

Marc Scheffler

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5767258/publications.pdf>

Version: 2024-02-01

56
papers

1,187
citations

361413

20
h-index

377865

34
g-index

56
all docs

56
docs citations

56
times ranked

1244
citing authors

#	ARTICLE	IF	CITATIONS
1	The Higgs mode in disordered superconductors close to a quantum phase transition. Nature Physics, 2015, 11, 188-192.	16.7	137
2	Extremely slow Drude relaxation of correlated electrons. Nature, 2005, 438, 1135-1137.	27.8	95
3	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. Physical Review B, 2000, 61, R870-R873.	3.2	82
4	Enhanced Cooper pairing versus suppressed phase coherence shaping the superconducting dome in coupled aluminum nanograins. Physical Review B, 2016, 93, .	3.2	70
5	Broadband microwave spectroscopy in Corbino geometry for temperatures down to 1.7 K. Review of Scientific Instruments, 2005, 76, 074702.	1.3	57
6	Electrodynamics of the Superconducting State in Ultra-Thin Films at THz Frequencies. IEEE Transactions on Terahertz Science and Technology, 2013, 3, 269-280.	3.1	52
7	Quasiparticle response of superconducting aluminum to electromagnetic radiation. Physical Review B, 2008, 77, .	3.2	47
8	Microwave spectroscopy on heavy f -fermion systems: Probing the dynamics of charges and magnetic moments. Physica Status Solidi (B): Basic Research, 2013, 250, 439-449.	1.5	41
9	Observing electron spin resonance between 0.1 and 67 μGHz at temperatures between 50 mK and 300 μK using broadband metallic coplanar waveguides. Applied Physics Letters, 2015, 106, .	3.3	40
10	Gapped magnetic ground state in quantum spin liquid candidate $\hat{\text{I}}^2\text{-(BEDT-TTF)}_2\text{Cu}_2\text{(CN)}_3$. Science, 2021, 372, 276-279.	12.6	38
11	Single-Gap Superconductivity and Dome of Superfluid Density in Nb-Doped SrTiO_3 . Physical Review Letters, 2018, 120, 237002.	7.8	37
12	Broadband electron spin resonance from 500 μMHz to 40 μGHz using superconducting coplanar waveguides. Applied Physics Letters, 2013, 102, .	3.3	36
13	Direct observation of the superconducting gap in a thin film of titanium nitride using terahertz spectroscopy. Physical Review B, 2012, 86, .	3.2	34
14	Optical signatures of the superconducting Goldstone mode in granular aluminum: Experiments and theory. Physical Review B, 2017, 96, .	3.2	29
15	Signature of electronic correlations in the optical conductivity of the doped semiconductor Si:P. Physical Review B, 2007, 75, .	3.2	27
16	Surface-resistance measurements using superconducting stripline resonators. Review of Scientific Instruments, 2014, 85, 014702.	1.3	26
17	Single spin optically detected magnetic resonance with 60-90 GHz (E-band) microwave resonators. Review of Scientific Instruments, 2015, 86, 064704.	1.3	26
18	Microwave inductance of thin metal strips. Journal of Applied Physics, 2010, 108, .	2.5	22

#	ARTICLE	IF	CITATIONS
19	Dynamics of heavy fermions: Drude response in and. Physica B: Condensed Matter, 2006, 378-380, 993-994.	2.7	21
20	Microwave conductivity of heavy fermions in UPd2Al3. European Physical Journal B, 2010, 74, 331-338.	1.5	21
21	Broadband microwave spectroscopy in Corbino geometry at 3He temperatures. Review of Scientific Instruments, 2012, 83, 024704.	1.3	20
22	Superconducting energy scales and anomalous dissipative conductivity in thin films of molybdenum nitride. Physical Review B, 2016, 94, .	3.2	19
23	Strip-shaped samples in a microwave Corbino spectrometer. Review of Scientific Instruments, 2007, 78, 086106.	1.3	18
24	Broadband Corbino spectroscopy and stripline resonators to study the microwave properties of superconductors. Acta IMEKO (2012), 2015, 4, 47.	0.7	16
25	Metallic coplanar resonators optimized for low-temperature measurements. Journal Physics D: Applied Physics, 2016, 49, 395501.	2.8	14
26	Stripline resonators for cryogenic microwave spectroscopy on metals and superconductors. Journal of Physics: Conference Series, 2012, 400, 052031.	0.4	11
27	Terahertz conductivity of SrTiO_3 . Physical Review B, 2016, 93, .	3.2	10
28	Superconducting coplanar microwave resonators with operating frequencies up to 50 GHz. Journal Physics D: Applied Physics, 2018, 51, 465301.	2.8	10
29	Terahertz conductivity of the heavy-fermion compound UNi_3Al . Physical Review B, 2011, 84, .	3.2	9
30	Superconducting Pb stripline resonators in parallel magnetic field and their application for microwave spectroscopy. Superconductor Science and Technology, 2016, 29, 115004.	3.5	9
31	Microwave study of superconducting Sn films above and below percolation. Superconductor Science and Technology, 2016, 29, 085011.	3.5	9
32	Indium tin oxide films meet circular Rydberg atoms: Prospects for novel quantum simulation schemes. Physical Review Research, 2020, 2, .	3.6	9
33	Crossover from Coulomb glass to Fermi glass in Si:P. Physica B: Condensed Matter, 2005, 359-361, 1469-1471.	2.7	8
34	Terahertz Conductivity of the Heavy-Fermion State in CeCoIn_5 . Journal of the Physical Society of Japan, 2013, 82, 043712.	1.6	8
35	Complete electrodynamics of a BCS superconductor with $\hat{1}/4\text{eV}$ energy scales: Microwave spectroscopy on titanium at mK temperatures. Physical Review B, 2018, 97, .	3.2	8
36	On-Chip ESR Measurements of DPPH at mK Temperatures. Physics Procedia, 2015, 75, 503-510.	1.2	7

