

Steven M Anlage

List of Publications by Year in descending order

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202
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times ranked

4143
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Classical Analogue of Electromagnetically Induced Transparency with a Metal-Superconductor Hybrid Metamaterial. <i>Physical Review Letters</i> , 2011, 107, 043901. | 2.9 | 251 |
| 2 | Temperature Dependence of Penetration Depth and Surface Resistance of Nd _{1.85} Ce _{0.15} CuO ₄ . <i>Physical Review Letters</i> , 1993, 70, 85-88. | 2.9 | 241 |
| 3 | Synthesis and properties of YBa ₂ Cu ₃ O ₇ thin films grown in situ by 90° off-axis single magnetron sputtering. <i>Physica C: Superconductivity and Its Applications</i> , 1990, 171, 354-383. | 0.6 | 239 |
| 4 | Measurement of resonant frequency and quality factor of microwave resonators: Comparison of methods. <i>Journal of Applied Physics</i> , 1998, 84, 3392-3402. | 1.1 | 205 |
| 5 | Wave Chaos Experiments with and without Time Reversal Symmetry: GUE and GOE Statistics. <i>Physical Review Letters</i> , 1995, 74, 2662-2665. | 2.9 | 157 |
| 6 | Superconducting metamaterials. <i>Applied Physics Letters</i> , 2005, 87, 034102. | 1.5 | 155 |
| 7 | Microwave shielding of transparent and conducting single-walled carbon nanotube films. <i>Applied Physics Letters</i> , 2007, 90, 183119. | 1.5 | 155 |
| 8 | Principles of Near-Field Microwave Microscopy. , 2007, , 215-253. | | 150 |
| 9 | Large group delay in a microwave metamaterial analog of electromagnetically induced transparency. <i>Applied Physics Letters</i> , 2010, 97, . | 1.5 | 147 |
| 10 | The physics and applications of superconducting metamaterials. <i>Journal of Optics (United Kingdom)</i> , 2011, 13, 024001. | 1.0 | 146 |
| 11 | Electrodynamics of Nd _{1.85} Ce _{0.15} CuO ₄ : Comparison with Nb and YBa ₂ Cu ₃ O ₇ . <i>Physical Review B</i> , 1994, 50, 523-535. | 1.1 | 143 |
| 12 | Universal Impedance Fluctuations in Wave Chaotic Systems. <i>Physical Review Letters</i> , 2005, 94, 014102. | 2.9 | 123 |
| 13 | Progress in superconducting metamaterials. <i>Superconductor Science and Technology</i> , 2014, 27, 073001. | 1.8 | 118 |
| 14 | Microwave Electrodynamics of Electron-Doped Cuprate Superconductors. <i>Physical Review Letters</i> , 2000, 85, 3696-3699. | 2.9 | 117 |
| 15 | Measurements of the temperature dependence of the magnetic penetration depth in YBa ₂ Cu ₃ O ₇ superconducting thin films. <i>Physical Review B</i> , 1991, 44, 9764-9767. | 1.1 | 116 |
| 16 | Evidence for power-law frequency dependence of intrinsic dielectric response in the CaCu ₃ Ti ₄ O ₁₂ . <i>Physical Review B</i> , 2004, 70, . | 1.1 | 110 |
| 17 | A broadband method for the measurement of the surface impedance of thin films at microwave frequencies. <i>Review of Scientific Instruments</i> , 1994, 65, 2082-2090. | 0.6 | 109 |
| 18 | Quantitative imaging of sheet resistance with a scanning near-field microwave microscope. <i>Applied Physics Letters</i> , 1998, 72, 861-863. | 1.5 | 109 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Anisotropic surface impedance of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ single crystals. <i>Physical Review B</i> , 1995, 51, 3316-3319. | 1.1 | 94 |
