

Hans-Joachim Krause

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

179
papers

2,405
citations

24
h-index

39
g-index

184
ext. papers

2,683
ext. citations

2.9
avg, IF

4.57
L-index

#	Paper	IF	Citations
179	Development of Fast and Portable Frequency Magnetic Mixing-Based Serological SARS-CoV-2-Specific Antibody Detection Assay. <i>Frontiers in Microbiology</i> , 2021 , 12, 643275	5.7	7
178	Magnetic graphene quantum dots facilitate closed-tube one-step detection of SARS-CoV-2 with ultra-low field NMR relaxometry. <i>Sensors and Actuators B: Chemical</i> , 2021 , 337, 129786	8.5	11
177	Harmonic Analysis and Self-Tuning Control Combining Wavelet Analysis and Identification for High-Tc RF SQUID. <i>IEEE Transactions on Applied Superconductivity</i> , 2021 , 31, 1-5	1.8	0
176	Weakly Damped SQUID 2020 , 139-156		
175	Two-Stage and Double Relaxation Oscillation Readout Schemes 2020 , 157-170		
174	Radio-Frequency (rf) SQUID 2020 , 171-223		
173	Josephson Junctions 2020 , 9-14		
172	dc SQUID's I _V Characteristics and Its Bias Modes 2020 , 15-21		
171	Direct Readout Scheme (DRS) 2020 , 33-44		
170	SQUID Magnetometric System and SQUID Parameters 2020 , 45-59		
169	Flux Modulation Scheme (FMS) 2020 , 61-83		
168	Flux Feedback Concepts and Parallel Feedback Circuit 2020 , 85-120		
167	Analyses of the Series Feedback Coil (Circuit) (SFC) 2020 , 121-138		
166	Sensitive Aflatoxin B1 Detection Using Nanoparticle-Based Competitive Magnetic Immunodetection. <i>Toxins</i> , 2020 , 12,	4.9	9
165	A Novel Method for Antibiotic Detection in Milk Based on Competitive Magnetic Immunodetection. <i>Foods</i> , 2020 , 9,	4.9	5
164	A novel three-dimensional magnetic particle imaging system based on the frequency mixing for the point-of-care diagnostics. <i>Scientific Reports</i> , 2020 , 10, 11833	4.9	6
163	Harmonic Analysis of High-Tc Rf SQUID to Determine the Optimum Working Condition for Its Automatic Application. <i>IEEE Transactions on Applied Superconductivity</i> , 2020 , 30, 1-6	1.8	0

