

Marc Scheffler

List of Publications by Year in descending order

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56
papers

1,187
citations

361413

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377865

34
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docs citations

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times ranked

1244
citing authors

#	ARTICLE	IF	CITATIONS
1	Gapped magnetic ground state in quantum spin liquid candidate $\hat{\Gamma}^2$ -(BEDT-TTF) ₂ Cu ₂ (CN) ₃ . Science, 2021, 372, 276-279.	12.6	38
2	Microwave probing of bulk dielectrics using superconducting coplanar resonators in distant-flip-chip geometry. Review of Scientific Instruments, 2020, 91, 054702.	1.3	2
3	Cryogenic frequency-domain electron spin resonance spectrometer based on coplanar waveguides and field modulation. Review of Scientific Instruments, 2020, 91, 025106.	1.3	4
4	Indium tin oxide films meet circular Rydberg atoms: Prospects for novel quantum simulation schemes. Physical Review Research, 2020, 2, .	3.6	9
5	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
6	Characterizing dielectric properties of ultra-thin films using superconducting coplanar microwave resonators. Review of Scientific Instruments, 2019, 90, 114701.	1.3	4
7	Angle-dependent electron spin resonance of YbRh_2O_4 measured with planar microwave resonators and in-situ rotation. Physica B: Condensed Matter, 2018, 536, 221-224.	1.7	4
8	Superconducting coplanar microwave resonators with operating frequencies up to 50 GHz. Journal Physics D: Applied Physics, 2018, 51, 465301.	2.8	10
9	Single-Gap Superconductivity and Dome of Superfluid Density in Nb-Doped SrTiO_3 . Physical Review Letters, 2018, 120, 237002.	7.8	37
10	Superconducting stripline resonators at frequencies up to 50 GHz for microwave spectroscopy applications. Journal of Physics: Conference Series, 2018, 969, 012082.	0.4	0
11	Complete electrodynamics of a BCS superconductor with $\hat{\Gamma}^2/4\text{eV}$ energy scales: Microwave spectroscopy on titanium at mK temperatures. Physical Review B, 2018, 97, .	3.2	8
12	Optical signatures of the superconducting Goldstone mode in granular aluminum: Experiments and theory. Physical Review B, 2017, 96, .	3.2	29
13	One Kelvin means 21 GHz: Probing superconductors with low-frequency optics. , 2017, , .		1
14	Superconducting Pb stripline resonators in parallel magnetic field and their application for microwave spectroscopy. Superconductor Science and Technology, 2016, 29, 115004.	3.5	9
15	Microwave study of superconducting Sn films above and below percolation. Superconductor Science and Technology, 2016, 29, 085011.	3.5	9
16	Superconducting energy scales and anomalous dissipative conductivity in thin films of molybdenum nitride. Physical Review B, 2016, 94, .	3.2	19
17	Enhanced Cooper pairing versus suppressed phase coherence shaping the superconducting dome in coupled aluminum nanograins. Physical Review B, 2016, 93, .	3.2	70
18	Terahertz conductivity of SrTiO_3 . Physical Review B, 2016, 93, .	3.2	10

