

# Herman J Fink

## List of Publications by Year in descending order

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37  
papers

1,026  
citations

430843

18  
h-index

414395

32  
g-index

38  
all docs

38  
docs citations

38  
times ranked

344  
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic Irreversible Solution of the Ginzburg-Landau Equations. Physical Review, 1966, 151, 219-228.	2.7	89
2	Magnetic phase boundary of simple superconductive micronetworks. Physical Review B, 1982, 26, 5237-5240.	3.2	88
3	Magnetic Suspension and Guidance for High Speed Rockets by Superconducting Magnets. Journal of Applied Physics, 1969, 40, 2133-2140.	2.5	79
4	Exact Solutions of the Superconducting Surface Sheath. Physical Review, 1965, 140, A1937-A1944.	2.7	75
5	Critical State of The Superconducting Surface Sheath. Physical Review Letters, 1965, 15, 792-795.	7.8	68
6	Surface Nucleation and Boundary Conditions in Superconductors. Physical Review Letters, 1969, 23, 120-123.	7.8	63
7	Superconducting Surface Sheath of a Type-II Superconductor Below the Upper Critical Field $H_{c2}$ . Physical Review Letters, 1965, 14, 309-312.	7.8	57
8	Quantum-interference device without Josephson junctions. Physical Review B, 1987, 35, 35-37.	3.2	54
9	Stability Limit of the Superheated Meissner State due to Three-Dimensional Fluctuations of the Order Parameter and Vector Potential. Physical Review, 1969, 182, 498-503.	2.7	51
10	Vortex Nucleation in a Superconducting Slab near a Second-Order Phase Transition and Excited States of the Sheath near $H_{c3}$ . Physical Review, 1969, 177, 732-737.	2.7	49
11	High-Field Superconductivity of Carbides. Physical Review, 1965, 138, A1170-A1173.	2.7	39
12	Critical Currents in the Superconducting Surface Sheath. Physical Review, 1966, 149, 186-191.	2.7	39
13	Internal Currents and Magnetic Fields Close to the Surface for a Type-II Superconductor for Applied Magnetic Fields Near the Upper Critical Field $H_{c2}$ . Physical Review Letters, 1965, 14, 853-857.	7.8	33
14	Supercurrents through superconducting-normal-superconducting proximity layers. I. Analytic solution. Physical Review B, 1976, 14, 1028-1038.	3.2	33
15	Critical current of thin superconducting wire with side branches. Physical Review B, 1985, 31, 600-602.	3.2	31
16	Size dependence of the superconducting critical temperature and fields of Nb/Al multilayers. Journal of Low Temperature Physics, 1986, 63, 151-165.	1.4	28
17	Inherent Low-Frequency Losses of the Superconducting Surface Sheath. Physical Review Letters, 1966, 16, 447-450.	7.8	27
18	Residual and intrinsic surface resistance of $YBa_2Cu_3O_{7-\delta}$ . Physical Review B, 1998, 58, 9415-9420.	3.2	21

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19	Critical transport currents of the superconducting ladder. <i>Physical Review Letters</i> , 1991, 66, 216-219.	7.8	14
20	Boundary conditions, dimensionality, topology and size dependence of the superconducting transition temperature. <i>Molecular Physics</i> , 2005, 103, 2969-2978.	1.7	11
21	Anisotropic microwave resistance of $\text{YBa}_2\text{Cu}_3\text{O}_{6.95}$ and the modified two-fluid model. <i>Physical Review B</i> , 2000, 62, 3046-3049.	3.2	10
22	Microwave surface impedance of $\text{YBa}_2\text{Cu}_3\text{O}_{6.99}$ : Comparison of theory and experiment. <i>Physical Review B</i> , 2000, 61, 6346-6351.	3.2	10
23	Commensurate Vortex States of the Infinite Superconducting Microladder. <i>Japanese Journal of Applied Physics</i> , 1987, 26, 1465.	1.5	10
24	Superconducting microneets: A state-variable approach. <i>Physical Review B</i> , 1991, 43, 10151-10163.	3.2	9
25	Magnetic levitation, suspension, and superconductivity: Macroscopic and mesoscopic. <i>Physical Review B</i> , 1996, 53, 3506-3515.	3.2	7
26	Quantized levitation states of superconducting multiple-ring systems. <i>Physical Review B</i> , 1996, 53, 3497-3505.	3.2	6
27	Superconducting vortex with extended core. <i>Physical Review B</i> , 1992, 45, 4799-4802.	3.2	5
28	Integer quantum Hall effect model: Spatial confinement, magnetic flux oscillation, and instability. <i>Physical Review B</i> , 1999, 60, 8225-8233.	3.2	4
29	SURFACE INDUCED ANOMALOUS SUPERCONDUCTIVITY. <i>International Journal of Modern Physics B</i> , 2003, 17, 2171-2211.	2.0	4
30	Supercurrents through SNS proximity-induced junctions. <i>Physical Review B</i> , 1997, 56, 2732-2737.	3.2	3
31	Internally orthogonal and tracking solutions of the Ginzburg-Landau and Schrödinger equations. <i>Physical Review B</i> , 2000, 61, 4353-4360.	3.2	3
32	Currents in a superconducting loop with a branch connected to a current-carrying infinite wire. <i>Superconductor Science and Technology</i> , 2000, 13, 1309-1314.	3.5	1
33	Non-separable pairing interaction kernels applied to superconducting cuprates. <i>Physica C: Superconductivity and Its Applications</i> , 2014, 500, 44-55.	1.2	1
34	New critical current-flux boundary of a superconducting microladder. <i>Physica B: Condensed Matter</i> , 1990, 165-166, 1113-1114.	2.7	0
35	Quantized levitation by multiply-connected superconductors. <i>European Physical Journal D</i> , 1996, 46, 2331-2332.	0.4	0
36	High temperature superconductivity with repulsive pairing interactions. <i>Physica C: Superconductivity and Its Applications</i> , 2015, 517, 26-30.	1.2	0

#	ARTICLE	IF	CITATIONS
37	Artificial Microstructure and Quantum Interference of Supercurrents. Japanese Journal of Applied Physics, 1987, 26, 1605.	1.5	0