Tuson Park

List of Publications by Year
in descending order

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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	Hidden magnetism and quantum criticality in the heavy fermion superconductor CeRhIn5. Nature, 2006, 440, 65-68.	27.8	412
2	Hard magnetic properties in nanoflake van der Waals Fe3GeTe2. Nature Communications, 2018, 9, 1554.	12.8	272
3	Reversible Tuning of the Heavy-Fermion Ground State inCeCoIn5. Physical Review Letters, 2006, 97, 056404.	7.8	184
4	Pressure-induced superconductivity in CaFe₂As₂. Journal of Physics Condensed Matter, 2008, 20, 322204.	1.8	170
5	The first order phase transition and superconductivity in BaNi₂As₂single crystals. Journal of Physics Condensed Matter, 2008, 20, 342203.	1.8	134
6	Novel Dielectric Anomaly in the Hole-DopedLa2Cu1âˆ'xLixO4andLa2âˆ'xSrxNiO4Insulators: Signature of an Electronic Glassy State. Physical Review Letters, 2005, 94, 017002.	7.8	94
7	Isotropic quantum scattering and unconventional superconductivity. Nature, 2008, 456, 366-368.	27.8	94
8	Evidence for Nodal Quasiparticles in the Nonmagnetic SuperconductorYNi2B2Cvia Field-Angle-Dependent Heat Capacity. Physical Review Letters, 2003, 90, 177001.	7.8	92
9	Structural and Optical Properties of Single- and Few-Layer Magnetic Semiconductor CrPS₄. ACS Nano, 2017, 11, 10935-10944.	14.6	85
10	Magnetic structure of Cd-doped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">Ce</mml:mi><mml:mi mathvariant="normal">Co</mml:mi><mml:msub><mml:mi mathvariant="normal">In</mml:mi><mml:mn>5</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2007, 76, .	3.2	74
11	Fermi surface reconstruction and multiple quantum phase transitions in the antiferromagnet CeRhIn₅. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 673-678.	7.1	67
12	Pressure-induced superconducting state of antiferromagnetic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>CaFe</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:m Physical Review B, 2009, 80, .	3.2	58
13	Disorder in quantum critical superconductors. Nature Physics, 2014, 10, 120-125.	16.7	57
14	Ni2X2 (X=pnictide, chalcogenide, or B) based superconductors. Physica C: Superconductivity and Its Applications, 2009, 469, 396-403.	1.2	56
15	Progress and Puzzles in Plutonium Superconductors. Journal of the Physical Society of Japan, 2006, 75, 1-3.	1.6	50
16	Pressure-induced superconducting state and effective mass enhancement near the antiferromagnetic quantum critical point of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>CePt</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:ms Physical Review B, 2010, 81, .	3.2	48
17	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
18	NMR Investigation of Superconductivity and Antiferromagnetism in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>CaFe</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>As</mml:mi><mml: Pressure. Physical Review Letters, 2009, 102, 227601.	7.8	44

