

Michael E Tobar

List of Publications by Year in descending order

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454
papers

10,145
citations

38742

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58581

82
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465
all docs

465
docs citations

465
times ranked

4921
citing authors

#	ARTICLE	IF	CITATIONS
1	Precision Multi-Mode Dielectric Characterization of a Crystalline Perovskite Enables Determination of the Temperature-Dependent Phase Transitions. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 423-429.	3.0	1
2	Poynting vector controversy in axion modified electrodynamics. Physical Review D, 2022, 105, .	4.7	16
3	Generation of bimodal solitons in a sapphire whispering-gallery-mode maser at millikelvin temperatures. Physical Review A, 2022, 105, .	2.5	2
4	Characterization of Cryogenic Material Properties of 3-D-Printed Superconducting Niobium Using a 3-D Lumped Element Microwave Cavity. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-7.	4.7	3
5	Resonances in large ferrimagnetic YIG samples " Electrodynamic analysis. Journal of Magnetism and Magnetic Materials, 2021, 521, 167536.	2.3	4
6	Electrodynamics of Free- and Bound-Charge Electricity Generators Using Impressed Sources. Physical Review Applied, 2021, 15, .	3.8	9
7	Searching for Scalar Dark Matter via Coupling to Fundamental Constants with Photonic, Atomic, and Mechanical Oscillators. Physical Review Letters, 2021, 126, 071301.	7.8	26
8	Upconversion Loop Oscillator Axion Detection Experiment: A Precision Frequency Interferometric Axion Dark Matter Search with a Cylindrical Microwave Cavity. Physical Review Letters, 2021, 126, 081803.	7.8	19
9	Gravitational wave detectors with broadband high frequency sensitivity. Communications Physics, 2021, 4, .	5.3	26
10	Broadband sensitivity improvement via coherent quantum feedback with PT-symmetry. , 2021, , .		2
11	Noise Suppression With Cryogenic Resonators. IEEE Microwave and Wireless Components Letters, 2021, 31, 405-408.	3.2	3
12	Rare Events Detected with a Bulk Acoustic Wave High Frequency Gravitational Wave Antenna. Physical Review Letters, 2021, 127, 071102.	7.8	20
13	Point-to-point stabilized optical frequency transfer with active optics. Nature Communications, 2021, 12, 515.	12.8	40
14	Precision Frequency Techniques to Search for Dark Matter and New Physics with Photonic, Phononic and Atomic Oscillators. , 2021, , .		0
15	Challenges and opportunities of gravitational-wave searches at MHz to GHz frequencies. Living Reviews in Relativity, 2021, 24, 1.	26.7	105
16	Search for Invisible Axion Dark Matter in the $3.3 < m < 4.2 \text{ eV} < /math$ Mass Range. Physical Review Letters, 2021, 127, 261803.	7.8	127
17	Casimir spring and dilution in macroscopic cavity optomechanics. Nature Physics, 2020, 16, 1117-1122.	16.7	13
18	Dielectric-Boosted Sensitivity to Cylindrical Azimuthally Varying Transverse-Magnetic Resonant Modes in an Axion Haloscope. Physical Review Applied, 2020, 14, .	3.8	15

