}_5$ . Nature, 2006, 440, 65-68.	27.8	412
89	Phase diagram of $\text{ZrZn}_2$ at high pressure: Low-temperature features and elusive superconductivity. Physica B: Condensed Matter, 2006, 378-380, 411-412.	2.7	2
90	Observation of the spontaneous vortex phase in the weakly ferromagnetic superconductor $\text{ErNi}_2\text{B}_2\text{C}$ : A penetration depth study. Europhysics Letters, 2006, 73, 772-778.	2.0	5

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91	Reversible Tuning of the Heavy-Fermion Ground State in CeCoIn <sub>5</sub> . Physical Review Letters, 2006, 97, 056404.	7.8	184
92	Anomalous Pressure Dependence of the Kadowaki-Woods Ratio and Crystal-Field Effects in Mixed-Valence YbInCu <sub>4</sub> . Physical Review Letters, 2006, 96, 046405.	7.8	16
93	Thermal properties of various Kondo ground states in the heavy-fermion system CeNi <sub>1-x</sub> CoxGe <sub>2</sub> . Journal of Physics Condensed Matter, 2005, 17, 2485-2492.	1.8	0
94	Effect of magnetic order on the superfluid response of single-crystal ErNi <sub>2</sub> B <sub>2</sub> C: A penetration depth study. Physical Review B, 2005, 72, .	3.2	8
95	Anomalous paramagnetic effects in the mixed state of LuNi <sub>2</sub> B <sub>2</sub> C. Physical Review B, 2005, 71, .	3.2	10
96	Kondo ground states and non-Fermi-liquid behavior in CeNi <sub>1-x</sub> CoxGe <sub>2</sub> . Physical Review B, 2005, 71, .	3.2	16
97	Novel Dielectric Anomaly in the Hole-Doped La <sub>2</sub> Cu <sub>1-x</sub> LixO <sub>4</sub> and La <sub>2-x</sub> SrxNiO <sub>4</sub> Insulators: Signature of an Electronic Glassy State. Physical Review Letters, 2005, 94, 017002.	7.8	94
98	Specific heat study of the magnetic superconductor HoNi <sub>2</sub> B <sub>2</sub> C. Physical Review B, 2004, 69, .	3.2	25
99	Evidence for the Coexistence of an Anisotropic Superconducting Gap and Nonlocal Effects in the Nonmagnetic Superconductor LuNi <sub>2</sub> B <sub>2</sub> C. Physical Review Letters, 2004, 92, 237002.	7.8	32
100	STUDY ON UNCONVENTIONAL SUPERCONDUCTORS VIA ANGLE-RESOLVED SPECIFIC HEAT. Modern Physics Letters B, 2004, 18, 1205-1223.	1.9	12
101	Evidence for Nodal Quasiparticles in the Nonmagnetic Superconductor YNi <sub>2</sub> B <sub>2</sub> C via Field-Angle-Dependent Heat Capacity. Physical Review Letters, 2003, 90, 177001.	7.8	92
102	Fluctuation study of the specific heat of Mg <sub>11</sub> B <sub>2</sub> . Physical Review B, 2002, 66, .	3.2	15