162	Measurement of the permanent electric dipole moment of the Xe129 atom. <i>Physical Review A</i> , 2019 , 100,	2.6	22
161	Simulation and Measurements of Transient Fields From Conductive Plates of Shielded Room for SQUID-Based Ultralow Field Magnetic Resonance Imaging. <i>IEEE Transactions on Applied Superconductivity</i> , 2019 , 29, 1-5	1.8	2
160	Sensor Configuration and Algorithms for Power-Line Interference Suppression in Low Field Nuclear Magnetic Resonance. <i>Sensors</i> , 2019 , 19,	3.8	2
159	Multiplex Detection of Different Magnetic Beads Using Frequency Scanning in Magnetic Frequency Mixing Technique. <i>Sensors</i> , 2019 , 19,	3.8	10
158	Sensitive and rapid detection of cholera toxin subunit B using magnetic frequency mixing detection. <i>PLoS ONE</i> , 2019 , 14, e0219356	3.7	11
157	Electro-optic sensor for static fields. <i>Applied Physics B: Lasers and Optics</i> , 2019 , 125, 1	1.9	0
156	Construction of 3D-rendering imaging of an ischemic rat brain model using the planar FMMD technique. <i>Scientific Reports</i> , 2019 , 9, 19050	4.9	4
155	A new limit of the 129Xenon Electric Dipole Moment. <i>EPJ Web of Conferences</i> , 2019 , 219, 02003	0.3	
154	3D Printed Modular Immunofiltration Columns for Frequency Mixing-Based Multiplex Magnetic Immunodetection. <i>Sensors</i> , 2019 , 19,	3.8	7
153	Measurement of the magnetophoretic velocity of different superparamagnetic beads. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 477, 244-248	2.8	9
152	Magnetic Detection Structure for Lab-on-Chip Applications Based on the Frequency Mixing Technique. <i>Sensors</i> , 2018 , 18,	3.8	13
151	Adaptive suppression of power line interference in ultra-low field magnetic resonance imaging in an unshielded environment. <i>Journal of Magnetic Resonance</i> , 2018 , 286, 52-59	3	10
150	Optimized Continuous Application of Hyperpolarized Xenon to Liquids. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 9359-9369	2.8	1
149	Biosensing near the neutrality point of graphene. <i>Science Advances</i> , 2017 , 3, e1701247	14.3	48
148	Biomagnetic Sensing. <i>Springer Series on Chemical Sensors and Biosensors</i> , 2017 , 449-474	2	
147	Precise measurement of magnetic field gradients from free spin precession signals of 3He and 129Xe magnetometers. <i>European Physical Journal D</i> , 2017 , 71, 1	1.3	11
146	Prototype of Multi-Channel High-Tc SQUID Metallic Contaminant Detector for Large Sized Packaged Food. <i>IEICE Transactions on Electronics</i> , 2017 , E100.C, 269-273	0.4	5
145	Magnetic Detection Structure for LOC Immunoassays, Multiphysics Simulations and Experimental Results. <i>Proceedings (mdpi)</i> , 2017 , 1, 529	0.3	2

144	Statistical study of biomechanics of living brain cells during growth and maturation on artificial substrates. <i>Biomaterials</i> , 2016 , 106, 240-9	15.6	13
143	On-chip electromagnetic tweezers - 3-dimensional particle actuation using microwire crossbar arrays. <i>Lab on A Chip</i> , 2016 , 16, 4749-4758	7.2	8
142	Frequency Mixing Magnetic Detection Scanner for Imaging Magnetic Particles in Planar Samples. <i>Journal of Visualized Experiments</i> , 2016 ,	1.6	1
141	Magnetic immunoassay platform based on the planar frequency mixing magnetic technique. <i>Biosensors and Bioelectronics</i> , 2016 , 83, 293-9	11.8	17
140	HP-Xe to go: Storage and transportation of hyperpolarized (129)Xenon. <i>Journal of Magnetic Resonance</i> , 2016 , 265, 197-9	3	2
139	A magnetic nanoparticles relaxation sensor for protein-protein interaction detection at ultra-low magnetic field. <i>Biosensors and Bioelectronics</i> , 2016 , 80, 661-665	11.8	24
138	Harmonic Analysis for Finding the Optimum Working Point of High-Tc RF SQUID. <i>IEEE Transactions on Applied Superconductivity</i> , 2016 , 26, 1-4	1.8	3
137	Flux modulation scheme for direct current SQUID readout revisited. <i>Applied Physics Letters</i> , 2016 , 108, 062601	3.4	4
136	Implementation and application of a novel 2D magnetic twisting cytometry based on multi-pole electromagnet. <i>Review of Scientific Instruments</i> , 2016 , 87, 064301	1.7	9
135	Passivation of magnetic material used in cell culture environment. <i>Sensors and Actuators B: Chemical</i> , 2016 , 236, 85-90	8.5	2
134	Electrolyte-Gated Graphene Ambipolar Frequency Multipliers for Biochemical Sensing. <i>Nano Letters</i> , 2016 , 16, 2295-300	11.5	28
133	Design and Characterization of Microwave Cavity Resonators for Noninvasive Monitoring of Plant Water Distribution. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2016 , 64, 2894-2904	4.1	6
132	Simple and portable magnetic immunoassay for rapid detection and sensitive quantification of plant viruses. <i>Applied and Environmental Microbiology</i> , 2015 , 81, 3039-48	4.8	33
131	Effect of magnetic field fluctuation on ultra-low field MRI measurements in the unshielded laboratory environment. <i>Journal of Magnetic Resonance</i> , 2015 , 257, 8-14	3	5
130	Practical dc SQUID system: Devices and electronics. <i>Physica C: Superconductivity and Its Applications</i> , 2015 , 518, 73-76	1.3	9
129	Magnetic tweezers with high permeability electromagnets for fast actuation of magnetic beads. <i>Review of Scientific Instruments</i> , 2015 , 86, 044701	1.7	42
128	Characterization of the mechanical properties of HL-1 cardiomyocytes with high throughput magnetic tweezers. <i>Applied Physics Letters</i> , 2015 , 107, 053703	3.4	6
127	New Method for a Continuous Determination of the Spin Tune in Storage Rings and Implications for Precision Experiments. <i>Physical Review Letters</i> , 2015 , 115, 094801	7.4	42

