

# Guy Deutscher

## List of Publications by Year in descending order

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34  
papers

738  
citations

758635

12  
h-index

580395

25  
g-index

35  
all docs

35  
docs citations

35  
times ranked

656  
citing authors

#	ARTICLE	IF	CITATIONS
1	Coherence and single-particle excitations in the high-temperature superconductors. Nature, 1999, 397, 410-412.	13.7	318
2	Kinetic energy change with doping upon superfluid condensation in high-temperature superconductors. Physical Review B, 2005, 72, .	1.1	71
3	Enhanced Cooper pairing versus suppressed phase coherence shaping the superconducting dome in coupled aluminum nanograins. Physical Review B, 2016, 93, .	1.1	70
4	Status of the European Union Project FASTGRID. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.1	43
5	Optical signatures of the superconducting Goldstone mode in granular aluminum: Experiments and theory. Physical Review B, 2017, 96, .	1.1	29
6	Preparation and patterning of YBaCuO thin films obtained by sequential deposition of CuOx/Y2O3/BaF2. Applied Physics Letters, 1988, 53, 698-699.	1.5	25
7	Percolation scale effects in metal-insulator thin films. Journal of Statistical Physics, 1984, 36, 815-826.	0.5	22
8	Critical current of Y1Ba2Cu3O7 in strong applied fields. Applied Physics Letters, 1987, 51, 460-462.	1.5	21
9	The role of Cu-O bond length fluctuations in the high temperature superconductivity mechanism. Journal of Applied Physics, 2012, 111, .	1.1	21
10	THE ROLE OF MICROGEOMETRY IN THE ELECTRICAL BREAKDOWN OF METAL-INSULATOR MIXTURES. International Journal of Modern Physics B, 1993, 07, 3353-3374.	1.0	20
11	Crossed Andreev Reflections. Journal of Superconductivity and Novel Magnetism, 2002, 15, 43-47.	0.5	16
12	Optical conductivity of granular aluminum films near the Mott metal-to-insulator transition. Physical Review B, 2019, 99, .	1.1	16
13	Granular superconductors for high kinetic inductance and low loss quantum devices. Applied Physics Letters, 2020, 117, .	1.5	12
14	High-Voltage Superconducting Fault Current Limiters Based on High-Diffusivity Dielectric Substrates. Journal of Superconductivity and Novel Magnetism, 2018, 31, 1961-1963.	0.8	9
15	Multi-Level Kondo Effect and Enhanced Critical Temperature in Nanoscale Granular Al. Journal of Superconductivity and Novel Magnetism, 2018, 31, 733-736.	0.8	7
16	High Tc: Top Down or Bottom Up?. Journal of Superconductivity and Novel Magnetism, 2000, 13, 699-701.	0.5	6
17	Impact of pseudo-gap states on the pinning energy and irreversibility field of high temperature superconductors. APL Materials, 2014, 2, .	2.2	6
18	From orbital to Pauli-limited critical fields in granular aluminum films. Physical Review Research, 2020, 2, .	1.3	6

#	ARTICLE	IF	CITATIONS
19	Tunneling study in granular aluminum near the Mott metal-to-insulator transition. Physical Review B, 2021, 104, .	1.1	5
20	Granular Superconductivity: a Playground for Josephson, Anderson, Kondo, and Mott. Journal of Superconductivity and Novel Magnetism, 2021, 34, 1699-1703.	0.8	4
21	Title is missing!. Journal of Low Temperature Physics, 1999, 117, 533-537.	0.6	3
22	Kubo spins in nanoscale aluminum grains: A muon spin relaxation study. Physical Review B, 2020, 101, .	1.1	3
23	The Role of the Short Coherence Length in Unconventional Superconductors. Condensed Matter, 2020, 5, 77.	0.8	3
24	Superfluid Condensation in Short Coherence Length Superconductors: The Case of the High Tc Cuprates. Journal of Superconductivity and Novel Magnetism, 1999, 12, 15-17.	0.5	1
25	Comment on "Phase diagram of reentrant and magnetic-field-induced superconducting states with Kondo impurities in bulk and proximity-coupled compounds". Physical Review B, 2013, 87, .	1.1	1
26	Granular Aspects of High Tc Superconductivity. Materials Research Society Symposia Proceedings, 1990, 195, 303.	0.1	0
27	Study of superfluid condensation in the cuprates by Andreev reflections. , 1999, , .		0
28	Title is missing!. Journal of Low Temperature Physics, 2003, 131, 471-475.	0.6	0
29	Mode of Superfluid Condensation in the High-Temperature Superconductors and Its Implications for Their Applications in High Fields. Journal of Superconductivity and Novel Magnetism, 2004, 17, 85-88.	0.5	0
30	Encounters with Vitaly, Nina, and the $\hat{\Gamma}$ Function. Journal of Superconductivity and Novel Magnetism, 2007, 19, 439-441.	0.8	0
31	Granular Metals, Superconductivity and Kondo Lattices. Journal of Superconductivity and Novel Magnetism, 2012, 25, 581-584.	0.8	0
32	Roger Maynard 1938-2015. European Physical Journal: Special Topics, 2017, 226, 1349-1352.	1.2	0
33	A spatial interpretation of emerging superconductivity in lightly doped cuprates. Series on Directions in Condensed Matter Physics, 2009, , 49-53.	0.1	0
34	Surface Bound States in Unconventional Superconductors: An Unforeseen Consequence of Earlier Work by Pierre-Gilles de Gennes and Daniel Saint-James. Series on Directions in Condensed Matter Physics, 2009, , 16-31.	0.1	0