| 20 | Measurements of the magnetic penetration depth in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ thin films by the microstrip resonator technique. <i>Applied Physics Letters</i> , 1989, 54, 2710-2712. | 1.5 | 89 |
| 21 | Surface resistance imaging with a scanning near-field microwave microscope. <i>Applied Physics Letters</i> , 1997, 71, 1736-1738. | 1.5 | 89 |
| 22 | Imaging of microwave permittivity, tunability, and damage recovery in $(\text{Ba}_{1-x}\text{Sr}_x)\text{TiO}_3$ thin films. <i>Applied Physics Letters</i> , 1999, 75, 3180-3182. | 1.5 | 86 |
| 23 | Modulating Sub-THz Radiation with Current in Superconducting Metamaterial. <i>Physical Review Letters</i> , 2012, 109, 243904. | 2.9 | 85 |
| 24 | Predicting the statistics of wave transport through chaotic cavities by the random coupling model: A review and recent progress. <i>Wave Motion</i> , 2014, 51, 606-621. | 1.0 | 85 |
| 25 | Determination of the magnetization scaling exponent for single-crystal $\text{La}_{0.8}\text{Sr}_{0.2}\text{MnO}_3$ by broadband microwave surface impedance measurements. <i>Physical Review B</i> , 2000, 61, R870-R873. | 1.1 | 82 |
| 26 | Tunability of Superconducting Metamaterials. <i>IEEE Transactions on Applied Superconductivity</i> , 2007, 17, 918-921. | 1.1 | 81 |
| 27 | Universal statistics of the scattering coefficient of chaotic microwave cavities. <i>Physical Review E</i> , 2005, 71, 056215. | 0.8 | 80 |
| 28 | Critical currents, pinning, and edge barriers in narrow $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ thin films. <i>Physical Review B</i> , 1990, 41, 11203-11208. | 1.1 | 77 |
| 29 | Quantitative imaging of dielectric permittivity and tunability with a near-field scanning microwave microscope. <i>Review of Scientific Instruments</i> , 2000, 71, 2751-2758. | 0.6 | 75 |
| 30 | Point-node gap structure of the spin-triplet superconductor UTe_2 . <i>Physical Review B</i> , 2019, 100, . | 1.1 | 69 |
| 31 | Statistical Prediction and Measurement of Induced Voltages on Components Within Complicated Enclosures: A Wave-Chaotic Approach. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2012, 54, 758-771. | 1.4 | 68 |
| 32 | Magnetic penetration depth measurements of superconducting thin films by a microstrip resonator technique. <i>Review of Scientific Instruments</i> , 1991, 62, 1801-1812. | 0.6 | 64 |
| 33 | Large Dynamical Fluctuations in the Microwave Conductivity of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ above T_c . <i>Physical Review Letters</i> , 1996, 77, 4438-4441. | 2.9 | 62 |
| 34 | Imaging microwave electric fields using a near-field scanning microwave microscope. <i>Applied Physics Letters</i> , 1999, 74, 156-158. | 1.5 | 62 |
| 35 | Frequency and Field Variation of Vortex Dynamics in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$. <i>Physical Review Letters</i> , 1995, 75, 525-528. | 2.9 | 58 |
| 36 | Uniform, Scalable, High-Temperature Microwave Shock for Nanoparticle Synthesis through Defect Engineering. <i>Matter</i> , 2019, 1, 759-769. | 5.0 | 58 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | A novel STM-assisted microwave microscope with capacitance and loss imaging capability. <i>Ultramicroscopy</i> , 2003, 94, 209-216. | 0.8 | 57 |
| 38 | Characterization of fluctuations of impedance and scattering matrices in wave chaotic scattering. <i>Physical Review E</i> , 2006, 73, 046208. | 0.8 | 55 |