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19	Generation of coherent phonons via a cavity enhanced photonic lambda scheme. Applied Physics Letters, 2020, 117, .	3.3	2
20	Determination of niobium cavity magnetic field screening via a dispersively hybridized magnonic sensor. Applied Physics Letters, 2020, 117, .	3.3	3
21	Methods for coherent optical Doppler orbitography. Journal of Geodesy, 2020, 94, 1.	3.6	8
22	Broadband electrical action sensing techniques with conducting wires for low-mass dark matter axion detection. Physics of the Dark Universe, 2020, 30, 100624.	4.9	16
23	Generation of ultralow power phononic combs. Physical Review Research, 2020, 2, .	3.6	13
24	The ORGAN Experiment. Springer Proceedings in Physics, 2020, , 37-43.	0.2	3
25	Modified axion electrodynamics as impressed electromagnetic sources through oscillating background polarization and magnetization. Physics of the Dark Universe, 2019, 26, 100339.	4.9	35
26	Experimental implementations of cavity-magnon systems: from ultra strong coupling to applications in precision measurement. New Journal of Physics, 2019, 21, 095004.	2.9	54
27	Bulk Acoustic Wave Resonator-Oscillators and Tests of Fundamental Physics. , 2019, , .		0
28	Ferroelectric phase transition and crystal asymmetry monitoring of SrTiO3 using quasi $TE_{1,1}$ and quasi $TM_{1,1}$ modes. Journal of Applied Physics, 2019, 126, .	2.5	2
29	Axion detection with precision frequency metrology. Physics of the Dark Universe, 2019, 26, 100345.	4.9	26
30	Testing the generalized uncertainty principle with macroscopic mechanical oscillators and pendulums. Physical Review D, 2019, 100, .	4.7	70
31	Electrodynamic improvements to the theory of magnetostatic modes in ferrimagnetic spheres and their applications to saturation magnetization measurements. Journal of Magnetism and Magnetic Materials, 2019, 487, 165331.	2.3	12
32	Experimental implementation of a large scale multipost re-entrant array. Applied Physics Express, 2019, 12, 054002.	2.4	0
33	Low-Temperature Properties of Whispering-Gallery Modes in Isotopically Pure Silicon-28. Physical Review Applied, 2019, 11, .	3.8	2
34	Broadening frequency range of a ferromagnetic axion haloscope with strongly coupled cavity-magnon polaritons. Physics of the Dark Universe, 2019, 25, 100306.	4.9	51
35	Probing dark universe with exceptional points. Physics of the Dark Universe, 2019, 23, 100244.	4.9	9
36	Piezo-optomechanical coupling of a 3D microwave resonator to a bulk acoustic wave crystalline resonator. Applied Physics Letters, 2019, 115, .	3.3	9

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37	Observation of low-temperature magnetomechanic effects in crystalline resonant phonon cavities. Physical Review B, 2019, 100, .	3.2	2
38	Precision Frequency Metrology for Axion Searches. , 2019, , .		1
39	Cross-Correlation Signal Processing for Axion and WISP Dark Matter Searches. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2019, 66, 236-243.	3.0	7
40	Combined Search for a Lorentz-Violating Force in Short-Range Gravity Varying as the Inverse Sixth Power of Distance. Physical Review Letters, 2019, 122, 011102.	7.8	24
41	Cavity magnon polaritons with lithium ferrite and three-dimensional microwave resonators at millikelvin temperatures. Physical Review B, 2018, 97, .	3.2	28
42	Aggregate frequency width, nuclear hyperfine coupling and Jahnâ€“Teller effect of Cu ²⁺ impurity ion ESR in SrLaAlO ₄ dielectric resonator at 20 millikelvin. Journal of Physics Condensed Matter, 2018, 30, 015802.	1.8	1
43	Tunable Supermode Dielectric Resonators for Axion Dark-Matter Haloscopes. Physical Review Applied, 2018, 9, .	3.8	35
44	Next Generation of Phonon Tests of Lorentz Invariance Using Quartz BAW Resonators. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 991-1000.	3.0	18
45	Better than Brillouin. Nature Physics, 2018, 14, 531-532.	16.7	0
46	Axion detection with negatively coupled cavity arrays. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 2199-2204.	2.1	26
47	Isotopically Pure Silicon-28 Whispering Gallery Mode Resonators: A Host for Narrow Linewidth Spin Ensembles. , 2018, , .		0
48	Stabilized Free-Space Optical Frequency Transfer. Physical Review Applied, 2018, 10, .	3.8	33
49	Response to â€œComment on â€“Higher order reentrant post modes in cylindrical cavitiesâ€™â€•. Appl. Phys. 123, 226101 (2018)]. Journal of Applied Physics, 2018, 123, .	2.5	3
50	Whispering gallery mode dielectric spectroscopy of SrLaAlO ₄ at milliKelvin temperatures. Journal of Applied Physics, 2018, 123, 234103.	2.5	1
51	Inducing Strong Non-Linearities in a Phonon Trapping Quartz Bulk Acoustic Wave Resonator Coupled to a Superconducting Quantum Interference Device. Applied Sciences (Switzerland), 2018, 8, 602.	2.5	1
52	Rigorous ESR spectroscopy of Fe ³⁺ impurity ion with oxygen vacancy in ferroelectric SrTiO ₃ crystal at 20 mK. Journal of Physics Condensed Matter, 2018, 30, 295805.	1.8	1
53	Frequency-temperature sensitivity reduction with optimized microwave Bragg resonators. Journal of Applied Physics, 2017, 121, .	2.5	4
54	Achieving long phonon lifetimes. Nature Materials, 2017, 16, 285-286.	27.5	0

