Gad Koren

List of Publications by Year
in descending order

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60 papers	1,379 citations	361045 20 h-index	344852 36 g-index
60 all docs	60 docs citations	60 times ranked	1160 citing authors

#	Article	IF	Citations
1	Carrier density and thickness-dependent proximity effect in doped-topological-insulatorâ€“metallic-ferromagnet bilayers. Physical Review B, 2021, 103, .	1.1	1
2	Observation of Josephson-like Tunneling Junction Characteristics and Positive Magnetoresistance in Oxygen Deficient Nickelate Films of Nd0.8Sr0.2NiO3â^Î´. Materials, 2021, 14, 7689.	1.3	1
3	Linear dichroism infrared resonance in overdoped, underdoped, and optimally doped cuprate superconductors. Physical Review B, 2020, 102, .	1.1	4
4	Infrared symmetry breaking in YBa2Cu3O7-x as a function of energy, doping, and temperature. , 2020, , .		0
5	Magnetic proximity effect of a topological insulator and a ferromagnet in thin film bilayers of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Bi</mml:mi><mml:mrow><mml:mn>0.5</ and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>SrRuO</mml:mi><mml:mn>3<. Physical Review B, 2018, 97, .	1.1	12
6	Unconventional order parameter induced by helical chiral molecules adsorbed on a metal proximity coupled to a superconductor. Physical Review B, 2018, 98, .	1.1	19
7	What can Andreev bound states tell us about superconductors?. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20140143.	1.6	5
8	Strongly suppressed proximity effect and ferromagnetism in topological insulator/ferromagnet/superconductor thin film trilayers of Bi2Se3/SrRuO3/underdoped YBa2Cu3O x : a possible new platform for Majorana nano-electronics. Superconductor Science and Technology, 2018, 31, 075004.	1.8	3
9	Magnetoresistance, Gating and Proximity Effects in Ultrathin NbN-Bi2Se3 Bilayers. Condensed Matter, 2017, 2, 14.	0.8	5
10	Observation of two distinct pairs fluctuation lifetimes and supercurrents in the pseudogap regime of cuprate junctions. Physical Review B, 2016, 94, .	1.1	10
11	Pairing and the phase diagram of the normal coherence length Î¾N(T, x) above Tc of La2â^'xSrxCuO4 thin films probed by the Josephson effect. Scientific Reports, 2015, 4, 6244.	1.6	9
12	Proximity effects at the interface of a superconductor and a topological insulator in NbN-Bi2Se3thin film bilayers. Superconductor Science and Technology, 2015, 28, 025003.	1.8	8
13	Optical Birefringence and Dichroism of Cuprate Superconductors in the THz Regime. Physical Review Letters, 2014, 112, 147001.	2.9	77
14	Magnetic field dependence of the proximity-induced triplet superconductivity at ferromagnet/superconductor interfaces. Physical Review B, 2014, 89, .	1.1	36
15	Signature of proximity-induced p _x + ip _y triplet pairing in the doped topological insulator Bi ₂ Se ₃ by the s-wave superconductor NbN. Physical Review B, 2013, 88, 174510.	0.7	33
16	Zero-energy bound states in tunneling conductance spectra at the interface of an <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>s</mml:mi></mml:math>-wave superconductor and a topological insulator in NbN/Bi<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Se<mml:math xmlns:mml="http://www.w3.org/1998/M	1.1	27
17	Experimental Determination of Correlations Between Spontaneously Formed Vortices in a Superconductor. Journal of Low Temperature Physics, 2011, 164, 74-80.	0.6	11
18	Photoinduced melting of superconductivity in the high-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi>T</mml:mi><mml:mrow><mml:mi>c</mml:mi></mml:mrow></mml:msub></mml:m La<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:mrow></mml:m	1.1	31

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19	Long-range proximity effect in La<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn><mml:mo>/</mml:mo><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>Ca<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>/</mml:mo><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>MnO3/YBa2Cu3O7 bilayers. Physical Review B, 2010, 81, .	1.1	79
20	Observation of Two Andreev-Like Energy Scales inLa2âˆ’xSrxCuO4Superconductorâ€“Normal-Metalâ€“Superconductor Junctions. Physical Review Letters, 2011, 106, 017002.	2.9	5
21	Spatial modulation of midgap states in (001)<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>La</mml:mtext></mml:mrow><mml:mrow><mml:mn>1.88</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>Indications for antiphase ordering of the<mml:math. Physical Review B, 2010, 81, .	1.1	9
22	Evidence for induced magnetization in superconductor-ferromagnet heterostructures: A scanning tunneling spectroscopy study. Physical Review B, 2009, 79, .	1.1	22
23	Conventional proximity effect in bilayers of superconducting underdopedLa1.88Sr0.12CuO4islands coated with nonsuperconducting overdopedLa1.65Sr0.35CuO4. Physical Review B, 2009, 80, .	1.1	10
24	Penetration of Andreev bound states into the ferromagnet in aSrRuO3â•(110)YBa2Cu3O7â˝Îbilayer: A scanning tunneling spectroscopy study. Physical Review B, 2007, 76, .	1.1	14
25	Evidence for crossed Andreev reflections in bilayers of (100)YBa2Cu3O7â˝Î´and the itinerant ferromagnetSrRuO3. Physical Review B, 2006, 74, .	1.1	39
26	Signature of a crossed Andreev reflection effect in the magnetic response ofYBa2Cu3O7â˝Îjunctions with the itinerant ferromagnetSrRuO3. Physical Review B, 2005, 72, .	1.1	17
27	Spontaneous Generation of Magnetic Flux in Superconductors: Testing the Model. Journal of Low Temperature Physics, 2004, 136, 379-384.	0.6	0
28	Title is missing!. Journal of Low Temperature Physics, 2003, 131, 849-858.	0.6	2
29	Spontaneous macroscopic magnetization at the superconducting transition temperature of YBa2Cu3O7-Î´. Nature, 2000, 404, 853-855.	13.7	55
30	Space-based high-temperature superconductivity experiment-design and performance. IEEE Transactions on Microwave Theory and Techniques, 2000, 48, 1289-1291.	2.9	9
31	Thickness-dependent transport properties of Nd2/3Sr1/3MnO3 thin films. Applied Physics Letters, 2000, 77, 1674-1676.	1.5	22
32	Substrate temperature dependence of structure and resistivity of SrRuO₃ thin films grown by pulsed laser deposition on (100) SrTiO₃. Journal of Materials Research, 1999, 14, 4385-4394.	1.2	50
33	Observation of Tomasch oscillations and tunneling-like behavior in oxygen-deficient edge junctions. Applied Physics Letters, 1999, 74, 3392-3394.	1.5	20
34	Lattice Defects in SrRuO3 Thin Films and Their Contribution to film Resistivity. Materials Research Society Symposia Proceedings, 1999, 574, 113.	0.1	0
35	Atomic-Scale Structure and Properties of Thin Epitaxial SrRuO3 Films Grown on SrTiO3 (100) by Pulsed Laser Deposition. Materials Research Society Symposia Proceedings, 1998, 541, 167.	0.1	2
36	Magnetization and flux creep in thin YBa2Cu3O7â˝Î´ films of various thickness. Journal of Applied Physics, 1997, 82, 4417-4423.	1.1	17