| 39 | Laser scanning microscopy of HTS films and devices (Review Article). <i>Low Temperature Physics</i> , 2006, 32, 592-607. | 0.2 | 54 |
| 40 | Nanometer-scale material contrast imaging with a near-field microwave microscope. <i>Applied Physics Letters</i> , 2007, 90, 143106. | 1.5 | 54 |
| 41 | Universal properties of two-port scattering, impedance, and admittance matrices of wave-chaotic systems. <i>Physical Review E</i> , 2006, 74, 036213. | 0.8 | 52 |
| 42 | Magnetic penetration depth measurements in cuprate superconductors. <i>Journal of Superconductivity and Novel Magnetism</i> , 1992, 5, 395-402. | 0.5 | 51 |
| 43 | DC magnetic field dependence of the surface impedance in superconducting parallel plate transmission line resonators. <i>IEEE Transactions on Applied Superconductivity</i> , 1993, 3, 2774-2777. | 1.1 | 51 |
| 44 | Effect of tip geometry on contrast and spatial resolution of the near-field microwave microscope. <i>Journal of Applied Physics</i> , 2006, 100, 044304. | 1.1 | 51 |
| 45 | Miniaturized superconducting metamaterials for radio frequencies. <i>Applied Physics Letters</i> , 2010, 96, 253504. | 1.5 | 50 |
| 46 | Probability Amplitude Fluctuations in Experimental Wave Chaotic Eigenmodes with and Without Time-Reversal Symmetry. <i>Physical Review Letters</i> , 1998, 81, 2890-2893. | 2.9 | 49 |
| 47 | A current controlled variable delay superconducting transmission line. <i>IEEE Transactions on Magnetics</i> , 1989, 25, 1388-1391. | 1.2 | 47 |
| 48 | Fluctuations in the microwave conductivity of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ single crystals in zero dc magnetic field. <i>Physical Review B</i> , 1996, 53, 2792-2796. | 1.1 | 47 |
| 49 | Single superconducting split-ring resonator electrostatics. <i>Applied Physics Letters</i> , 2006, 88, 264102. | 1.5 | 47 |
| 50 | Magnetic permeability imaging of metals with a scanning near-field microwave microscope. <i>Applied Physics Letters</i> , 2000, 77, 4404-4406. | 1.5 | 45 |
| 51 | Broadband dielectric microwave microscopy on micron length scales. <i>Review of Scientific Instruments</i> , 2007, 78, 044701. | 0.6 | 44 |
| 52 | Nonlinear Time Reversal in a Wave Chaotic System. <i>Physical Review Letters</i> , 2013, 110, 063902. | 2.9 | 44 |
| 53 | Realization and Modeling of Metamaterials Made of rf Superconducting Quantum-Interference Devices. <i>Physical Review X</i> , 2013, 3, . | 2.8 | 44 |
| 54 | <i>In situ</i> broadband cryogenic calibration for two-port superconducting microwave resonators. <i>Review of Scientific Instruments</i> , 2013, 84, 034706. | 0.6 | 42 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Penetration depth, microwave surface resistance, and gap ratio in NbN and Ba _{1-x} KxBiO ₃ thin films. Applied Physics Letters, 1994, 64, 244-246. | 1.5 | 39 |
| 56 | Switching nonlinearity in a superconductor-enhanced metamaterial. Applied Physics Letters, 2012, 100, 121906. | 1.5 | 39 |
| 57 | Anomalous normal fluid response in a chiral superconductor UTe ₂ . Nature Communications, 2021, 12, 2644. | 5.8 | 38 |
| 58 | Frequency- and electric-field-dependent conductivity of single-walled carbon nanotube networks of varying density. Physical Review B, 2008, 77, . | 1.1 | 37 |
| 59 | Experimental examination of the effect of short ray trajectories in two-port wave-chaotic scattering systems. Physical Review E, 2010, 82, 041114. | 0.8 | 37 |