#	ARTICLE	IF	CITATIONS
37	Fabry-Perot resonances in birefringent YAlO ₃ analyzed at terahertz frequencies. Optics Letters, 2009, 34, 3520.	3.3	6
38	Observing the anisotropic optical response of the heavy-fermion compound UNi ₂ Al ₃ . Physica Status Solidi (B): Basic Research, 2010, 247, 760-762.	1.5	6
39	Optimization of Coplanar Waveguide Resonators for ESR Studies on Metals. Journal of Physics: Conference Series, 2015, 592, 012146.	0.4	5
40	Signatures of Phase Transitions in the Microwave Response of YbRh ₂ Si ₂ . Physics Procedia, 2015, 75, 340-347.	1.2	5
41	Direct observation of Drude behavior in the heavy-fermion by broadband microwave spectroscopy. Physica B: Condensed Matter, 2005, 359-361, 1150-1152.	2.7	4
42	Low-temperature microwave response of heavy-fermion compounds. Journal of Physics: Conference Series, 2009, 150, 042174.	0.4	4
43	Broadband microwave study of SrRuO ₃ and CaRuO ₃ thin films. Journal of Physics: Conference Series, 2012, 391, 012091.	0.4	4
44	Microwave resonances in dielectric samples probed in Corbino geometry: Simulation and experiment. Review of Scientific Instruments, 2013, 84, 114703.	1.3	4
45	Niobium stripline resonators for microwave studies on superconductors. Journal of Physics: Conference Series, 2014, 568, 022043.	0.4	4
46	Characterizing dielectric properties of ultra-thin films using superconducting coplanar microwave resonators. Review of Scientific Instruments, 2019, 90, 114701.	1.3	4
47	Cryogenic frequency-domain electron spin resonance spectrometer based on coplanar waveguides and field modulation. Review of Scientific Instruments, 2020, 91, 025106.	1.3	4
48	Charge carrier dynamics of the heavy-fermion metal CeCoIn ₅ probed by THz spectroscopy. Journal of Magnetism and Magnetic Materials, 2016, 400, 31-35.	2.3	3
49	Angle-dependent electron spin resonance of YbRh ₂ Si ₂ measured with planar microwave resonators and in-situ rotation. Physica B: Condensed Matter, 2018, 536, 221-224.	1.7	3
50	Role of non-linear effects and standing waves in microwave spectroscopy: Corbino measurements on superconductors and VO ₂ . Review of Scientific Instruments, 2019, 90, 034704.	1.3	3
51	Microwave probing of bulk dielectrics using superconducting coplanar resonators in distant-flip-chip geometry. Review of Scientific Instruments, 2020, 91, 054702.	1.3	2
52	Influence of impurity scattering on Drude response in heavy-fermion UPd ₂ Al ₃ . Journal of Physics: Conference Series, 2010, 200, 012175.	0.4	1
53	Anomalous Microwave Surface Resistance of CeCu ₆ . , 2014, , .		1
54	One Kelvin means 21 GHz: Probing superconductors with low-frequency optics. , 2017, , .		1

#	ARTICLE	IF	CITATIONS
55	Back Cover: Microwave spectroscopy on heavy-fermion systems: Probing the dynamics of charges and magnetic moments (Phys. Status Solidi B 3/2013). Physica Status Solidi (B): Basic Research, 2013, 250, .	1.5	0
56	Superconducting stripline resonators at frequencies up to 50 GHz for microwave spectroscopy applications. Journal of Physics: Conference Series, 2018, 969, 012082.	0.4	0