

Jeffery L Tallon

List of Publications by Year in descending order

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papers

2,374
citations

304602

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times ranked

1317
citing authors

#	ARTICLE	IF	CITATIONS
1	Peak in the critical current density in $\text{Ca}_{1-x}\text{Bi}_x\text{Sr}_2\text{CuO}_{7-y}$. Physical Review B, 2022, 105, .		
2	Locating the pseudogap closing point in cuprate superconductors: Absence of entrant or reentrant behavior. Physical Review B, 2020, 101, .	1.1	19
3	Field-dependent specific heat of the canonical underdoped cuprate superconductor $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$. Scientific Reports, 2020, 10, 22288.	1.6	5
4	Current distribution across type II superconducting films: a new vortex-free critical state. Scientific Reports, 2018, 8, 1716.	1.6	10
5	Compressed H ₂ S, Superfluid Density and the Quest for Room-Temperature Superconductivity. Journal of Superconductivity and Novel Magnetism, 2018, 31, 619-624.	0.8	7
6	The onset of dissipation in high-temperature superconductors: magnetic hysteresis and field dependence. Scientific Reports, 2018, 8, 14463.	1.6	8
7	On the origin of critical temperature enhancement in atomically thin superconductors. 2D Materials, 2017, 4, 025072.	2.0	44
8	London penetration depth and thermal fluctuations in the sulphur hydride 203 K superconductor. Annalen Der Physik, 2017, 529, 1600390.	0.9	33
9	Universal scaling of the self-field critical current in superconductors: from sub-nanometre to millimetre size. Scientific Reports, 2017, 7, 10010.	1.6	25
10	Thermodynamic Parameters of Single- or Multi-Band Superconductors Derived from Self-Field Critical Currents. Annalen Der Physik, 2017, 529, 1700197.	0.9	37
11	Thermodynamics and Critical Current Density in High- T_c Superconductors. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-6.	1.1	9
12	Universal self-field critical current for thin-film superconductors. Nature Communications, 2015, 6, 7820.	5.8	78
13	Hole doping dependence of critical current density in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ conductors. Applied Physics Letters, 2014, 104, .	1.5	45
14	Pseudogap in $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$ is not bounded by a line of phase transitions: Thermodynamic evidence. Physical Review B, 2014, 89, .	1.1	15
15	Coexistence of the superconducting energy gap and pseudogap above and below the transition temperature of cuprate superconductors. Physical Review B, 2013, 87, .	1.1	28
16	Fluctuations and critical temperature reduction in cuprate superconductors. Physical Review B, 2011, 83, .	1.1	42
17	Pseudogap ground state in high-temperature superconductors. Physical Review B, 2008, 78, .	1.1	19
18	Thermodynamic properties of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{10}$. Physical Review B, 2008, 78, .	1.1	13

#	ARTICLE	IF	CITATIONS
19	Saddle-point van Hove singularity and the phase diagram of high-T _c cuprates. Physical Review B, 2007, 76, .	1.1	30
20	Fermi arcs in cuprate superconductors: Tracking the pseudogap below T _c and above T [*] . Physical Review B, 2007, 76, .	1.1	24
21	Nickel Impurity-Induced Enhancement of the Pseudogap of Cuprate High-T _c Superconductors. Physical Review Letters, 2005, 94, 227003.	2.9	44
22	Doping phase diagram of Y _{1-x} CaxBa ₂ (Cu _{1-y} Zny) ₃ O _{7-δ} from transport measurements: Tracking the pseudogap below T _c . Physical Review B, 2005, 71, .	1.1	80
23	Pseudogap and Quantum-Transition Phenomenology in HTS Cuprates. Journal of Low Temperature Physics, 2003, 131, 387-394.	0.6	23
24	Superfluid density in cuprate high-T _c superconductors: A new paradigm. Physical Review B, 2003, 68, .	1.1	130
25	Anomalous Peak in the Superconducting Condensate Density of Cuprate High-T _c Superconductors at a Unique Doping State. Physical Review Letters, 2001, 86, 1614-1617.	2.9	125
26	Contrasting oxygen and copper isotope effects in YBa ₂ Cu ₄ O ₈ superconducting and normal states. Physical Review B, 2000, 61, R9257-R9260.	1.1	23
27	Absence of an Isotope Effect in the Pseudogap in YBa ₂ Cu ₄ O ₈ as Determined by High-Resolution Y ⁸⁹ NMR. Physical Review Letters, 1998, 80, 377-380.	2.9	81
28	Crossover temperatures in the normal-state phase diagram of high-T _c superconductors. Physical Review B, 1998, 58, 15053-15061.	1.1	50
29	Normal-state pseudogap in Bi ₂ Sr ₂ CaCu ₂ O ₈ characterized by impurity scattering. Physical Review B, 1998, 58, R5956-R5959.	1.1	40
30	Zn-induced T _c Reduction in High-T _c Superconductors: Scattering in the Presence of a Pseudogap. Physical Review Letters, 1997, 79, 5294-5297.	2.9	140
31	Y ⁸⁹ NMR study of the effect of Zn substitution on the spin dynamics of YBa ₂ Cu ₄ O ₈ . Physical Review B, 1995, 51, 16503-16506.	1.1	38
32	In-Plane Anisotropy of the Penetration Depth Due to Superconductivity on the Cu-O Chains in YBa ₂ Cu ₃ O _{7-δ} , Y ₂ Ba ₄ Cu ₇ O _{15-δ} , and YBa ₂ Cu ₄ O ₈ . Physical Review Letters, 1995, 74, 1008-1011.	2.9	154
33	Electronic specific heat of Tl ₂ Ba ₂ CuO _{6+δ} from 2 K to 300 K for 0 ≤ δ ≤ 0.1. Journal of Superconductivity and Novel Magnetism, 1994, 7, 261-264.	0.5	56
34	Systematics in the thermoelectric power of high-T _c oxides. Physical Review B, 1992, 46, 14928-14931.	1.1	605
35	High-T _c superconducting phases in the series Bi _{2.1} (Ca, Sr) _n +lCu _n O _{2n+4+δ} . Nature, 1988, 333, 153-156.	13.7	290