| 60 | Superconducting RF Metamaterials Made With Magnetically Active Planar Spirals. IEEE Transactions on Applied Superconductivity, 2011, 21, 709-712. | 1.1 | 36 |
| 61 | Effect of dc electric field on the effective microwave surface impedance of YBa ₂ Cu ₃ O ₇ /SrTiO ₃ /YBa ₂ Cu ₃ O ₇ trilayers. Applied Physics Letters, 1993, 63, 3215-3217. | 1.5 | 34 |
| 62 | Quantitative topographic imaging using a near-field scanning microwave microscope. Applied Physics Letters, 1998, 72, 1778-1780. | 1.5 | 34 |
| 63 | Phase equilibria for the aluminum-rich region of the Al-Ru system. Journal of the Less Common Metals, 1988, 136, 237-247. | 0.9 | 33 |
| 64 | Scanned perturbation technique for imaging electromagnetic standing wave patterns of microwave cavities. Review of Scientific Instruments, 1998, 69, 3410-3417. | 0.6 | 33 |
| 65 | Near-Field Microwave Microscopy of Materials Properties. , 2001, , 239-269. | | 33 |
| 66 | Experimental test of universal conductance fluctuations by means of wave-chaotic microwave cavities. Physical Review B, 2006, 74, . | 1.1 | 33 |
| 67 | Perfect absorption in complex scattering systems with or without hidden symmetries. Nature Communications, 2020, 11, 5826. | 5.8 | 33 |
| 68 | Universal and nonuniversal properties of wave-chaotic scattering systems. Physical Review E, 2010, 81, 025201. | 0.8 | 30 |
| 69 | First-principles model of time-dependent variations in transmission through a fluctuating scattering environment. Physical Review E, 2012, 85, 015202. | 0.8 | 29 |
| 70 | Tunable Broadband Transparency of Macroscopic Quantum Superconducting Metamaterials. Physical Review X, 2015, 5, . | 2.8 | 29 |
| 71 | Microwave applications of photonic topological insulators. Applied Physics Letters, 2020, 116, 250502. | 1.5 | 29 |
| 72 | Influence of LaAlO ₃ surface topography on rf current distribution in superconducting microwave devices. Applied Physics Letters, 2002, 81, 4979-4981. | 1.5 | 28 |

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| 73 | Magnetic penetration depth measurements with the microstrip resonator technique. Journal of Superconductivity and Novel Magnetism, 1990, 3, 311-316. | 0.5 | 27 |
| 74 | Spatially-resolved nonlinearity measurements of YBa ₂ Cu ₃ O _{7-δ} bicrystal grain boundaries. Applied Physics Letters, 2003, 82, 1893-1895. | 1.5 | 27 |
| 75 | Doping-dependent nonlinear Meissner effect and spontaneous currents in high-T _c superconductors. Physical Review B, 2005, 71, . | 1.1 | 27 |
| 76 | Near-field microwave microscopy on nanometer length scales. Journal of Applied Physics, 2005, 97, 044302. | 1.1 | 27 |
| 77 | Measurement of Wave Chaotic Eigenfunctions in the Time-Reversal Symmetry-Breaking Crossover Regime. Physical Review Letters, 2000, 85, 2482-2485. | 2.9 | 26 |
| 78 | Near-field microwave microscope with improved sensitivity and spatial resolution. Review of Scientific Instruments, 2003, 74, 3167-3170. | 0.6 | 26 |
| 79 | Microscopic examination of hot spots giving rise to nonlinearity in superconducting resonators. Physical Review B, 2011, 84, . | 1.1 | 25 |
| 80 | A Statistical Model for the Excitation of Cavities Through Apertures. IEEE Transactions on Electromagnetic Compatibility, 2015, 57, 1049-1061. | 1.4 | 25 |
| 81 | Microwave Nonlinearities in High-T _c Superconductors: The Truth Is out There. Journal of Superconductivity and Novel Magnetism, 1999, 12, 353-362. | 0.5 | 24 |