126	Superconducting Quantum Interference (SQUIDs) 2015 , 949-1110		1
125	SQUIDs in Nondestructive Evaluation 2015 , 1-15		2
124	An inspection of force reduction in high force electromagnetic tweezers made of FeCo-V foil by laser cutting. <i>Journal of Applied Physics</i> , 2015 , 118, 124701	2.5	5
123	Magnetic particle imaging with a planar frequency mixing magnetic detection scanner. <i>Review of Scientific Instruments</i> , 2014 , 85, 013705	1.7	12
122	In situ measurement of superoxide and hydroxyl radicals by frequency mixing detection technique. <i>Analytical Biochemistry</i> , 2014 , 447, 141-5	3.1	4
121	Magnetic immunoassay based on frequency mixing magnetic detection and magnetic particles of different magnetic properties. <i>Analytical Methods</i> , 2014 , 6, 8055-8058	3.2	4
120	A simple SQUID system with one operational amplifier as readout electronics. <i>Superconductor Science and Technology</i> , 2014 , 27, 115004	3.1	11
119	Analysis of a dc SQUID readout scheme with voltage feedback circuit and low-noise preamplifier. <i>Superconductor Science and Technology</i> , 2014 , 27, 085011	3.1	5
118	Investigation of Helium-Cooled Planar Transformer-Coupled SQUID Magnetometer. <i>Journal of Physics: Conference Series</i> , 2014 , 507, 042051	0.3	
117	High-sensitivity cooled coil system for nuclear magnetic resonance in kHz range. <i>Review of Scientific Instruments</i> , 2014 , 85, 114708	1.7	21
116	Investigation and optimization of low-frequency noise performance in readout electronics of dc superconducting quantum interference device. <i>Review of Scientific Instruments</i> , 2014 , 85, 054707	1.7	9
115	Tuned HTS SQUID-Detected Low Field MRI Using a Permanent Magnet for Pre-polarization With Automatic Transportation. <i>IEEE Transactions on Applied Superconductivity</i> , 2013 , 23, 1601104-1601104	1.8	5
114	Ultra-low field magnetic resonance imaging detection with gradient tensor compensation in urban unshielded environment. <i>Applied Physics Letters</i> , 2013 , 102, 102602	3.4	18
113	Statistical characterization of voltage-biased SQUIDs with weakly damped junctions. <i>Superconductor Science and Technology</i> , 2013 , 26, 065002	3.1	10
112	A SQUID Bootstrap Circuit with a Large Parameter Tolerance. <i>Chinese Physics Letters</i> , 2013 , 30, 018501	1.8	2
111	High intrinsic noise and absence of hysteresis in superconducting quantum interference devices with large Stewart-McCumber parameter. <i>Applied Physics Letters</i> , 2013 , 103, 042601	3.4	13
110	Study of weakly damped superconducting quantum interference devices operated in different bias modes in presence of external shunt resistance. <i>Applied Physics Letters</i> , 2013 , 103, 122605	3.4	11
109	M(H) shape reconstruction using magnetic spectroscopy. <i>Journal of Magnetism and Magnetic Materials</i> , 2012 , 324, 895-902	2.8	2