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19	Magnetism and superconductivity in strongly correlated CeRhIn₅. New Journal of Physics, 2009, 11, 055062.	2.9	38
20	Textured Superconducting Phase in the Heavy Fermion<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>CeRhIn</mml:mi><mml:mn>5</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2012, 108, 077003.	7.8	38
21	Probing the Nodal Gap in the Pressure-Induced Heavy Fermion Superconductor<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>CeRhIn</mml:mi><mml:mn>5</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2008, 101, 177002.	7.8	36
22	Origin of extremely large magnetoresistance in the candidate type-II Weyl semimetal MoTe2â^'x. Scientific Reports, 2018, 8, 13937.	3.3	36
23	Pressure-tuned quantum criticality in the antiferromagnetic Kondo semimetal CeNi _{2â^' Î´} As ₂. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13520-13524.	7.1	34
24	Evidence for the Coexistence of an Anisotropic Superconducting Gap and Nonlocal Effects in the Nonmagnetic SuperconductorLuNi2B2C. Physical Review Letters, 2004, 92, 237002.	7.8	32
25	Electronic Tuning and Uniform Superconductivity in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>CeCoIn</mml:mi><mml:mn>5</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2012, 109, 186402.	7.8	28
26	Observation of a Continuous Phase Transition in a Shape-Memory Alloy. Physical Review Letters, 2008, 101, 135703.	7.8	27
27	Specific heat study of the magnetic superconductorHoNi2B2C. Physical Review B, 2004, 69, .	3.2	25
28	Enhanced critical current density in the pressure-induced magnetic state of the high-temperature superconductor FeSe. Scientific Reports, 2015, 5, 16385.	3.3	25
29	Superconductivity at 7.4â€‰K in few layer graphene by Li-intercalation. Journal of Physics Condensed Matter, 2017, 29, 445701.	1.8	25
30	Controlling superconductivity by tunable quantum critical points. Nature Communications, 2015, 6, 6433.	12.8	24
31	High critical current density and high-tolerance superconductivity in high-entropy alloy thin films. Nature Communications, 2022, 13, .	12.8	21
32	Enhanced magnetic and thermoelectric properties in epitaxial polycrystalline SrRuO₃ thin films. Nanoscale, 2018, 10, 4377-4384.	5.6	19
33	Reemergent Superconductivity and Avoided Quantum Criticality in Cd-Doped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>CeIrIn</mml:mi></mml:mrow><mml:mrow><mml:mn>5</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> Pressure. Physical Review Letters, 2015, 114, 146403.	7.8	17
34	Kondo ground states and non-Fermi-liquid behavior inCeNi1â^'xCoxGe2. Physical Review B, 2005, 71, .	3.2	16
35	Anomalous Pressure Dependence of the Kadowaki-Woods Ratio and Crystal-Field Effects in Mixed-ValenceYbInCu4. Physical Review Letters, 2006, 96, 046405.	7.8	16
36	Fluctuation study of the specific heat ofMg11B2. Physical Review B, 2002, 66, .	3.2	15

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37	A peak in the critical current for quantum critical superconductors. Nature Communications, 2018, 9, 434.	12.8	15
38	Artificially engineered nanostrain in FeSexTe1-x superconductor thin films for supercurrent enhancement. NPG Asia Materials, 2020, 12, .	7.9	15
39	Fieldâ€induced quantum critical point in the pressureâ€induced superconductor CeRhIn₅. Physica Status Solidi (B): Basic Research, 2010, 247, 553-556.	1.5	14
40	Electromagnetic and optical characteristics of Nb5+-doped double-crossover and salmon DNA thin films. Nanotechnology, 2017, 28, 405703.	2.6	14
41	Exchange Bias Effect in Ferro-/Antiferromagnetic van der Waals Heterostructures. Nano Letters, 2020, 20, 3978-3985.	9.1	13
42	STUDY ON UNCONVENTIONAL SUPERCONDUCTORS VIA ANGLE-RESOLVED SPECIFIC HEAT. Modern Physics Letters B, 2004, 18, 1205-1223.	1.9	12
43	Unconventional quantum criticality in the pressure-induced heavy-fermion superconductor CeRhIn₅. Journal of Physics Condensed Matter, 2011, 23, 094218.	1.8	11
44	Anomalous paramagnetic effects in the mixed state ofLuNi2B2C. Physical Review B, 2005, 71, .	3.2	10
45	Effect of proton irradiation on the fluctuation-induced magnetoconductivity of FeSe_{1â^'x}Te_xthin films. New Journal of Physics, 2017, 19, 093004.	2.9	10
46	Influence of carbon-ion irradiation on the superconducting critical properties of MgB2 thin films. Superconductor Science and Technology, 2019, 32, 025006.	3.5	10
47	Pressure effects on the superconducting thin film Ba_{1â^'}_xK_xFe₂As₂. Applied Physics Letters, 2012, 101, 042601.	3.3	9
48	Indium-Free Amorphous Caâ€“Alâ€“O Thin Film as a Transparent Conducting Oxide. Chemistry of Materials, 2019, 31, 8019-8025.	6.7	9
49	Effect of magnetic order on the superfluid response of single-crystalErNi2B2C: A penetration depth study. Physical Review B, 2005, 72, .	3.2	8
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	Tunable quantum critical point and detached superconductivity in Al-doped CrAs. Npj Quantum Materials, 2019, 4, .	5.2	8
52	Reversible magnetoelectric switching in multiferroic three-dimensional nanocup heterostructure films. NPG Asia Materials, 2019, 11, .	7.9	8
53	PuCoGa5 and related materials. Journal of Alloys and Compounds, 2007, 444-445, 19-22.	5.5	7
54	Magnetism and unconventional superconductivity in isostructural cerium and plutonium compounds. Journal of Magnetism and Magnetic Materials, 2007, 310, 532-535.	2.3	7