| 82 | Unified model and reverse recovery nonlinearities of the driven diode resonator. Physical Review E, 2003, 68, 026201. | 0.8 | 24 |
| 83 | Sensor based on extending the concept of fidelity to classical waves. Applied Physics Letters, 2009, 95, . | 1.5 | 24 |
| 84 | Deposition and reduction of Nd _{1.85} Ce _{0.15} CuO _{4-δ} superconducting thin films. Applied Physics Letters, 1992, 61, 2356-2358. | 1.5 | 23 |
| 85 | dc electric field effect on the microwave properties of YBa ₂ Cu ₃ O ₇ /SrTiO ₃ layered structures. Journal of Applied Physics, 1994, 76, 2937-2950. | 1.1 | 23 |
| 86 | Exciting reflectionless unidirectional edge modes in a reciprocal photonic topological insulator medium. Physical Review B, 2016, 94, . | 1.1 | 23 |
| 87 | Microwave surface impedance of proximity-coupled Nb/Al bilayer films. Physical Review B, 1995, 52, 4477-4480. | 1.1 | 22 |
| 88 | Microwave near-field imaging of electric fields in a superconducting microstrip resonator. Applied Physics Letters, 1998, 73, 2491-2493. | 1.5 | 22 |
| 89 | Measurement of the absolute penetration depth and surface resistance of superconductors and normal metals with the variable spacing parallel plate resonator. Review of Scientific Instruments, 2000, 71, 2136-2146. | 0.6 | 22 |
| 90 | Unconventional rf photoresponse from a superconducting spiral resonator. Physical Review B, 2012, 85, . | 1.1 | 22 |

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| 91 | Time reversed electromagnetic wave propagation as a novel method of wireless power transfer. , 2016, , . | | 22 |
| 92 | Recursion method in thek-space representation. Physical Review B, 1986, 34, 2336-2345. | 1.1 | 21 |
| 93 | Imaging of microwave intermodulation fields in a superconducting microstrip resonator. Applied Physics Letters, 1999, 75, 2824-2826. | 1.5 | 21 |
| 94 | Quantifying volume changing perturbations in a wave chaotic system. New Journal of Physics, 2013, 15, 023025. | 1.2 | 21 |
| 95 | Application of the Random Coupling Model to Electromagnetic Statistics in Complex Enclosures. IEEE Transactions on Electromagnetic Compatibility, 2014, 56, 1480-1487. | 1.4 | 21 |
| 96 | Measuring the Complex Optical Conductivity of Graphene by Fabry-Pérot Reflectance Spectroscopy. Scientific Reports, 2016, 6, 34166. | 1.6 | 21 |
| 97 | Wavefront shaping with a tunable metasurface: Creating cold spots and coherent perfect absorption at arbitrary frequencies. Physical Review Research, 2020, 2, . | 1.3 | 21 |
| 98 | Measurement of local reactive and resistive photoresponse of a superconducting microwave device. Applied Physics Letters, 2006, 88, 212503. | 1.5 | 20 |
| 99 | High-temperature superconducting multi-band radio-frequency metamaterial atoms. Applied Physics Letters, 2013, 102, 013503. | 1.5 | 20 |
| 100 | Nonlinear time reversal of classical waves: Experiment and model. Physical Review E, 2013, 88, 062910. | 0.8 | 20 |
| 101 | Imaging the Anisotropic Nonlinear Meissner Effect in Nodal $\text{YBa}_2\text{Cu}_3\text{O}_7$ Superconductors. Physical Review Letters, 2013, 110, 087002. | 2.0 | 20 |
| 102 | Generalization of Wigner time delay to subunitary scattering systems. Physical Review E, 2021, 103, L050203. | 0.8 | 20 |
| 103 | Density-of-states calculations within the recursion method. Physical Review B, 1987, 36, 1725-1734. | 1.1 | 19 |
