

Gad Koren

List of Publications by Year in descending order

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Version: 2024-02-01

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 | Epitaxial films of YBa ₂ Cu ₃ O _{7-δ} on NdGaO ₃ , LaGaO ₃ , and SrTiO ₃ substrates deposited by laser ablation. Applied Physics Letters, 1989, 54, 1054-1056. | 1.5 | 287 |
| 2 | Long-range proximity effect in La ₂ CuO ₄ . Physical Review Letters, 1993, 71, 1770-1773. | 1.1 | 79 |
| 3 | Optical Birefringence and Dichroism of Cuprate Superconductors in the THz Regime. Physical Review Letters, 2014, 112, 147001. | 2.9 | 77 |
| 4 | Variable range hopping in PrBa ₂ Cu ₃ O _{7-δ} . Physica C: Superconductivity and Its Applications, 1991, 176, 75-79. | 0.6 | 70 |
| 5 | Spontaneous macroscopic magnetization at the superconducting transition temperature of YBa ₂ Cu ₃ O _{7-δ} . Nature, 2000, 404, 853-855. | 13.7 | 55 |
| 6 | 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 |
| 7 | Substrate temperature dependence of structure and resistivity of SrRuO ₃ thin films grown by pulsed laser deposition on (100) SrTiO ₃ . Journal of Materials Research, 1999, 14, 4385-4394. | 1.2 | 50 |
| 8 | Microwave power dependence of YBa ₂ Cu ₃ O ₇ thin film Josephson edge junctions. Applied Physics Letters, 1996, 68, 705-707. | 1.5 | 40 |
| 9 | Evidence for crossed Andreev reflections in bilayers of (100)YBa ₂ Cu ₃ O _{7-δ} and the itinerant ferromagnet SrRuO ₃ . Physical Review B, 2006, 74, . | 1.1 | 39 |
| 10 | Deuterium separation in formaldehyde by an intense pulsed CO ₂ laser. Applied Physics Letters, 1976, 29, 40-42. | 1.5 | 36 |
| 11 | CO ₂ laser assisted UV ablative photoetching of Kapton films. Applied Physics Letters, 1984, 45, 10-12. | 1.5 | 36 |
| 12 | Magnetic field dependence of the proximity-induced triplet superconductivity at ferromagnet/superconductor interfaces. Physical Review B, 2014, 89, . | 1.1 | 36 |
| 13 | Properties of all YBa ₂ Cu ₃ O ₇ Josephson edge junctions prepared by in situ laser ablation deposition. Applied Physics Letters, 1991, 58, 634-636. | 1.5 | 35 |
| 14 | 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. Europhysics Letters, 2013, 103, 67010. | 0.7 | 33 |
| 15 | Proximity-induced triplet superconductivity in the high-T _c superconductor La ₂ CuO ₄ . Physical Review Letters, 1993, 71, 1770-1773. | 1.1 | 31 |
| 16 | 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 |
| 17 | Proximity-induced triplet superconductivity in the high-T _c superconductor and a topological insulator in NbN/Bi ₂ Se ₃ junctions. Physical Review B, 2014, 89, . | 1.1 | 27 |
| 18 | Thickness-dependent transport properties of Nd ₂ /Sr _{1/3} MnO ₃ thin films. Applied Physics Letters, 2000, 77, 1674-1676. | 1.5 | 22 |