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55	Determination of Low Loss in Isotopically Pure Single Crystal ^{28}Si at Low Temperatures and Single Microwave Photon Energy. Scientific Reports, 2017, 7, 44813.	3.3	7
56	The ORGAN experiment: An axion haloscope above 15 GHz. Physics of the Dark Universe, 2017, 18, 67-72.	4.9	217
57	Cryogenic optomechanics and the resurgence of the resonant-mass gravitational wave detector. New Journal of Physics, 2017, 19, 091001.	2.9	1
58	Whispering Gallery mode ESR spectroscopy and parameters measurement in single crystal SrLaAlO_4 at millikelvin temperature. Journal of Magnetic Resonance, 2017, 281, 209-216.	2.1	3
59	Sensitivity characterisation of a parametric transducer for gravitational wave detection through optical spring effect. Classical and Quantum Gravity, 2017, 34, 175001.	4.0	0
60	Electromagnetic properties of terbium gallium garnet at millikelvin temperatures and low photon energy. Applied Physics Letters, 2017, 111, 052402.	3.3	1
61	Low-temperature microwave properties of biaxial YAlO_3 . Physical Review B, 2017, 96, .	3.2	4
62	Higher order reentrant post modes in cylindrical cavities. Journal of Applied Physics, 2017, 122, .	2.5	11
63	Experiments match simulations in a multiple post reentrant cavity. Review of Scientific Instruments, 2017, 88, 125104.	1.3	1
64	Improving phonon sector tests of Lorentz Invariance. , 2017, , .		0
65	First search for axions of mass $110 \hat{1}^{1/4}\text{eV}$ using milliKelvin cooled 26.6 GHz microwave resonator. , 2017, , .		0
66	Indirect methods to control population distribution in a large spin system. New Journal of Physics, 2017, 19, 033016.	2.9	1
67	Precision Experiments of Photons Using Microwave Cavities to Test Lorentz-Invariance Violations and Fundamental Physics. , 2017, , .		0
68	Acoustic Tests of Lorentz Symmetry Using Bulk Acoustic Wave Quartz Oscillators. , 2017, , .		0
69	Piezoelectric tunable microwave superconducting cavity. Review of Scientific Instruments, 2016, 87, 094702.	1.3	15
70	Towards achieving strong coupling in three-dimensional-cavity with solid state spin resonance. Journal of Applied Physics, 2016, 119, .	2.5	16
71	Towards Cryogenic Quartz Oscillators: Coupling of a Bulk Acoustic Wave quartz resonator to a SQUID. , 2016, , .		1
72	A 3D printed superconducting aluminium microwave cavity. Applied Physics Letters, 2016, 109, .	3.3	27