| 104 | Complex conductivity of proximity-superconducting Nb/Cu bilayers. Physical Review B, 1996, 54, 3508-3513. | 1.1 | 19 |
| 105 | Microwave nonlinearities of an isolated long $\text{YBa}_2\text{Cu}_3\text{O}_7$ bicrystal grain boundary. Physical Review B, 2005, 72, . | 1.1 | 19 |
| 106 | Effect of LaAlO_3 twin-domain topology on local dc and microwave properties of cuprate films. Journal of Applied Physics, 2010, 108, 033920. | 1.1 | 19 |
| 107 | Magnetic screening in proximity-coupled superconductor/normal-metal bilayers. Physical Review B, 1994, 50, 13659-13663. | 1.1 | 18 |
| 108 | Imaging local sources of intermodulation in superconducting microwave devices. IEEE Transactions on Applied Superconductivity, 2003, 13, 340-343. | 1.1 | 18 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 109 | Sensing small changes in a wave chaotic scattering system. <i>Journal of Applied Physics</i> , 2010, 108, 114911. | 1.1 | 18 |
| 110 | Focusing waves at arbitrary locations in a ray-chaotic enclosure using time-reversed synthetic sonas. <i>Physical Review E</i> , 2016, 93, 052205. | 0.8 | 18 |
| 111 | Microwave surface impedance of proximity-coupled superconducting (Nb)/spin-glass (CuMn) bilayers. <i>Physical Review B</i> , 1999, 59, 4455-4462. | 1.1 | 17 |
| 112 | Nonlinear Electromagnetic Time Reversal in an Open Semireverberant System. <i>Physical Review Applied</i> , 2014, 2, . | 1.5 | 17 |
| 113 | Superconducting material diagnostics using a scanning near-field microwave microscope. <i>IEEE Transactions on Applied Superconductivity</i> , 1999, 9, 4127-4132. | 1.1 | 16 |
| 114 | High-Temperature Superconducting Spiral Resonator for Metamaterial Applications. <i>IEEE Transactions on Applied Superconductivity</i> , 2013, 23, 1500304-1500304. | 1.1 | 16 |
| 115 | Plasmonic scaling of superconducting metamaterials. <i>Physical Review B</i> , 2013, 88, . | 1.1 | 16 |
| 116 | Prediction of Induced Voltages on Ports in Complex, Three-Dimensional Enclosures With Apertures, Using the Random Coupling Model. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2016, 58, 1535-1540. | 1.4 | 16 |
| 117 | Coherent oscillations of driven rf SQUID metamaterials. <i>Physical Review E</i> , 2017, 95, 050201. | 0.8 | 16 |
| 118 | Consequences of d-wave superconductivity for high frequency applications of cuprate superconductors. <i>IEEE Transactions on Applied Superconductivity</i> , 1995, 5, 1997-2000. | 1.1 | 15 |
| 119 | Microwave frequency ferroelectric domain imaging of deuterated triglycine sulfate crystals. <i>Journal of Applied Physics</i> , 2001, 89, 2314-2321. | 1.1 | 15 |
| 120 | Phase-sensitive harmonic measurements of microwave nonlinearities in cuprate thin films. <i>Physical Review B</i> , 2009, 80, . | 1.1 | 15 |
| 121 | Single Carbon Nanotube Schottky Diode Microwave Rectifiers. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2011, 59, 2726-2732. | 2.9 | 15 |
| 122 | Time-dependent Ginzburg-Landau treatment of rf magnetic vortices in superconductors: Vortex semiloops in a spatially nonuniform magnetic field. <i>Physical Review E</i> , 2020, 101, 033306. | 0.8 | 15 |
| 123 | Icosahedral phase formation in rapidly quenched aluminum-ruthenium alloys. <i>Journal of Materials Research</i> , 1988, 3, 421-425. | 1.2 | 14 |
| 124 | Structural characterization and microwave loss of Nd _{1.85} Ce _{0.15} CuO ₄ superconducting thin films on yttria-stabilized zirconia buffered sapphire. <i>Applied Physics Letters</i> , 1994, 64, 375-377. | 1.5 | 14 |