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37	Quasiparticle tunneling in HTS grain boundary Josephson junctions. Journal of Low Temperature Physics, 1997, 106, 243-248.	0.6	12
38	Quasiparticle tunneling in HTS bicrystal grain boundary junctions. European Physical Journal D, 1996, 46, 1301-1302.	0.4	0
39	Conductance zero bias anomaly in high temperature superconducting grain boundary Josephson junctions. European Physical Journal D, 1996, 46, 1303-1304.	0.4	5
40	Microwave power dependence of YBa2Cu3O7 thinâ€filmJosephson edge junctions. Applied Physics Letters, 1996, 68, 705-707.	1.5	40
41	Variable range hopping in PrBa2Cu3O7âˆ'Î´. Physica C: Superconductivity and Its Applications, 1991, 176, 75-79.	0.6	70
42	Properties of all YBa2Cu3O7Josephson edge junctions prepared byinsitulaser ablation deposition. Applied Physics Letters, 1991, 58, 634-636.	1.5	35
43	dc SQUID made of Agâ€doped YBa2Cu3O7aâ€bplaneâ€edge junctions. Applied Physics Letters, 1991, 59, 3634-3636.	1.5	7
44	Organometallic chemical vapor deposited layers of stabilized zirconia on sapphire as a substrate for laser ablated YBa2Cu3O7âˆ'xthin films. Applied Physics Letters, 1991, 58, 301-303.	1.5	20
45	Characteristics of all YBa2Cu3O7edge junctions operating above 80 K. Applied Physics Letters, 1991, 59, 2745-2747.	1.5	15
46	Femtosecond dynamics of quasi-particles in YBa/sub 2/Cu/sub 3/O/sub 7- delta / superconductor films. IEEE Transactions on Magnetics, 1991, 27, 1548-1551.	1.2	12
47	Integrated inductance bridge package for ac susceptibility measurements of superconducting thin films. Review of Scientific Instruments, 1990, 61, 1759-1760.	0.6	3
48	Localization and oxygen concentration in epitaxial YBa 2 Cu 3 O x thin films on (100) SrTiO 3 substrates deposited by laser ablation. Physica C: Superconductivity and Its Applications, 1989, 162-164, 1021-1022.	0.6	11
49	Epitaxial films of YBa2Cu3O7âˆ'Î´on NdGaO3, LaGaO3, and SrTiO3substrates deposited by laser ablation. Applied Physics Letters, 1989, 54, 1054-1056.	1.5	287
50	Plume temperature in the laser ablation of polyimide films measured by infrared emission spectroscopy. Applied Physics B, Photophysics and Laser Chemistry, 1988, 46, 147-149.	1.5	27
51	Observation of shock waves and cooling waves in the laser ablation of Kapton films in air. Applied Physics Letters, 1987, 51, 569-571.	1.5	51
52	Continuous wave laser assisted chemical material removal from Mo, W, and Si at faint red hot temperatures (700â€“800â€‰Â°C). Applied Physics Letters, 1985, 47, 1012-1014.	1.5	11
53	CO2laser assisted UV ablative photoetching of Kapton films. Applied Physics Letters, 1984, 45, 10-12.	1.5	36
54	Twoâ€frequency multiphoton absorption in UF6. Journal of Applied Physics, 1983, 54, 2827-2829.	1.1	4

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55	Isotopes separation experiments in natural UF6by CF4and CO2lasers, analyzed by gammaâ€ray spectrometry. Applied Physics Letters, 1982, 41, 397-399.	1.5	17
56	Transient population distribution of SF6gas excited by a CO2laser. Journal of Applied Physics, 1981, 52, 4915-4920.	1.1	3
57	Efficient V-V energy transfer in a multiphoton excited mixture of SF<inf>6</inf>and CF<inf>4</inf>. IEEE Journal of Quantum Electronics, 1980, 16, 1380-1387.	1.0	6
58	Intensity dependence of multiphoton dissociation in formaldehyde. Applied Physics Berlin, 1980, 21, 65-75.	1.4	5
59	Deuterium separation in formaldehyde by an intense pulsed CO2laser. Applied Physics Letters, 1976, 29, 40-42.	1.5	36
60	Microwave measurements of high Tc superconductors. , 0, , .		2