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73	Reconfigurable Microwave Photonic Topological Insulator. Physical Review Applied, 2016, 6, .	3.8	30
74	Superstrong coupling of a microwave cavity to yttrium iron garnet magnons. Applied Physics Letters, 2016, 108, .	3.3	120
75	Enhanced sensitivity to Lorentz invariance violations in short-range gravity experiments. Physical Review D, 2016, 94, .	4.7	13
76	A new method of probing mechanical losses of coatings at cryogenic temperatures. Review of Scientific Instruments, 2016, 87, 123906.	1.3	5
77	3D lumped LC resonators as low mass axion haloscopes. Physical Review D, 2016, 94, .	4.7	19
78	Combined Search for Lorentz Violation in Short-Range Gravity. Physical Review Letters, 2016, 117, 071102.	7.8	44
79	Ultrahigh cooperativity interactions between magnons and resonant photons in a YIG sphere. Physical Review B, 2016, 93, .	3.2	161
80	Quartz-superconductor quantum electromechanical system. Physical Review B, 2016, 93, .	3.2	9
81	Axion Dark Matter Coupling to Resonant Photons via Magnetic Field. Physical Review Letters, 2016, 116, 161804.	7.8	28
82	Acoustic Tests of Lorentz Symmetry Using Quartz Oscillators. Physical Review X, 2016, 6, .	8.9	29
83	Impact of coatings on the quality factor of a quartz crystal resonator at liquid helium temperature. , 2016, , .		1
84	High-Stability Comparison of Atomic Fountains Using Two Different Cryogenic Oscillators. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 1198-1203.	3.0	21
85	Behavior of quartz crystal resonators at liquid helium temperature. , 2016, , .		0
86	Quality Factor Measurements of Various Types of Quartz Crystal Resonators Operating Near 4ÅK. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 975-980.	3.0	12
87	Collective behavior of Cr ³⁺ ions in ruby revealed by whispering gallery modes. Physical Review A, 2015, 92, .	2.5	3
88	Precision measurement of a low-loss cylindrical dumbbell-shaped sapphire mechanical oscillator using radiation pressure. Physical Review A, 2015, 92, .	2.5	9
89	Strong coupling between P impurity centers and a three-dimensional lumped photonic microwave cavity. Physical Review B, 2015, 91, .	3.2	24
90	Single-photon level study of microwave properties of lithium niobate at millikelvin temperatures. Physical Review B, 2015, 92, .	3.2	18

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91	Search for Lorentz invariance violation through tests of the gravitational inverse square law at short ranges. <i>Physical Review D</i> , 2015, 91, .	4.7	38
92	Evidence of dilute ferromagnetism in rare-earth doped yttrium aluminium garnet. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	12
93	Frequency stability and phase noise performance of X-band to Ka-band active multiplier. <i>Electronics Letters</i> , 2015, 51, 2015-2017.	1.0	0
94	Quality factors of quartz crystal resonators operating at 4 Kelvins. , 2015, , .		0
95	Creating tuneable microwave media from a two-dimensional lattice of re-entrant posts. <i>Journal of Applied Physics</i> , 2015, 118, .	2.5	8
96	The 3D split-ring cavity lattice: a new metastructure for engineering arrays of coupled microwave harmonic oscillators. <i>New Journal of Physics</i> , 2015, 17, 023003.	2.9	15
97	Discovery of iron group impurity ion spin states in single crystal Y2SiO5 with strong coupling to whispering gallery photons. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	11
98	Spectroscopy and laser cooling on the 1S_0 1S_0 \leftrightarrow 3P_1 line in Yb via an injection-locked diode laser at 1,111.6Ånm. <i>Applied Physics B: Lasers and Optics</i> , 2015, 118, 517-525.	2.2	8
99	Bounds on higher-order Lorentz-violating photon sector coefficients from an asymmetric optical ring resonator experiment. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2015, 379, 2681-2684.	2.1	3
100	Microwave-to-millimeter-wave synthesis chain phase noise performance. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2015, 62, 1895-1900.	3.0	7
101	Multi-mode technique for the determination of the biaxial Y2SiO5 permittivity tensor from 300 to 6%K. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	12
102	Direct terrestrial test of Lorentz symmetry in electrodynamics to 10^{-18} . <i>Nature Communications</i> , 2015, 6, 8174.	12.8	67
103	Measurements of elastic properties of langatate at liquid helium temperatures for design of ultra low loss mechanical systems. <i>Applied Physics Letters</i> , 2014, 104, 261904.	3.3	2
104	Piezoelectric voltage coupled reentrant cavity resonator. <i>Review of Scientific Instruments</i> , 2014, 85, 104705.	1.3	13
105	Effects of geometry on quantum fluctuations of phonon-trapping acoustic cavities. <i>New Journal of Physics</i> , 2014, 16, 083007.	2.9	13
106	Extremely high Q-factor mechanical modes in quartz bulk acoustic wave resonators at millikelvin temperature. , 2014, , .		2
107	Sub-Doppler cooling of ytterbium with the $^1S_0 \leftrightarrow ^1P_1$ transition including ^171Yb ($I=1/2$). <i>Journal of the Optical Society of America B: Optical Physics</i> , 2014, 31, 1614.	2.1	8
108	Noise properties of cryogenic microwave amplifiers and relevance to oscillator frequency stabilization. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2014, 61, 575-581.	3.0	3