| 125 | Microwave Superconductivity. <i>IEEE Journal of Microwaves</i> , 2021, 1, 389-402. | 4.9 | 14 |
| 126 | Oxidation and reduction during fabrication of high quality Nd _{1.85} /Ce _{0.15} /CuO ₄ superconducting thin films. <i>IEEE Transactions on Applied Superconductivity</i> , 1993, 3, 1552-1555. | 1.1 | 13 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 127 | Nonlinear Near-Field Microwave Microscope for RF Defect Localization in Superconductors. IEEE Transactions on Applied Superconductivity, 2011, 21, 2615-2618. | 1.1 | 13 |
| 128 | Focusing an arbitrary RF pulse at a distance using time-reversal techniques. Journal of Electromagnetic Waves and Applications, 2013, 27, 1262-1275. | 1.0 | 13 |
| 129 | Intermodulation in nonlinear SQUID metamaterials: Experiment and theory. Physical Review B, 2016, 94, . | 1.1 | 13 |
| 130 | Statistics of Complex Wigner Time Delays as a Counter of S -Matrix Poles: Theory and Experiment. Physical Review Letters, 2021, 127, 204101. | 2.9 | 13 |
| 131 | $\text{Sr}/\text{AlTaO}/\text{YBa}/\text{Cu}/\text{O}$ heterostructures for superconducting device applications. IEEE Transactions on Applied Superconductivity, 1993, 3, 1425-1428. | 1.1 | 12 |
| 132 | Imaging of Microscopic Sources of Resistive and Reactive Nonlinearities in Superconducting Microwave Devices. IEEE Transactions on Applied Superconductivity, 2007, 17, 902-905. | 1.1 | 12 |
| 133 | Nanoscale nonlinear radio frequency properties of bulk Nb: Origins of extrinsic nonlinear effects. Physical Review B, 2015, 92, . | 1.1 | 12 |
| 134 | Efficient Statistical Model for Predicting Electromagnetic Wave Distribution in Coupled Enclosures. Physical Review Applied, 2020, 14, . | 1.5 | 12 |
| 135 | Low-loss $\text{YBa}_2\text{Cu}_3\text{O}_7$ films on flexible, polycrystalline-yttria-stabilized zirconia tapes for cryoelectronic applications. Applied Physics Letters, 2001, 78, 1888-1890. | 1.5 | 11 |
| 136 | Study of local nonlinear properties using a near-field microwave microscope. IEEE Transactions on Applied Superconductivity, 2003, 13, 3594-3597. | 1.1 | 11 |
| 137 | Universal critical behavior in single crystals and films of $\text{YBa}_2\text{Cu}_3\text{O}_7$. Physical Review B, 2009, 80, . | 1.1 | 11 |
| 138 | Near-field microwave magnetic nanoscopy of superconducting radio frequency cavity materials. Applied Physics Letters, 2014, 104, . | 1.5 | 11 |
| 139 | Microwave Current Imaging in Passive HTS Components by Low-Temperature Laser Scanning Microscopy (LTLSM). Journal of Superconductivity and Novel Magnetism, 2007, 19, 625-632. | 0.8 | 10 |
| 140 | Nanoscale Electrodynamic Response of Nb Superconductors. IEEE Transactions on Applied Superconductivity, 2013, 23, 7100104-7100104. | 1.1 | 10 |
| 141 | Tunable Negative Permeability in a Three-Dimensional Superconducting Metamaterial. Physical Review Applied, 2015, 3, . | 1.5 | 10 |
| 142 | Topologically protected photonic modes in composite quantum Hall/quantum spin Hall waveguides. Physical Review B, 2019, 100, . | 1.1 | 10 |
| 143 | Measurement of the absolute penetration depth and surface resistance of superconductors using the variable spacing parallel plate resonator. IEEE Transactions on Applied Superconductivity, 1999, 9, 2179-2182. | 1.1 | 9 |