108	Size and Compositional Effects on Contrast Efficiency of Functionalized Superparamagnetic Nanoparticles at Ultralow and Ultrahigh Magnetic Fields. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 17880-17884	3.8	12
107	Low-field MRI measurements using a tuned HTS SQUID as detector and permanent magnet pre-polarization field. <i>Superconductor Science and Technology</i> , 2012 , 25, 075013	3.1	13
106	Noise Behavior of SQUID Bootstrap Circuit Studied by Numerical Simulation. <i>Physics Procedia</i> , 2012 , 36, 127-132		2
105	Permanent Magnet Pre-Polarization in Low Field MRI Measurements Using SQUID. <i>Physics Procedia</i> , 2012 , 36, 274-279		3
104	Novel Stable and Reliable Readout Electronics for HTS rf SQUID. <i>Physics Procedia</i> , 2012 , 36, 306-311		6
103	Magnetic Field Improved ULF-NMR Measurement in an Unshielded Laboratory Using a Low-Tc SQUID. <i>Physics Procedia</i> , 2012 , 36, 388-393		7
102	A SQUID gradiometer module with wire-wound pickup antenna and integrated voltage feedback circuit. <i>Physica C: Superconductivity and Its Applications</i> , 2012 , 480, 10-13	1.3	8
101	On-chip control of magnetic particles. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012 , 209, 871-874	1.6	5
100	Determination of heavy metal ions by microchip capillary electrophoresis coupled with contactless conductivity detection. <i>Electrophoresis</i> , 2012 , 33, 1247-50	3.6	15
99	Time-Domain Frequency Correction Method for Averaging Low-Field NMR Signals Acquired in Urban Laboratory Environment. <i>Chinese Physics Letters</i> , 2012 , 29, 107601	1.8	3
98	An insight into voltage-biased superconducting quantum interference devices. <i>Applied Physics Letters</i> , 2012 , 101, 222602	3.4	18
97	Actuation and tracking of a single magnetic particle on a chip. <i>Applied Physics Letters</i> , 2012 , 100, 014107	3.4	4
96	In situ analysis of free radicals from the photodecomposition of hydrogen peroxide using a frequency-mixing magnetic detector. <i>Applied Physics Letters</i> , 2012 , 101, 054105	3.4	5
95	Effect of voltage source internal resistance on the SQUID bootstrap circuit. <i>Superconductor Science and Technology</i> , 2012 , 25, 015012	3.1	2
94	Parameter tolerance of the SQUID bootstrap circuit. <i>Superconductor Science and Technology</i> , 2012 , 25, 015006	3.1	6
93	Planar SQUID magnetometer integrated with bootstrap circuitry under different bias modes. <i>Superconductor Science and Technology</i> , 2012 , 25, 125007	3.1	13
92	Reconstruction of Magnetization Curve Using Magnetic Spectroscopy. <i>Springer Proceedings in Physics</i> , 2012 , 275-279	0.2	
91	Relaxation behavior study of ultrasmall superparamagnetic iron oxide nanoparticles at ultralow and ultrahigh magnetic fields. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 14789-93	3.4	15