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109	Addressing a single spin in diamond with a macroscopic dielectric microwave cavity. Applied Physics Letters, 2014, 105, 133101.	3.3	12
110	High-Cooperativity Cavity QED with Magnons at Microwave Frequencies. Physical Review Applied, 2014, 2, .	3.8	407
111	Three-dimensional cavity quantum electrodynamics with a rare-earth spin ensemble. Physical Review B, 2014, 90, .	3.2	42
112	Gravitational wave detection with high frequency phonon trapping acoustic cavities. Physical Review D, 2014, 90, .	4.7	67
113	Strong coupling between whispering gallery modes and chromium ions in ruby. Physical Review B, 2014, 90, .	3.2	18
114	Observation of the fundamental Nyquist noise limit in an ultra-high Q -factor cryogenic bulk acoustic wave cavity. Applied Physics Letters, 2014, 105, .	3.3	18
115	Testing speed of light isotropy using rotating cryogenic sapphire microwave oscillators. , 2014, , .		0
116	Hyperparametric effects in a whispering-gallery mode rutile dielectric resonator at liquid helium temperatures. Journal of Applied Physics, 2014, 116, 134105.	2.5	5
117	Spin-photon interaction in a cavity with time-reversal symmetry breaking. Physical Review B, 2014, 89, .	3.2	25
118	Controlling a whispering-gallery-doublet-mode avoided frequency crossing: Strong coupling between photon bosonic and spin degrees of freedom. Physical Review A, 2014, 89, .	2.5	12
119	Metal Bulk Foil Resistor Characterization for BAW Application at Low Cryogenic Temperatures. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 628-632.	4.7	4
120	Invited Article: Dielectric material characterization techniques and designs of high-Q resonators for applications from micro to millimeter-waves frequencies applicable at room and cryogenic temperatures. Review of Scientific Instruments, 2014, 85, 031301.	1.3	27
121	Jump chaotic behaviour of ultra low loss bulk acoustic wave cavities. Applied Physics Letters, 2014, 105, .	3.3	3
122	Current limitations of cryogenic microwave oscillator frequency stability. , 2014, , .		1
123	Sub-Doppler cooling with the 1S_0 - 1P_1 line in ytterbium. , 2014, , .		0
124	Investigation of Higher Order Reentrant Modes of a Cylindrical Reentrant-Ring Cavity Resonator. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 1657-1662.	4.6	9
125	Simulating GPS radio signal to synchronize network-a new technique for redundant timing. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 1075-1085.	3.0	1
126	Bulk acoustic wave resonator thermal noise measurements. , 2014, , .		0

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127	Ultra-sensitive Whispering Gallery Mode spectroscopy of low loss crystals at cryogenic temperatures. , 2014, , .		0
128	Properties related to Q-factors and noise of quartz resonator-based systems at 4K. , 2014, , .		3
129	USING MICROWAVE CAVITIES TO TEST LORENTZ INVARIANCE. , 2014, , 131-134.		0
130	Advances in development of quartz crystal oscillators at liquid helium temperatures. Cryogenics, 2013, 57, 104-112.	1.7	17
131	Experimental realization of an optical second with strontium lattice clocks. Nature Communications, 2013, 4, 2109.	12.8	192
132	Quartz resonators at cryogenic temperatures: Noise and quality factor. , 2013, , .		2
133	Rigorous analysis of highly tunable cylindrical transverse magnetic mode re-entrant cavities. Review of Scientific Instruments, 2013, 84, 125114.	1.3	38
134	Ultrasensitive microwave spectroscopy of paramagnetic impurities in sapphire crystals at millikelvin temperatures. Physical Review B, 2013, 88, .	3.2	47
135	Giant Q -factors of natural impurities in synthetic quartz. Applied Physics Letters, 2013, 103, .	3.3	17
136	Optimum design of a high-Q room- temperature whispering-gallery-mode X-band sapphire resonator. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 1041-1047.	3.0	4
137	Intrinsic phase noise properties and frequency stability of millimetre-wave module at 90GHz. Electronics Letters, 2013, 49, 886-887.	1.0	2
138	Anomalously strong nonlinearity of unswept quartz acoustic cavities at liquid helium temperatures. Journal of Applied Physics, 2013, 114, 094506.	2.5	8
139	Electron spin resonance spectroscopy of high purity crystals at millikelvin temperatures. Proceedings of SPIE, 2013, , .	0.8	0
140	Non-intrusive tunable resonant microwave cavity for optical detected magnetic resonance of NV centres in nanodiamonds. Proceedings of SPIE, 2013, , .	0.8	0
141	Observation of Rayleigh Phonon Scattering through Excitation of Extremely High Overtones in Low-Loss Cryogenic Acoustic Cavities for Hybrid Quantum Systems. Physical Review Letters, 2013, 111, 085502.	7.8	49
142	Resonator power to frequency conversion in a cryogenic sapphire oscillator. Applied Physics Letters, 2013, 103, 043502.	3.3	15
143	Hybrid electron spin resonance and whispering gallery mode resonance spectroscopy of Fe ³⁺ in sapphire. Physical Review B. 2013. 87, .	3.2	20
144	Testing local position and fundamental constant invariance due to periodic gravitational and boost using long-term comparison of the SYRTE atomic fountains and H-masers. Physical Review D, 2013, 87, .	4.7	22