#	ARTICLE	IF	CITATIONS
19	Metallic coplanar resonators optimized for low-temperature measurements. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 395501.	2.8	14
20	Charge carrier dynamics of the heavy-fermion metal CeCoIn ₅ probed by THz spectroscopy. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 400, 31-35.	2.3	3
21	On-Chip ESR Measurements of DPPH at mK Temperatures. <i>Physics Procedia</i> , 2015, 75, 503-510.	1.2	7
22	Optimization of Coplanar Waveguide Resonators for ESR Studies on Metals. <i>Journal of Physics: Conference Series</i> , 2015, 592, 012146.	0.4	5
23	The Higgs mode in disordered superconductors close to a quantum phase transition. <i>Nature Physics</i> , 2015, 11, 188-192.	16.7	137
24	Observing electron spin resonance between 0.1 and 67 GHz at temperatures between 50 mK and 300 K using broadband metallic coplanar waveguides. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	40
25	Single spin optically detected magnetic resonance with 60-90 GHz (E-band) microwave resonators. <i>Review of Scientific Instruments</i> , 2015, 86, 064704.	1.3	26
26	Signatures of Phase Transitions in the Microwave Response of YbRh ₂ Si ₂ . <i>Physics Procedia</i> , 2015, 75, 340-347.	1.2	5
27	Broadband Corbino spectroscopy and stripline resonators to study the microwave properties of superconductors. <i>Acta IMEKO (2012)</i> , 2015, 4, 47.	0.7	16
28	Anomalous Microwave Surface Resistance of CeCu ₆ . , 2014, , .		1
29	Surface-resistance measurements using superconducting stripline resonators. <i>Review of Scientific Instruments</i> , 2014, 85, 014702.	1.3	26
30	Niobium stripline resonators for microwave studies on superconductors. <i>Journal of Physics: Conference Series</i> , 2014, 568, 022043.	0.4	4
31	Electrodynamics of the Superconducting State in Ultra-Thin Films at THz Frequencies. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2013, 3, 269-280.	3.1	52
32	Back Cover: Microwave spectroscopy on heavy-fermion systems: Probing the dynamics of charges and magnetic moments (<i>Phys. Status Solidi B</i> 3/2013). <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, .	1.5	0
33	Terahertz Conductivity of the Heavy-Fermion State in CeCoIn ₅ . <i>Journal of the Physical Society of Japan</i> , 2013, 82, 043712.	1.6	8
34	Broadband electron spin resonance from 500 MHz to 40 GHz using superconducting coplanar waveguides. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	36
35	Microwave resonances in dielectric samples probed in Corbino geometry: Simulation and experiment. <i>Review of Scientific Instruments</i> , 2013, 84, 114703.	1.3	4
36	Microwave spectroscopy on heavy-fermion systems: Probing the dynamics of charges and magnetic moments. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 439-449.	1.5	41

#	ARTICLE	IF	CITATIONS
37	Broadband microwave spectroscopy in Corbino geometry at 3He temperatures. Review of Scientific Instruments, 2012, 83, 024704.	1.3	20
38	Broadband microwave study of SrRuO ₃ and CaRuO ₃ thin films. Journal of Physics: Conference Series, 2012, 391, 012091.	0.4	4
39	Stripline resonators for cryogenic microwave spectroscopy on metals and superconductors. Journal of Physics: Conference Series, 2012, 400, 052031.	0.4	11
40	Direct observation of the superconducting gap in a thin film of titanium nitride using terahertz spectroscopy. Physical Review B, 2012, 86, .	3.2	34
41	Terahertz conductivity of the heavy-fermion compound UNi ₂ Al ₃ . Physical Review B, 2011, 84, .	3.2	9
42	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
43	Microwave inductance of thin metal strips. Journal of Applied Physics, 2010, 108, .	2.5	22
44	Microwave conductivity of heavy fermions in UPd ₂ Al ₃ . European Physical Journal B, 2010, 74, 331-338.	1.5	21
45	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
46	Fabry-Perot resonances in birefringent YAIO ₃ analyzed at terahertz frequencies. Optics Letters, 2009, 34, 3520.	3.3	6
47	Low-temperature microwave response of heavy-fermion compounds. Journal of Physics: Conference Series, 2009, 150, 042174.	0.4	4
48	Quasiparticle response of superconducting aluminum to electromagnetic radiation. Physical Review B, 2008, 77, .	3.2	47
49	Strip-shaped samples in a microwave Corbino spectrometer. Review of Scientific Instruments, 2007, 78, 086106.	1.3	18
50	Signature of electronic correlations in the optical conductivity of the doped semiconductor Si:P. Physical Review B, 2007, 75, .	3.2	27
51	Dynamics of heavy fermions: Drude response in and. Physica B: Condensed Matter, 2006, 378-380, 993-994.	2.7	21
52	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
53	Crossover from Coulomb glass to Fermi glass in Si:P. Physica B: Condensed Matter, 2005, 359-361, 1469-1471.	2.7	8
54	Extremely slow Drude relaxation of correlated electrons. Nature, 2005, 438, 1135-1137.	27.8	95

#	ARTICLE	IF	CITATIONS
55	Broadband microwave spectroscopy in Corbino geometry for temperatures down to 1.7 K. Review of Scientific Instruments, 2005, 76, 074702.	1.3	57
56	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