

Herman J Fink

List of Publications by Year in descending order

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37
papers

1,026
citations

489802

18
h-index

466096

32
g-index

38
all docs

38
docs citations

38
times ranked

357
citing authors

#	ARTICLE	IF	CITATIONS
1	High temperature superconductivity with repulsive pairing interactions. Physica C: Superconductivity and Its Applications, 2015, 517, 26-30.	0.6	0
2	Non-separable pairing interaction kernels applied to superconducting cuprates. Physica C: Superconductivity and Its Applications, 2014, 500, 44-55.	0.6	1
3	Boundary conditions, dimensionality, topology and size dependence of the superconducting transition temperature. Molecular Physics, 2005, 103, 2969-2978.	0.8	11
4	SURFACE INDUCED ANOMALOUS SUPERCONDUCTIVITY. International Journal of Modern Physics B, 2003, 17, 2171-2211.	1.0	4
5	Currents in a superconducting loop with a branch connected to a current-carrying infinite wire. Superconductor Science and Technology, 2000, 13, 1309-1314.	1.8	1
6	Internally orthogonal and tracking solutions of the Ginzburg-Landau and Schrödinger equations. Physical Review B, 2000, 61, 4353-4360.	1.1	3
7	Anisotropic microwave resistance of $\text{YBa}_2\text{Cu}_3\text{O}_{6.95}$ and the modified two-fluid model. Physical Review B, 2000, 62, 3046-3049.	1.1	10
8	Microwave surface impedance of $\text{YBa}_2\text{Cu}_3\text{O}_{6.99}$: Comparison of theory and experiment. Physical Review B, 2000, 61, 6346-6351.	1.1	10
9	Integer quantum Hall effect model: Spatial confinement, magnetic flux oscillation, and instability. Physical Review B, 1999, 60, 8225-8233.	1.1	4
10	Residual and intrinsic surface resistance of $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$. Physical Review B, 1998, 58, 9415-9420.	1.1	21
11	Supercurrents through SNS proximity-induced junctions. Physical Review B, 1997, 56, 2732-2737.	1.1	3
12	Quantized levitation by multiply-connected superconductors. European Physical Journal D, 1996, 46, 2331-2332.	0.4	0
13	Magnetic levitation, suspension, and superconductivity: Macroscopic and mesoscopic. Physical Review B, 1996, 53, 3506-3515.	1.1	7
14	Quantized levitation states of superconducting multiple-ring systems. Physical Review B, 1996, 53, 3497-3505.	1.1	6
15	Superconducting vortex with extended core. Physical Review B, 1992, 45, 4799-4802.	1.1	5
16	Critical transport currents of the superconducting ladder. Physical Review Letters, 1991, 66, 216-219.	2.9	14
17	Superconducting microneeds: A state-variable approach. Physical Review B, 1991, 43, 10151-10163.	1.1	9
18	New critical current-flux boundary of a superconducting microladder. Physica B: Condensed Matter, 1990, 165-166, 1113-1114.	1.3	0

#	ARTICLE	IF	CITATIONS
19	Quantum-interference device without Josephson junctions. <i>Physical Review B</i> , 1987, 35, 35-37.	1.1	54
20	Commensurate Vortex States of the Infinite Superconducting Microladder. <i>Japanese Journal of Applied Physics</i> , 1987, 26, 1465.	0.8	10
21	Artificial Microstructure and Quantum Interference of Supercurrents. <i>Japanese Journal of Applied Physics</i> , 1987, 26, 1605.	0.8	0
22	Size dependence of the superconducting critical temperature and fields of Nb/Al multilayers. <i>Journal of Low Temperature Physics</i> , 1986, 63, 151-165.	0.6	28
23	Critical current of thin superconducting wire with side branches. <i>Physical Review B</i> , 1985, 31, 600-602.	1.1	31
24	Magnetic phase boundary of simple superconductive micronetworks. <i>Physical Review B</i> , 1982, 26, 5237-5240.	1.1	88
25	Supercurrents through superconducting-normal-superconducting proximity layers. I. Analytic solution. <i>Physical Review B</i> , 1976, 14, 1028-1038.	1.1	33
26	Stability Limit of the Superheated Meissner State due to Three-Dimensional Fluctuations of the Order Parameter and Vector Potential. <i>Physical Review</i> , 1969, 182, 498-503.	2.7	51
27	Magnetic Suspension and Guidance for High Speed Rockets by Superconducting Magnets. <i>Journal of Applied Physics</i> , 1969, 40, 2133-2140.	1.1	79
28	Surface Nucleation and Boundary Conditions in Superconductors. <i>Physical Review Letters</i> , 1969, 23, 120-123.	2.9	63
29	Vortex Nucleation in a Superconducting Slab near a Second-Order Phase Transition and Excited States of the Sheath near H_{c3} . <i>Physical Review</i> , 1969, 177, 732-737.	2.7	49
30	Magnetic Irreversible Solution of the Ginzburg-Landau Equations. <i>Physical Review</i> , 1966, 151, 219-228.	2.7	89
31	Critical Currents in the Superconducting Surface Sheath. <i>Physical Review</i> , 1966, 149, 186-191.	2.7	39
32	Inherent Low-Frequency Losses of the Superconducting Surface Sheath. <i>Physical Review Letters</i> , 1966, 16, 447-450.	2.9	27
33	Exact Solutions of the Superconducting Surface Sheath. <i>Physical Review</i> , 1965, 140, A1937-A1944.	2.7	75
34	Superconducting Surface Sheath of a Type-II Superconductor Below the Upper Critical Field H_{c2} . <i>Physical Review Letters</i> , 1965, 14, 309-312.	2.9	57
35	Critical State of The Superconducting Surface Sheath. <i>Physical Review Letters</i> , 1965, 15, 792-795.	2.9	68
36	Internal Currents and Magnetic Fields Close to the Surface for a Type-II Superconductor for Applied Magnetic Fields Near the Upper Critical Field H_{c2} . <i>Physical Review Letters</i> , 1965, 14, 853-857.	2.9	33

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37	High-Field Superconductivity of Carbides. Physical Review, 1965, 138, A1170-A1173.	2.7	39