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145	Spin bath maser in a cryogenically cooled sapphire whispering gallery mode resonator. Physical Review B, 2013, 88, .	3.2	10
146	Hidden sector photon coupling of resonant cavities. Physical Review D, 2013, 87, .	4.7	14
147	Cryogenic resonant microwave cavity searches for hidden sector photons. Physical Review D, 2013, 88, .	4.7	28
148	Easily scalable resonator based on hollow-core photonic band gap crystal cladding for extremely high frequencies. , 2013, , .		0
149	Recent progress and perspectives of extremely low loss acoustic cavities: From frequency sources to artificial atoms. , 2013, , .		0
150	Extremely Low Loss Phonon-Trapping Cryogenic Acoustic Cavities for Future Physical Experiments. Scientific Reports, 2013, 3, 2132.	3.3	87
151	Generation of 103.75 GHz CW Source With 5.10^{-16} Frequency Instability Using Cryogenic Sapphire Oscillators. IEEE Microwave and Wireless Components Letters, 2012, 22, 85-87.	3.2	9
152	Testing for periodic changes in fundamental constants using long-term comparison of the SYRTE Cs fountains and H-masers. , 2012, , .		0
153	Oscillating Test of the Isotropic Shift of the Speed of Light. Physical Review Letters, 2012, 108, 260801.	7.8	15
154	“Fast light” effect in experiments with cryogenic resonators. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 221001.	1.5	1
155	Extremely low-loss acoustic phonons in a quartz bulk acoustic wave resonator at millikelvin temperature. Applied Physics Letters, 2012, 100, .	3.3	73
156	Controlling the frequency-temperature sensitivity of a cryogenic sapphire maser frequency standard by manipulating Fe^{3+} spins in the sapphire lattice. Physical Review B, 2012, 85, .	3.2	10
157	Four-Wave Mixing from Fe^{3+} Improved Tests of Local Position Invariance Using Rb^{87}	7.8	107
158	Measurement of temperature sensitivity of LGT elastic coefficients over [4K, 15K] cryogenic range. , 2012, , .		0
159	Frequency Conversion in a High-Q-Factor Sapphire Whispering Gallery Mode Resonator due to Paramagnetic Nonlinearity. Physical Review Letters, 2012, 109, 143902.	7.8	16
160	Status Report of the Schenberg Gravitational Wave Antenna. Journal of Physics: Conference Series, 2012, 363, 012003.	0.4	31
161	Linear and nonlinear effects of electron paramagnetic resonance in high-Q cryogenic sapphire microwave resonators. , 2012, , .		0
162			