90	Voltage Biased SQUID Bootstrap Circuit: Circuit Model and Numerical Simulation. <i>IEEE Transactions on Applied Superconductivity</i> , 2011 , 21, 354-357	1.8	9
89	Comparison of Noise Performance of the dc SQUID Bootstrap Circuit With That of the Standard Flux Modulation dc SQUID Readout Scheme. <i>IEEE Transactions on Applied Superconductivity</i> , 2011 , 21, 501-504	1.8	9
88	Low Field MRI Detection With Tuned HTS SQUID Magnetometer. <i>IEEE Transactions on Applied Superconductivity</i> , 2011 , 21, 509-513	1.8	9
87	Detection of two different influenza A viruses using a nitrocellulose membrane and a magnetic biosensor. <i>Journal of Immunological Methods</i> , 2011 , 365, 95-100	2.5	22
86	A simple poly(dimethylsiloxane) electrophoresis microchip with an integrated contactless conductivity detector. <i>Mikrochimica Acta</i> , 2011 , 172, 193-198	5.8	12
85	A simplified poly(dimethylsiloxane) capillary electrophoresis microchip integrated with a low-noise contactless conductivity detector. <i>Electrophoresis</i> , 2011 , 32, 699-704	3.6	22
84	Einsatz von Magnetfiltern in der Bioverfahrenstechnik. Teil 3 [Neues Messverfahren zur Quantifizierung von Magnetbeads in strömenden Suspensionen. <i>Chemie-Ingenieur-Technik</i> , 2011 , 83, 851-857	0.8	7
83	Analytical Model for the Extraction of Flaw-Induced Current Interactions for SQUID NDE. <i>IEEE Transactions on Applied Superconductivity</i> , 2011 , 21, 3442-3446	1.8	5
82	An approach to optimization of the superconducting quantum interference device bootstrap circuit. <i>Superconductor Science and Technology</i> , 2011 , 24, 079601	3.1	7
81	An approach to optimization of the superconducting quantum interference device bootstrap circuit. <i>Superconductor Science and Technology</i> , 2011 , 24, 065023	3.1	8
80	A voltage biased superconducting quantum interference device bootstrap circuit. <i>Superconductor Science and Technology</i> , 2010 , 23, 065016	3.1	28
79	Magnetic flux leakage (MFL) for the non-destructive evaluation of pre-stressed concrete structures 2010 , 215-242		7
78	Comparison of different detectors in low field NMR measurements. <i>Journal of Physics: Conference Series</i> , 2010 , 234, 042008	0.3	5
77	Prüfung von Spannbetonbauteilen mit magnetischen Methoden. <i>Beton- Und Stahlbetonbau</i> , 2010 , 105, 154-164	1	4
76	Analysis of Some Nondestructive Evaluation Experiments Using Eddy Currents. <i>Research in Nondestructive Evaluation</i> , 2009 , 20, 159-177	0.9	2
75	The Effect of Low Frequency Disturbance to SQUID Based Low Field NMR. <i>IEEE Transactions on Applied Superconductivity</i> , 2009 , 19, 827-830	1.8	3
74	Optimization of NDE Characterization Parameters for a RF-SQUID Based System Using FEM Analysis. <i>IEEE Transactions on Applied Superconductivity</i> , 2009 , 19, 791-795	1.8	14
73	Suppression of ringing in the tuned input circuit of a SQUID detector used in low-field NMR measurements. <i>Superconductor Science and Technology</i> , 2009 , 22, 125022	3.1	21