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|----|---|-----|-----------|
| 19 | Evidence for induced magnetization in superconductor-ferromagnet heterostructures: A scanning tunneling spectroscopy study. Physical Review B, 2009, 79, . | 1.1 | 22 |
| 20 | Organometallic chemical vapor deposited layers of stabilized zirconia on sapphire as a substrate for laser ablated YBa ₂ Cu ₃ O _{7-x} thin films. Applied Physics Letters, 1991, 58, 301-303. | 1.5 | 20 |
| 21 | Observation of Tomashch oscillations and tunneling-like behavior in oxygen-deficient edge junctions. Applied Physics Letters, 1999, 74, 3392-3394. | 1.5 | 20 |
| 22 | 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 |
| 23 | Isotopes separation experiments in natural UF ₆ by CF ₄ and CO ₂ lasers, analyzed by gamma-ray spectrometry. Applied Physics Letters, 1982, 41, 397-399. | 1.5 | 17 |
| 24 | Magnetization and flux creep in thin YBa ₂ Cu ₃ O _{7-δ} films of various thickness. Journal of Applied Physics, 1997, 82, 4417-4423. | 1.1 | 17 |
| 25 | Signature of a crossed Andreev reflection effect in the magnetic response of YBa ₂ Cu ₃ O _{7-δ} junctions with the itinerant ferromagnet SrRuO ₃ . Physical Review B, 2005, 72, . | 1.1 | 17 |
| 26 | Characteristics of all YBa ₂ Cu ₃ O ₇ edge junctions operating above 80 K. Applied Physics Letters, 1991, 59, 2745-2747. | 1.5 | 15 |
| 27 | Penetration of Andreev bound states into the ferromagnet in a SrRuO ₃ /(110)YBa ₂ Cu ₃ O _{7-δ} bilayer: A scanning tunneling spectroscopy study. Physical Review B, 2007, 76, . | 1.1 | 14 |
| 28 | Femtosecond dynamics of quasi-particles in YBa ₂ /Cu ₃ /O _{7-δ} / superconductor films. IEEE Transactions on Magnetics, 1991, 27, 1548-1551. | 1.2 | 12 |
| 29 | Quasiparticle tunneling in HTS grain boundary Josephson junctions. Journal of Low Temperature Physics, 1997, 106, 243-248. | 0.6 | 12 |
| 30 | Magnetic proximity effect of a topological insulator and a ferromagnet in thin-film bilayers of Bi ₂ Se ₃ /SrRuO ₃ and SrRuO ₃ /Bi ₂ Se ₃ . Physical Review B, 2018, 97, . | 1.1 | 12 |
| 31 | Continuous wave laser assisted chemical material removal from Mo, W, and Si at faint red hot temperatures (700-800°C). Applied Physics Letters, 1985, 47, 1012-1014. | 1.5 | 11 |
| 32 | 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 |
| 33 | Experimental Determination of Correlations Between Spontaneously Formed Vortices in a Superconductor. Journal of Low Temperature Physics, 2011, 164, 74-80. | 0.6 | 11 |
| 34 | Conventional proximity effect in bilayers of superconducting underdoped La _{1.88} Sr _{0.12} CuO ₄ islands coated with nonsuperconducting overdoped La _{1.65} Sr _{0.35} CuO ₄ . Physical Review B, 2009, 80, . | 1.1 | 10 |
| 35 | Observation of two distinct pairs fluctuation lifetimes and supercurrents in the pseudogap regime of cuprate junctions. Physical Review B, 2016, 94, . | 1.1 | 10 |
| 36 | Space-based high-temperature superconductivity experiment-design and performance. IEEE Transactions on Microwave Theory and Techniques, 2000, 48, 1289-1291. | 2.9 | 9 |