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55	Nanoscale topographical replication of graphene architecture by artificial DNA nanostructures. Applied Physics Letters, 2014, 104, .	3.3	7
56	Enhanced Critical Current Density in the Carbon-Ion Irradiated MgB₂ Thin Films. Journal of the Physical Society of Japan, 2019, 88, 034716.	1.6	7
57	Giant proximity effect in single-crystalline MgB2 bilayers. Scientific Reports, 2019, 9, 3315.	3.3	7
58	Crystalline symmetry-dependent magnon formation in the itinerant ferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>SrRu</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2021, 103, .	3.2	7
59	Improvement of bulk superconducting current capability of MgB2 films using surface degradation. Scripta Materialia, 2022, 209, 114424.	5.2	7
60	Possible two-band superconductivity in PuRhGa5 and CeRhIn5. Journal of Alloys and Compounds, 2009, 488, 554-557.	5.5	6
61	Pressure dependence of upper critical fields in FeSe single crystals. Superconductor Science and Technology, 2016, 29, 035007.	3.5	6
62	Doping dependence of the vortex dynamics in single-crystal superconducting NaFe${}_{1-x}$Co_{<i>x</i>}As. Superconductor Science and Technology, 2017, 30, 105006.	3.5	6
63	Effects of surface damage on critical current density in MgB2 thin films. Current Applied Physics, 2021, 22, 14-19.	2.4	6
64	Observation of the spontaneous vortex phase in the weakly ferromagnetic superconductor ErNi 2 B 2 C: A penetration depth study. Europhysics Letters, 2006, 73, 772-778.	2.0	5
65	Upper critical field () scaling near a quantum critical point in the heavy-fermion compound. Journal of Magnetism and Magnetic Materials, 2007, 310, 712-714.	2.3	5
66	Quenching of ferromagnetism in Î²-UB₂C and UNiSi₂at high pressure. Journal of Physics: Conference Series, 2011, 273, 012014.	0.4	5
67	Synthesis and characterization of the heavy-fermion compound CePtAl4Ge2. Journal of Alloys and Compounds, 2018, 738, 550-555.	5.5	5
68	Magnetic-order-driven metal-insulator transitions in the quasi-one-dimensional spin-ladder compounds <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>BaFe</mml:mi><mml:mn>2</mml:mn></mn mathvariant="normal">S</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>BaFe</mml:mi><mml:mn>2</mml:mn></mn	3.2	5
69	Effects of magnetic impurities on upper critical fields in the high-<i>T</i>_csuperconductor La-doped CaFe₂As₂. Superconductor Science and Technology, 2017, 30, 085009.	3.5	4
70	Anisotropy dependence of the fluctuation spectroscopy in the critical and gaussian regimes in superconducting NaFe1âˆ’xCo x As single crystals. Scientific Reports, 2018, 8, 8556.	3.3	4
71	Effects of oxygen ion implantation on single-crystalline MgB2 thin films. Journal of Applied Physics, 2019, 125, 023904.	2.5	4
72	Tuning the charge density wave quantum critical point and the appearance of superconductivity in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Ti</mml:mi><mml:msub><mml:mi>Se</mml:mi><mml:m Physical Review Research, 2021, 3, .	3.6	4