72	Non-invasive determination of plant biomass with microwave resonators. <i>Plant, Cell and Environment</i> , 2009 , 32, 368-79	8.4	26
71	Overview of low-field NMR measurements using HTS rf-SQUIDs. <i>Physica C: Superconductivity and Its Applications</i> , 2009 , 469, 1624-1629	1.3	18
70	Low-field NMR measurement procedure when SQUID detection is used. <i>Journal of Magnetic Resonance</i> , 2009 , 196, 101-4	3	20
69	High-Performance Low-Field NMR Utilizing a High- T_c rf SQUID. <i>IEEE Transactions on Applied Superconductivity</i> , 2009 , 19, 831-834	1.8	8
68	SQUID-detected NMR in Earth's magnetic field. <i>Journal of Physics: Conference Series</i> , 2008 , 97, 012026	0.3	2
67	Non destructive testing (NDT) with high T_c RF SQUIDs. <i>Journal of Physics: Conference Series</i> , 2008 , 97, 012263	0.3	2
66	Radar-Magnet-Betontest: Eine neue Methode zur Bestimmung der Feuchte und des Chloridgehalts von Brückenfahrbahnplatten aus Beton. <i>Beton- Und Stahlbetonbau</i> , 2007 , 102, 825-834	1	3
65	Influence of the first amplifier stage in MEA systems on extracellular signal shapes. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 1092-6	11.8	14
64	CRP determination based on a novel magnetic biosensor. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 973-9	11.8	109
63	Magnetic particle detection by frequency mixing for immunoassay applications. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 311, 436-444	2.8	115
62	Francisella tularensis detection using magnetic labels and a magnetic biosensor based on frequency mixing. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 311, 259-263	2.8	33
61	Liquid state nuclear magnetic resonance at low fields using a nitrogen cooled superconducting quantum interference device. <i>Applied Physics Letters</i> , 2007 , 90, 182503	3.4	33
60	High-temperature superconducting quantum interference device with cooled LC resonant circuit for measuring alternating magnetic fields with improved signal-to-noise ratio. <i>Review of Scientific Instruments</i> , 2007 , 78, 054701	1.7	23
59	Nuclear magnetic resonance in the earth's magnetic field using a nitrogen-cooled superconducting quantum interference device. <i>Applied Physics Letters</i> , 2007 , 91, 072505	3.4	40
58	Magnetic biosensor for the detection of Yersinia pestis. <i>Journal of Microbiological Methods</i> , 2007 , 68, 218-24	2.8	66
57	Recording fMCG and adult MCG using multi-channel HTS rf SQUID gradiometers. <i>International Congress Series</i> , 2007 , 1300, 769-772		1
56	Inspection of Prestressed Concrete Members using the Magnetic Leakage Flux Measurement Method [Estimation of Detection Limit 2007 , 639-649		3
55	The set-up of a high temperature superconductor radio-frequency SQUID microscope for magnetic nanoparticle detection. <i>Superconductor Science and Technology</i> , 2006 , 19, S261-S265	3.1	8

54	Signal enhancement techniques for rf SQUID based magnetic imaging systems. <i>Superconductor Science and Technology</i> , 2006 , 19, 821-824	3.1	2
53	Foetal magnetocardiography with a multi-channel HTS rf SQUID gradiometer. <i>Superconductor Science and Technology</i> , 2006 , 19, S266-S270	3.1	9
52	Front-end Assembly Optimization for High-Tcrf-SQUID based Magnetic Field Imaging Systems. <i>Journal of Physics: Conference Series</i> , 2006 , 43, 1239-1242	0.3	
51	Detection of magnetic contaminations in industrial products using HTS SQUIDs. <i>IEEE Transactions on Applied Superconductivity</i> , 2005 , 15, 729-732	1.8	34
50	Multi-channel HTS rf SQUID gradiometer system recording fetal and adult magnetocardiograms. <i>IEEE Transactions on Applied Superconductivity</i> , 2005 , 15, 631-634	1.8	14
49	Appearance of sign reversal in geophysical transient electromagnetics with a SQUID due to stacking. <i>IEEE Transactions on Applied Superconductivity</i> , 2005 , 15, 745-748	1.8	13
48	Reproducibility and reliability of fetal cardiac time intervals using magnetocardiography. <i>Physiological Measurement</i> , 2004 , 25, 539-52	2.9	28
47	Analysis of electrical characteristics and magnetic field dependences of YBCO step edge and bicrystal grain boundary junctions for rf-SQUID applications. <i>Superconductor Science and Technology</i> , 2004 , 17, S375-S380	3.1	2
46	Reply by the authors to the discussion by Brian R. Spies. <i>Geophysics</i> , 2004 , 69, 626-628	3.1	
45	Adaptive frequency dependent gradiometry applied to SQUID magnetocardiography. <i>IEEE Transactions on Applied Superconductivity</i> , 2003 , 13, 364-367	1.8	5
44	REGISTRATION OF FETAL CARDIAC ACTIVITY USING LTS AND HTS SQUID BIOMAGNETOMETERS. <i>Biomedizinische Technik</i> , 2003 , 48, 372-373	1.3	1
43	Long baseline hardware gradiometer based on HTS rf-SQUIDs with substrate resonators. <i>IEEE Transactions on Applied Superconductivity</i> , 2003 , 13, 841-844	1.8	2
42	Noise, junction characteristics, and magnetic field dependencies of bicrystal grain boundary junction rf-SQUIDs. <i>IEEE Transactions on Applied Superconductivity</i> , 2003 , 13, 873-876	1.8	4
41	Conductivity tomography for non-destructive evaluation using pulsed eddy current with HTS SQUID magnetometer. <i>IEEE Transactions on Applied Superconductivity</i> , 2003 , 13, 215-218	1.8	16
40	Defect detection in thick aircraft samples based on HTS SQUID-magnetometry and pattern recognition. <i>IEEE Transactions on Applied Superconductivity</i> , 2003 , 13, 250-253	1.8	13
39	Junction characteristics and magnetic field dependencies of low noise step edge junction rf-SQUIDs for unshielded applications. <i>IEEE Transactions on Applied Superconductivity</i> , 2003 , 13, 833-836	1.8	6
38	HTS SQUID gradiometer using substrate resonators operating in an unshielded environment - a portable MCG system. <i>IEEE Transactions on Applied Superconductivity</i> , 2003 , 13, 389-392	1.8	18
37	Recording fetal and adult magnetocardiograms using high-temperature Superconducting quantum interference device gradiometers. <i>IEEE Transactions on Applied Superconductivity</i> , 2003 , 13, 3862-3866	1.8	9