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163	A Simple Dual-Band Electromagnetic Band Gap Resonator Antenna Based on Inverted Reflection Phase Gradient. IEEE Transactions on Antennas and Propagation, 2012, 60, 4522-4529.	5.1	70
164	Cryogenic quartz frequency sources: Problems and perspectives. , 2012, , .		0
165	Progress in atomic fountains at LNE-SYRTE. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 391-409.	3.0	240
166	Some future applications of cryogenic high-Q resonant cavities. , 2012, , .		0
167	Quartz resonator instabilities under cryogenic conditions. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 21-29.	3.0	20
168	Analysis of the whispering gallery mode sapphire Fe^{3+} maser under magnetic field. EPJ Applied Physics, 2012, 57, 21005.	0.7	5
169	THE SCHENBERG SPHERICAL ANTENNA: STATUS REPORT. , 2012, , .		0
170	Generation of 100 GHz with parts in 1016 frequency stability using cryogenic sapphire oscillators. , 2011, , .		0
171	Rotating dual cryogenic sapphire oscillators with 10^{-16} fractional frequency stability for tests of Lorentz invariance. , 2011, , .		0
172	Precision close-to-carrier phase noise simulation of BAW oscillators. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 6-9.	3.0	8
173	Recent atomic fountain clock comparisons at LNE-SYRTE. , 2011, , .		0
174	Precision noise measurements and oscillator frequency stabilization. , 2011, , .		0
175	Microwave cavity hidden sector photon threshold crossing. Physical Review D, 2011, 84, .	4.7	9
176	Adapting a Cryogenic Sapphire Oscillator for Very Long Baseline Interferometry. Publications of the Astronomical Society of the Pacific, 2011, 123, 582-595.	3.1	31
177	Oscillator frequency stability improvement by means of negative feedback. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 2297-2304.	3.0	2
178	Microwave properties of semi-insulating silicon carbide between 10 and 40 GHz and at cryogenic temperatures. Journal of Applied Physics, 2011, 109, 064107.	2.5	21
179	High-Resolution Flicker-Noise-Free Frequency Measurements of Weak Microwave Signals. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 1651-1657.	4.6	1
180	Resonant regeneration in the sub-quantum regime – A demonstration of fractional quantum interference. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 698, 346-352.	4.1	15

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181	Parametric model of the BAW resonator phase-noise. Ultrasonics, 2011, 51, 966-973.	3.9	4
182	Study of Fe ³⁺ -sapphire maser above 4K. , 2011, , .		0
183	Testing Lorentz invariance using an odd-parity asymmetric optical resonator. Physical Review D, 2011, 84, .	4.7	11
184	Cavity Bounds on Higher-Order Lorentz-Violating Coefficients. Physical Review Letters, 2011, 106, 180401.	7.8	17
185	Sapphire whispering gallery mode resonators at millikelvin temperature. , 2011, , .		0
186	Rotating microwave cryogenic sapphire oscillators for tests of Lorentz Invariance. , 2011, , .		0
187	Losses in high quality quartz crystal resonators at cryogenic temperatures. Applied Physics Letters, 2011, 98, .	3.3	43
188	Electromagnetic properties of polycrystalline diamond from 35 K to room temperature and microwave to terahertz frequencies. Journal of Applied Physics, 2011, 109, .	2.5	16
189	High Q-factor sapphire whispering gallery mode microwave resonator at single photon energies and millikelvin temperatures. Applied Physics Letters, 2011, 98, .	3.3	45
190	Recent investigations on BAW resonators at cryogenic temperatures. , 2011, , .		14
191	Compact hollow-core photonic band gap resonator with optimised metallic cavity at microwave frequencies. Electronics Letters, 2011, 47, 805-807.	1.0	6
192	Rotating Microwave Cryogenic Sapphire Oscillators for Tests of Lorentz Invariance. , 2011, , .		0
193	Microwave cavity search for paraphotons. , 2010, , .		0
194	Amplification process in a high-Q-cryogenic whispering gallery mode sapphire Fe ³⁺ maser. Measurement Science and Technology, 2010, 21, 025902.	2.6	13
195	Cryogenic properties of a diamond sample at microwave frequencies. , 2010, , .		1
196	Precise phase synchronization of a cryogenic microwave oscillator. Review of Scientific Instruments, 2010, 81, 064702.	1.3	8
197	Gyrotropic paramagnetic properties of Fe ³⁺ ions in a high-Q Whispering gallery mode sapphire resonator. , 2010, , .		0
198	High precision microwave interferometers and oscillators for applied and fundamental physics applications. , 2010, , .		0

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199	Accurate phase synchronization of a cryogenic microwave oscillator. , 2010, , .		0
200	Characterization of the distributed cavity phase shift in FO2 for improving the accuracy of SYRTE fountain clocks. , 2010, , .		1
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