| 144 | Low temperature laser scanning microscopy of a superconducting radio-frequency cavity. Review of Scientific Instruments, 2012, 83, 034704. | 0.6 | 9 |

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|-----|--|-----|-----------|
| 145 | Imaging the paramagnetic nonlinear Meissner effect in nodal gap superconductors. Physical Review B, 2018, 97, . | 1.1 | 9 |
| 146 | Wave scattering properties of multiple weakly coupled complex systems. Physical Review E, 2020, 101, 022201. | 0.8 | 9 |
| 147 | High Temperature Superconducting Radio Frequency Coils for NMR Spectroscopy and Magnetic Resonance Imaging. , 2001, , 337-352. | | 9 |
| 148 | Electron mobility in semiconductors. Physical Review B, 1982, 26, 2076-2084. | 1.1 | 8 |
| 149 | Dielectric resonator method for determining gap symmetry of superconductors through anisotropic nonlinear Meissner effect. Review of Scientific Instruments, 2019, 90, 043901. | 0.6 | 8 |
| 150 | Short-wavelength reverberant wave systems for physical realization of reservoir computing. Physical Review Research, 2022, 4, . | 1.3 | 8 |
| 151 | Local dielectric measurements of BaTiO ₃ â€“CoFe ₂ O ₄ nanocomposites through microwave microscopy. Journal of Materials Research, 2007, 22, 1193-1199. | 1.2 | 7 |
| 152 | Revealing underlying universal wave fluctuations in a scaled ray-chaotic cavity with remote injection. Physical Review E, 2018, 97, 062220. | 0.8 | 7 |
| 153 | High-Frequency Nonlinear Response of Superconducting Cavity-Grade Nb Surfaces. Physical Review Applied, 2019, 11, . | 1.5 | 7 |
| 154 | Deep-Learning Estimation of Complex Reverberant Wave Fields with a Programmable Metasurface. Physical Review Applied, 2022, 17, . | 1.5 | 7 |
| 155 | Use of transmission and reflection complex time delays to reveal scattering matrix poles and zeros: Example of the ring graph. Physical Review E, 2022, 105, . | 0.8 | 7 |
| 156 | Nonlinear wave chaos: statistics of second harmonic fields. Chaos, 2017, 27, 103114. | 1.0 | 6 |
| 157 | Imaging collective behavior in an rf-SQUID metamaterial tuned by DC and RF magnetic fields. Applied Physics Letters, 2019, 114, . | 1.5 | 6 |
| 158 | Electrical transport properties of the aluminum-ruthenium icosahedral phase. Physical Review B, 1988, 38, 7802-7805. | 1.1 | 5 |
| 159 | MgB_2 nonlinear properties investigated under localized high rf magnetic field excitation. Physical Review Special Topics: Accelerators and Beams, 2012, 15, . | 1.8 | 5 |
| 160 | The effects of non-uniform loss on time reversal mirrors. AIP Advances, 2014, 4, 087138. | 0.6 | 5 |
| 161 | Tunable superconducting Josephson dielectric metamaterial. AIP Advances, 2019, 9, 105320. | 0.6 | 5 |
| 162 | Large microwave inductance of granular boron-doped diamond superconducting films. Applied Physics Letters, 2021, 118, . | 1.5 | 5 |

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|-----|--|-----|-----------|
| 163 | Temperature dependence of the magnetic penetration depth in Nb, NbCN and YBa ₂ Cu ₃ O _{7-δ} thin films. Physica B: Condensed Matter, 1991, 169, 671-672. | 1.3 | 4 |
| 164 | Random Coupling Model for interconnected wireless environments. , 2014, , . | | 4 |
| 165 | Modeling the nanoscale linear response of superconducting thin films measured by a scanning probe microwave microscope. Journal of Applied Physics, 2014, 115, . | 1.1 | 4 |
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