

Jeffery L Tallon

List of Publications by Year in descending order

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35
papers

2,374
citations

304602

22
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360920

35
g-index

35
all docs

35
docs citations

35
times ranked

1317
citing authors

#	ARTICLE	IF	CITATIONS
1	Systematics in the thermoelectric power of high-Tc oxides. <i>Physical Review B</i> , 1992, 46, 14928-14931.	1.1	605
2	High-Tc superconducting phases in the series $\text{Bi}_{2.1}(\text{Ca}, \text{Sr})_{n+1}\text{Cu}_n\text{O}_{2n+4}\hat{\Gamma}$. <i>Nature</i> , 1988, 333, 153-156.	13.7	290
3	In-Plane Anisotropy of the Penetration Depth Due to Superconductivity on the Cu-O Chains in $\text{YBa}_2\text{Cu}_3\text{O}_{7-\hat{\Gamma}}$, $\text{Y}_2\text{Ba}_4\text{Cu}_7\text{O}_{15-\hat{\Gamma}}$, and $\text{YBa}_2\text{Cu}_4\text{O}_8$. <i>Physical Review Letters</i> , 1995, 74, 1008-1011.	2.9	154
4	Zn-induced T_c Reduction in High-Tc Superconductors: Scattering in the Presence of a Pseudogap. <i>Physical Review Letters</i> , 1997, 79, 5294-5297.	2.9	140
5	Superfluid density in cuprate high-Tc superconductors: a new paradigm. <i>Physical Review B</i> , 2003, 68, .	1.1	130
6	Anomalous Peak in the Superconducting Condensate Density of Cuprate High-Tc Superconductors at a Unique Doping State. <i>Physical Review Letters</i> , 2001, 86, 1614-1617.	2.9	125
7	Absence of an Isotope Effect in the Pseudogap in $\text{YBa}_2\text{Cu}_4\text{O}_8$ as Determined by High-Resolution ^{89}Y NMR. <i>Physical Review Letters</i> , 1998, 80, 377-380.	2.9	81
8	Doping phase diagram of $\text{Y}_{1-\hat{x}}\text{Ca}_x\text{Ba}_2(\text{Cu}_{1-\hat{y}}\text{Zn}_y)_3\text{O}_{7-\hat{\Gamma}}$ from transport measurements: Tracking the pseudogap below T_c . <i>Physical Review B</i> , 2005, 71, .	1.1	80
9	Universal self-field critical current for thin-film superconductors. <i>Nature Communications</i> , 2015, 6, 7820.	5.8	78
10	Electronic specific heat of $\text{Tl}_2\text{Ba}_2\text{CuO}_6$ from 2 K to 300 K for $0 \leq \hat{\Gamma} \leq 0.1$. <i>Journal of Superconductivity and Novel Magnetism</i> , 1994, 7, 261-264.	0.5	56
11	Crossover temperatures in the normal-state phase diagram of high-Tc superconductors. <i>Physical Review B</i> , 1998, 58, 15053-15061.	1.1	50
12	Hole doping dependence of critical current density in $\text{YBa}_2\text{Cu}_3\text{O}_{7-\hat{\Gamma}}$ conductors. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	45
13	Nickel Impurity-Induced Enhancement of the Pseudogap of Cuprate High-Tc Superconductors. <i>Physical Review Letters</i> , 2005, 94, 227003.	2.9	44
14	On the origin of critical temperature enhancement in atomically thin superconductors. <i>2D Materials</i> , 2017, 4, 025072.	2.0	44
15	Fluctuations and critical temperature reduction in cuprate superconductors. <i>Physical Review B</i> , 2011, 83, .	1.1	42
16	Normal-state pseudogap in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ characterized by impurity scattering. <i>Physical Review B</i> , 1998, 58, R5956-R5959.	1.1	40
17	^{89}Y NMR study of the effect of Zn substitution on the spin dynamics of $\text{YBa}_2\text{Cu}_4\text{O}_8$. <i>Physical Review B</i> , 1995, 51, 16503-16506.	1.1	38
18	Thermodynamic Parameters of Single- or Multi-Band Superconductors Derived from Self-Field Critical Currents. <i>Annalen Der Physik</i> , 2017, 529, 1700197.	0.9	37

#	ARTICLE	IF	CITATIONS
19	London penetration depth and thermal fluctuations in the sulphur hydride 203 K superconductor. <i>Annalen Der Physik</i> , 2017, 529, 1600390.	0.9	33
20	Saddle-point van Hove singularity and the phase diagram of high-Tccuprates. <i>Physical Review B</i> , 2007, 76, .	1.1	30
21	Coexistence of the superconducting energy gap and pseudogap above and below the transition temperature of cuprate superconductors. <i>Physical Review B</i> , 2013, 87, .	1.1	28
22	Universal scaling of the self-field critical current in superconductors: from sub-nanometre to millimetre size. <i>Scientific Reports</i> , 2017, 7, 10010.	1.6	25
23	Fermi arcs in cuprate superconductors: Tracking the pseudogap below T_c and above T^* . <i>Physical Review B</i> , 2007, 76, .	1.1	24
24	Contrasting oxygen and copper isotope effects in $\text{YBa}_2\text{Cu}_3\text{O}_7$ superconducting and normal states. <i>Physical Review B</i> , 2000, 61, R9257-R9260.	1.1	23
25	Pseudogap and Quantum-Transition Phenomenology in HTS Cuprates. <i>Journal of Low Temperature Physics</i> , 2003, 131, 387-394.	0.6	23
26	Pseudogap ground state in high-temperature superconductors. <i>Physical Review B</i> , 2008, 78, .	1.1	19
27	Locating the pseudogap closing point in cuprate superconductors: Absence of entrant or reentrant behavior. <i>Physical Review B</i> , 2020, 101, .	1.1	19
28	Pseudogap in $\text{YBa}_2\text{Cu}_3\text{O}_6$ is not bounded by a line of phase transitions: Thermodynamic evidence. <i>Physical Review B</i> , 2014, 89, . http://www.w3.org/1998/Math/MathML	1.1	15
29	$\text{Bi}_{1-x}\text{Sr}_x\text{Ca}_y\text{Cu}_{1-y}\text{O}_{7-z}$	1.1	13
30	Current distribution across type II superconducting films: a new vortex-free critical state. <i>Scientific Reports</i> , 2018, 8, 1716.	1.6	10
31	Thermodynamics and Critical Current Density in High- T_c Superconductors. <i>IEEE Transactions on Applied Superconductivity</i> , 2015, 25, 1-6.	1.1	9
32	The onset of dissipation in high-temperature superconductors: magnetic hysteresis and field dependence. <i>Scientific Reports</i> , 2018, 8, 14463.	1.6	8
33	Compressed H_3S , Superfluid Density and the Quest for Room-Temperature Superconductivity. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018, 31, 619-624.	0.8	7
34	Field-dependent specific heat of the canonical underdoped cuprate superconductor $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$. <i>Scientific Reports</i> , 2020, 10, 22288.	1.6	5
35	Peak in the critical current density in $\text{Ca}_{1-x}\text{Bi}_x\text{Cu}_2\text{O}_7$. <i>Physical Review B</i> , 2022, 105, .		