

David K Hilton

List of Publications by Year in descending order

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papers

566
citations

949033

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all docs

24
docs citations

24
times ranked

596
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of a persistent superconducting joint between Bi-2212/Ag-alloy multifilamentary round wires. Superconductor Science and Technology, 2017, 30, 025020.	1.8	18
2	Practical fit functions for transport critical current versus field magnitude and angle data from (RE)BCO coated conductors at fixed low temperatures and in high magnetic fields. Superconductor Science and Technology, 2015, 28, 074002.	1.8	69
3	Study of second-generation high-temperature superconducting magnets: the self-field screening effect. Superconductor Science and Technology, 2014, 27, 095010.	1.8	44
4	Field Angular Dependence of Hysteresis Losses of Coated Conductor for High Field Magnets. IEEE Transactions on Applied Superconductivity, 2013, 23, 8200804-8200804.	1.1	23
5	Observations from the Analyses of Magnetic Field and AC Loss Distributions in the NHMFL 32 T All-Superconducting Magnet HTS Insert. IEEE Transactions on Applied Superconductivity, 2013, 23, 4300704-4300704.	1.1	18
6	35.4 T field generated using a layer-wound superconducting coil made of (RE)Ba ₂ Cu ₃ O _{7-x} (RE = rare) T _j = 90 K. Overload	1.5	150
7	Absolute dynamic viscosity measurements of subcooled liquid oxygen from 0.15MPa to 1.0MPa. Cryogenics, 2008, 48, 56-60.	0.9	6
8	SUBCOOLED LIQUID OXYGEN CRYOSTAT FOR MAGNETO-ARCHIMEDES PARTICLE SEPARATION BY DENSITY. AIP Conference Proceedings, 2008, , .	0.3	2
9	Gravitational capillary viscometer for low-temperature liquids. Review of Scientific Instruments, 2007, 78, 033906.	0.6	2
10	Influence of the steady background turbulence level on second sound dynamics in He II. Cryogenics, 2007, 47, 36-39.	0.9	0
11	Direct Measurements of Quantum Turbulence Induced by Second Sound Shock Pulses in Helium II. Journal of Low Temperature Physics, 2005, 141, 47-82.	0.6	7
12	Quantum turbulence in He II induced by second sound shock pulses. Physica B: Condensed Matter, 2003, 329-333, 228-229.	1.3	3
13	Helium II level measurement techniques. Cryogenics, 2001, 41, 355-366.	0.9	12
14	Techniques for the detection of second sound shock pulses and induced quantum turbulence in He II. Cryogenics, 2001, 41, 347-353.	0.9	4
15	Thin-Film Thermometer and Heater Design for the Detection and Generation of Second Sound Shock Pulses. , 2000, , 1025-1032.		4
16	A capacitive liquid helium level sensor instrument. Cryogenics, 1999, 39, 485-487.	0.9	12
17	Observed drag crisis on a sphere in flowing He I and He II. Physics of Fluids, 1999, 11, 751-753.	1.6	56
18	Mechanical properties and strain effects in Bi ₂ /Sr ₂ /CaCu ₂ /O _x /AgMg composite conductors. IEEE Transactions on Applied Superconductivity, 1997, 7, 2038-2041.	1.1	22

#	ARTICLE	IF	CITATIONS
19	Mechanical tests on the surface-coated Bi-2212 superconducting tapes. Cryogenics, 1997, 37, 837-841.	0.9	10
20	Long-range magnetic order in Fe ₃ O ₄ /NiO superlattices. Physical Review B, 1995, 51, 8276-8286.	1.1	62
21	Thermal cycling and critical current density of BSCCO/Ag-sheathed wire and tape. IEEE Transactions on Applied Superconductivity, 1995, 5, 3478-3481.	1.1	3
22	Interfacial Exchange Coupling and the magnetization of Iron Oxide/Nickel Oxide Superlattices. Materials Research Society Symposia Proceedings, 1993, 313, 779.	0.1	1
23	Structural phase transitions and oxygen-oxygen interaction energies in YBa ₂ Cu ₃ O _{6+x} . Physical Review B, 1992, 46, 381-389.	1.1	38