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73	Influence of disorder strength on the superconducting mechanism of MgB₂. Superconductor Science and Technology, 2022, 35, 015001.	3.5	4
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	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
76	Optical properties of NbCl₅ and ZnMg intercalated graphite compounds. Journal Physics D: Applied Physics, 2014, 47, 485304.	2.8	3
77	Spectroscopic evidence for two-gap superconductivity in the quasi-1D chalcogenide Nb₂Pd_{0.81}S₅. Journal of Physics Condensed Matter, 2018, 30, 165401.	1.8	3
78	High mobility field-effect transistors based on MoS₂ crystals grown by the flux method. Nanotechnology, 2021, 32, 325603.	2.6	3
79	Ce site dilution effects in the antiferromagnetic heavy fermion <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>CeIn</mml:mi><mml:mn>3</mml:mn></mml:msub></m Physical Review Materials, 2022, 6, .	2.4	3
80	Phase diagram of ZrZn2 at high pressure: Low-temperature features and elusive superconductivity. Physica B: Condensed Matter, 2006, 378-380, 411-412.	2.7	2
81	Anisotropic upper critical field in pressure-induced CrAs superconductor. Journal of Applied Physics, 2017, 122, .	2.5	2
82	Manipulating superconducting phases via current-driven magnetic states in rare-earth-doped CaFe2As2. NPG Asia Materials, 2018, 10, 156-162.	7.9	2
83	Synthesis of heavy fermion CeCoIn5 thin film via pulsed laser deposition. Current Applied Physics, 2019, 19, 1338-1342.	2.4	2
84	Band gap, dielectric constant, and susceptibility of DNA layers as controlled by vanadium ion concentration. Nanotechnology, 2020, 31, 085705.	2.6	2
85	Synthesis of the Ni-doped ternary compound Ba(Fe_{1-x}Ni_x)₂Se₃. Progress in Superconductivity and Evolution of antiferromagnetism in Zn-doped heavy-fermion compound <mml:math	0.3	2
86			

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91	Angle-dependent Hall effect and vortex dynamics in single-crystalline MgB2 thin films. Superconductor Science and Technology, 2019, 32, 115011.	3.5	1
92	Field-induced quantum breakdown of superconductivity in magnesium diboride. NPG Asia Materials, 2021, 13, .	7.9	1
93	Transport and calorimetry study of 20% La-doped CeIn₃. Journal of Physics Condensed Matter, 2021, 33, 065604.	1.8	1
94	Mixed-state Hall scaling behavior and vortex phase diagram in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>FeSe</mml:mi><mml:mrow><mml:mn>0.7< thin films. Physical Review B, 2022, 105, .	3.2	1
95	Field-induced multiple quantum phase transitions in the antiferromagnetic Kondo-lattice compound <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>CeRhAl</mml:mi><mml:mn>4</mml:mn> Physical Review B, 2022, 105, .	3.2	1
96	Thermal properties of various Kondo ground states in the heavy-fermion system CeNi1â^'xCoxGe2. Journal of Physics Condensed Matter, 2005, 17, 2485-2492.	1.8	0
97	Evidence for correlation between spin and charge dynamics in La2Cu1â^'xLixO4. Journal of Applied Physics, 2009, 105, .	2.5	0
98	Critical Current Density in the Heterogeneous High-T c Superconductor Ca1â^'xLa x Fe2As2. Journal of the Korean Physical Society, 2018, 72, 515-521.	0.7	0
99	Thermal annealing and pressure effects on BaFe2â^'xCoxAs2single crystals. Journal of Physics Condensed Matter, 2018, 30, 025501.	1.8	0
100	Pressure dependence of antiferromagnetic and superconducting phases in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="normal">U</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">R</mml:mi><mml:msub><mml:mi mathvariant="normal">h</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow></r mathvariant="normal">P</mml:mi><mml:msub><mml:mi mathvariant="normal">t</mml:mi><mml:mi>x</	3.2	0
101	Three-dimensional hopping conduction triggered by magnetic ordering in the quasi-one-dimensional iron-ladder compounds BaFe2S3 and BaFe2Se3. Physical Review B, 2020, 102, .	3.2	0
102	Synthesis and pressure effects on the La doped CaFe₂As₂. Progress in Superconductivity and Cryogenics (PSAC), 2014, 16, 1-3.	0.3	0