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|----|---|-----|-----------|
| 37 | Spatial modulation of midgap states in (001) $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mtext} \rangle \text{La} \langle \text{mml:mtext} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 1.88 \langle \text{mml:mtext} \rangle$. Physical Review B, 2010, 81, . | 1.1 | 9 |
| 38 | Pairing and the phase diagram of the normal coherence length $\xi_N(T, x)$ above T_c of $\text{La}^{2-x}\text{Sr}_x\text{CuO}_4$ thin films probed by the Josephson effect. Scientific Reports, 2015, 4, 6244. | 1.6 | 9 |
| 39 | Proximity effects at the interface of a superconductor and a topological insulator in NbN-Bi ₂ Se ₃ thin film bilayers. Superconductor Science and Technology, 2015, 28, 025003. | 1.8 | 8 |
| 40 | dc SQUID made of Ag-doped YBa ₂ Cu ₃ O ₇ μs -plane μs -edge junctions. Applied Physics Letters, 1991, 59, 3634-3636. | 1.1 | 7 |
| 41 | Efficient V-V energy transfer in a multiphoton excited mixture of SF ₆ and CF ₄ . IEEE Journal of Quantum Electronics, 1980, 16, 1380-1387. | 1.0 | 6 |
| 42 | Intensity dependence of multiphoton dissociation in formaldehyde. Applied Physics Berlin, 1980, 21, 65-75. | 1.4 | 5 |
| 43 | Conductance zero bias anomaly in high temperature superconducting grain boundary Josephson junctions. European Physical Journal D, 1996, 46, 1303-1304. | 0.4 | 5 |
| 44 | Observation of Two Andreev-Like Energy Scales in $\text{La}^{2-x}\text{Sr}_x\text{CuO}_4$ Superconductor "Normal-Metal" Superconductor Junctions. Physical Review Letters, 2011, 106, 017002. | 2.9 | 5 |
| 45 | Magnetoresistance, Gating and Proximity Effects in Ultrathin NbN-Bi ₂ Se ₃ Bilayers. Condensed Matter, 2017, 2, 14. | 0.8 | 5 |
| 46 | What can Andreev bound states tell us about superconductors?. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20140143. | 1.6 | 5 |
| 47 | Two-frequency multiphoton absorption in UF ₆ . Journal of Applied Physics, 1983, 54, 2827-2829. | 1.1 | 4 |
| 48 | Linear dichroism infrared resonance in overdoped, underdoped, and optimally doped cuprate superconductors. Physical Review B, 2020, 102, . | 1.1 | 4 |
| 49 | Transient population distribution of SF ₆ gas excited by a CO ₂ laser. Journal of Applied Physics, 1981, 52, 4915-4920. | 1.1 | 3 |
| 50 | Integrated inductance bridge package for ac susceptibility measurements of superconducting thin films. Review of Scientific Instruments, 1990, 61, 1759-1760. | 0.6 | 3 |
| 51 | Strongly suppressed proximity effect and ferromagnetism in topological insulator/ferromagnet/superconductor thin film trilayers of Bi ₂ Se ₃ /SrRuO ₃ /underdoped YBa ₂ Cu ₃ O _x : a possible new platform for Majorana nano-electronics. Superconductor Science and Technology, 2018, 31, 075004. | 1.8 | 3 |
| 52 | Microwave measurements of high T_c superconductors. , 0, , . | | 2 |
| 53 | Atomic-Scale Structure and Properties of Thin Epitaxial SrRuO ₃ Films Grown on SrTiO ₃ (100) by Pulsed Laser Deposition. Materials Research Society Symposia Proceedings, 1998, 541, 167. | 0.1 | 2 |
| 54 | Title is missing!. Journal of Low Temperature Physics, 2003, 131, 849-858. | 0.6 | 2 |

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|----|--|-----|-----------|
| 55 | Carrier density and thickness-dependent proximity effect in doped-topological-insulator-metallic-ferromagnet bilayers. <i>Physical Review B</i> , 2021, 103, . | 1.1 | 1 |
| 56 | Observation of Josephson-like Tunneling Junction Characteristics and Positive Magnetoresistance in Oxygen Deficient Nickelate Films of $\text{Nd}_{0.8}\text{Sr}_{0.2}\text{NiO}_3$. <i>Materials</i> , 2021, 14, 7689. | 1.3 | 1 |
| 57 | Quasiparticle tunneling in HTS bicrystal grain boundary junctions. <i>European Physical Journal D</i> , 1996, 46, 1301-1302. | 0.4 | 0 |
| 58 | Lattice Defects in SrRuO_3 Thin Films and Their Contribution to film Resistivity. <i>Materials Research Society Symposia Proceedings</i> , 1999, 574, 113. | 0.1 | 0 |
| 59 | Spontaneous Generation of Magnetic Flux in Superconductors: Testing the Model. <i>Journal of Low Temperature Physics</i> , 2004, 136, 379-384. | 0.6 | 0 |
| 60 | Infrared symmetry breaking in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ as a function of energy, doping, and temperature. , 2020, , . | | 0 |