36	Berührungslose Messung von Korrosionsströmen an Kontaktelementen mit Hochtemperatur SQUID-Sensoren in magnetisch nicht abgeschirmter Umgebung. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2002 , 53, 417-421	1.6	2
35	Recent developments in SQUID NDE. <i>Physica C: Superconductivity and Its Applications</i> , 2002 , 368, 70-79	1.3	72
34	Defect detection in thick aircraft samples using HTS SQUID magnetometers. <i>Physica C: Superconductivity and Its Applications</i> , 2002 , 368, 85-90	1.3	19
33	SQUID array for magnetic inspection of prestressed concrete bridges. <i>Physica C: Superconductivity and Its Applications</i> , 2002 , 368, 91-95	1.3	32
32	Non-constant bias current for dc SQUID operation. <i>Physica C: Superconductivity and Its Applications</i> , 2002 , 368, 181-184	1.3	3
31	Peculiarities of SQUID magnetometer application in TEM. <i>Geophysics</i> , 2002 , 67, 739-745	3.1	13
30	Effects of the step structure on the yield, operating temperature, and the noise in step-edge Josephson junction rf-SQUID magnetometers and gradiometers. <i>Physica C: Superconductivity and Its Applications</i> , 2001 , 354, 40-44	1.3	8
29	Effect of repetitive transmitter signals on SQUID response in geophysical TEM. <i>IEEE Transactions on Applied Superconductivity</i> , 2001 , 11, 888-891	1.8	9
28	Multiplexed SQUID array for non-destructive evaluation of aircraft structures. <i>IEEE Transactions on Applied Superconductivity</i> , 2001 , 11, 1168-1171	1.8	5
27	Aircraft wheel testing with remote eddy current technique using a HTS SQUID magnetometer. <i>IEEE Transactions on Applied Superconductivity</i> , 2001 , 11, 1279-1282	1.8	22
26	Defect detection and classification using a SQUID based multiple frequency eddy current NDE system. <i>IEEE Transactions on Applied Superconductivity</i> , 2001 , 11, 1032-1037	1.8	20
25	SQUID gradiometry for magnetocardiography using different noise cancellation techniques. <i>IEEE Transactions on Applied Superconductivity</i> , 2001 , 11, 673-676	1.8	12
24	1/f noise characteristics of SEJ Y-Ba-Cu-O rf-SQUIDs on LaAlO ₃ /sub 3/ substrate and the step structure, film, and temperature dependence. <i>IEEE Transactions on Applied Superconductivity</i> , 2001 , 11, 1363-1366	1.8	11
23	Magnetic field behavior of YBCO step-edge Josephson junctions in rf-washer SQUIDs. <i>IEEE Transactions on Applied Superconductivity</i> , 2001 , 11, 1339-1342	1.8	5
22	Nondestructive evaluation using high-temperature SQUIDs. <i>Physica C: Superconductivity and Its Applications</i> , 2000 , 335, 179-183	1.3	16
21	Second-order, high-temperature superconducting gradiometer for magnetocardiography in unshielded environment. <i>Applied Physics Letters</i> , 2000 , 76, 906-908	3.4	34
20	Aircraft wheel testing with machine-cooled HTS SQUID gradiometer system. <i>IEEE Transactions on Applied Superconductivity</i> , 1999 , 9, 3801-3804	1.8	38
19	HTS SQUID magnetometer with SQUID vector reference for operation in unshielded environment. <i>IEEE Transactions on Applied Superconductivity</i> , 1999 , 9, 3684-3687	1.8	10

18	Operation of HTS dc-SQUID sensors in high magnetic fields. <i>IEEE Transactions on Applied Superconductivity</i> , 1999 , 9, 3386-3391	1.8	13
17	Operation of rf SQUID magnetometers with a multi-turn flux transformer integrated with a superconducting labyrinth resonator. <i>IEEE Transactions on Applied Superconductivity</i> , 1999 , 9, 3396-3400	1.8	11
16	Radio frequency bias current scheme for dc superconducting quantum interference device. <i>IEEE Transactions on Applied Superconductivity</i> , 1999 , 9, 3813-3816	1.8	
15	Magnetic field measurements on bridges and development of a mobile SQUID system 1999 ,		2
14	Radio frequency SQUIDs operating at 77 K with 1 GHz lumped-element tank circuits. <i>Applied Physics Letters</i> , 1998 , 72, 969-971	3.4	35
13	Eddy current tomography using rotating magnetic fields for deep SQUID NDE. <i>Superconductor Science and Technology</i> , 1997 , 10, 901-903	3.1	
12	Compensation techniques for high-temperature superconducting quantum interference device gradiometers operating in unshielded environment. <i>Review of Scientific Instruments</i> , 1997 , 68, 3082-3084	1.7	6
11	Eddy-current nondestructive material evaluation by high-temperature SQUID gradiometer using rotating magnetic fields. <i>IEEE Transactions on Applied Superconductivity</i> , 1997 , 7, 2874-2877	1.8	12
10	Operation of HTS SQUIDs with a portable cryostat: a SQUID system in conjunction with eddy current technique for non-destructive evaluation. <i>IEEE Transactions on Applied Superconductivity</i> , 1997 , 7, 2878-2881	1.8	15
9	Planar HTS gradiometers with large baseline. <i>IEEE Transactions on Applied Superconductivity</i> , 1997 , 7, 2866-2869	1.8	34
8	HTS SQUID system with Joule-Thomson cryocooler for eddy current nondestructive evaluation of aircraft structures. <i>IEEE Transactions on Applied Superconductivity</i> , 1997 , 7, 2860-2865	1.8	28
7	Dc-SQUID magnetometers and gradiometers on the basis of quasiplanar ramp-type Josephson junctions. <i>IEEE Transactions on Applied Superconductivity</i> , 1997 , 7, 3702-3705	1.8	20
6	Compensation techniques for HTS-rf-SQUID magnetometers operating in unshielded environments. <i>Applied Superconductivity</i> , 1997 , 5, 333-338		2
5	Eddy current technique with high temperature SQUID for non-destructive evaluation of non-magnetic metallic structures. <i>Cryogenics</i> , 1996 , 36, 83-86	1.8	51
4	Applications of high-temperature SQUIDs. <i>Applied Superconductivity</i> , 1995 , 3, 367-381		17
3	Identification of strained silicon layers at Si-SiO ₂ interfaces and clean Si surfaces by nonlinear optical spectroscopy. <i>Physical Review Letters</i> , 1993 , 71, 1234-1237	7.4	202
2	Nondestructive Evaluation of Materials and Structures using SQUIDs		441-479
1	Brief Communication: Magnetic Immuno-Detection of SARS-CoV-2 specific Antibodies		8

