Michael E Tobar

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3898636/publications.pdf

Version: 2024-02-01

454	10,145	38742	58581
papers	citations	50 h-index	82 g-index

465	465	465	4921
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High-Cooperativity Cavity QED with Magnons at Microwave Frequencies. Physical Review Applied, 2014, 2, .	3.8	407
2	Complex permittivity of some ultralow loss dielectric crystals at cryogenic temperatures. Measurement Science and Technology, 1999, 10, 387-392.	2.6	269
3	Progress in atomic fountains at LNE-SYRTE. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 391-409.	3.0	240
4	The ORGAN experiment: An axion haloscope above 15 GHz. Physics of the Dark Universe, 2017, 18, 67-72.	4.9	217
5	Cold atom clocks and applications. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, S449-S468.	1.5	196
6	Use of whispering-gallery modes for complex permittivity determinations of ultra-low-loss dielectric materials. IEEE Transactions on Microwave Theory and Techniques, 1999, 47, 752-759.	4.6	192
7	Experimental realization of an optical second with strontium lattice clocks. Nature Communications, 2013, 4, 2109.	12.8	192
8	High Sensitivity Gravitational Wave Antenna with Parametric Transducer Readout. Physical Review Letters, 1995, 74, 1908-1911.	7.8	163
9	Ultrahigh cooperativity interactions between magnons and resonant photons in a YIG sphere. Physical Review B, 2016, 93, .	3.2	161
10	Ultralow noise microwave generation with fiber-based optical frequency comb and application to atomic fountain clock. Applied Physics Letters, 2009, 94, .	3.3	151
11	Tests of Lorentz Invariance using a Microwave Resonator. Physical Review Letters, 2003, 90, 060402.	7.8	135
12	Microwave interferometry: application to precision measurements and noise reduction techniques. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 1998, 45, 1526-1536.	3.0	127
13	Test of Lorentz Invariance in Electrodynamics Using Rotating Cryogenic Sapphire Microwave Oscillators. Physical Review Letters, 2005, 95, 040404.	7.8	127
14	Long-Distance Frequency Dissemination with a Resolution of10âˆ’17. Physical Review Letters, 2005, 94, 203904.	7.8	127
15	Search for Invisible Axion Dark Matter in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>3.3</mml:mn><mml:mo>â€“</mml:mo><mml:mn>4.2</mml:mn><mml:mtext>â€‰</mml:mtext></mml:mrow></mml:math> Mass Range. Physical Review Letters, 2021, 127, 261803.	7.8	127
16	Superstrong coupling of a microwave cavity to yttrium iron garnet magnons. Applied Physics Letters, 2016, 108, .	3.3	120
17	Tests of Relativity by Complementary Rotating Michelson-Morley Experiments. Physical Review Letters, 2007, 99, 050401.	7.8	119
18	Resonant frequencies of higher order modes in cylindrical anisotropic dielectric resonators. IEEE Transactions on Microwave Theory and Techniques, 1991, 39, 2077-2082.	4.6	117

#	Article	IF	Citations
19	Anisotropic complex permittivity measurements of mono-crystalline rutile between 10 and 300 K. Journal of Applied Physics, 1998, 83, 1604-1609.	2.5	116
20	The association of energy intake bias with psychological scores of women. European Journal of Clinical Nutrition, 1999, 53, 570-578.	2.9	114
21	Improved Tests of Local Position Invariance Using<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi>Rb</mml:mi><mml:mprescripts /><mml:none /><mml:mn>87</mml:mn></mml:mmultiscripts></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi>Cs</mml:mi><mml:mprescripts /><mml:none /></mml:mmultiscripts>	7.8	107
22	LARGE-SCALE CRYOGENIC GRAVITATIONAL WAVE TELESCOPE. International Journal of Modern Physics D, 1999, 08, 557-579.	2.1	105
23	Challenges and opportunities of gravitational-wave searches at MHz to GHz frequencies. Living Reviews in Relativity, 2021, 24, 1.	26.7	105
24	Quantum physics exploring gravity in the outer solar system: the SAGAS project. Experimental Astronomy, 2009, 23, 651-687.	3.7	101
25	Invited Article: Design techniques and noise properties of ultrastable cryogenically cooled sapphire-dielectric resonator oscillators. Review of Scientific Instruments, 2008, 79, 051301.	1.3	100
26	First Search for Gravitational Wave Bursts with a Network of Detectors. Physical Review Letters, 2000, 85, 5046-5050.	7.8	95
27	Methods and results of the IGEC search for burst gravitational waves in the years 1997â€“2000. Physical Review D, 2003, 68, .	4.7	90
28	Improved test of Lorentz invariance in electrodynamics. Physical Review D, 2004, 70, .	4.7	89
29	Improved test of Lorentz invariance in electrodynamics using rotating cryogenic sapphire oscillators. Physical Review D, 2006, 74, .	4.7	87
30	Extremely Low Loss Phonon-Trapping Cryogenic Acoustic Cavities for Future Physical Experiments. Scientific Reports, 2013, 3, 2132.	3.3	87
31	BNM-SYRTE Fountains: Recent Results. IEEE Transactions on Instrumentation and Measurement, 2005, 54, 833-836.	4.7	83
32	Mechanical quality factor of a cryogenic sapphire test mass for gravitational wave detectors. Physics Letters, Section A: General, Atomic and Solid State Physics, 1999, 261, 5-11.	2.1	81
33	Applications of interferometric signal processing to phase-noise reduction in microwave oscillators. IEEE Transactions on Microwave Theory and Techniques, 1998, 46, 1537-1545.	4.6	79
34	Extremely low-loss acoustic phonons in a quartz bulk acoustic wave resonator at millikelvin temperature. Applied Physics Letters, 2012, 100, .	3.3	73
35	Whispering Gallery Resonators and Tests of Lorentz Invariance. General Relativity and Gravitation, 2004, 36, 2351-2372.	2.0	72
36	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

#	Article	IF	Citations
37	Testing the generalized uncertainty principle with macroscopic mechanical oscillators and pendulums. Physical Review D, 2019, 100, .	4.7	70
38	Advances in atomic fountains. Comptes Rendus Physique, 2004, 5, 829-843.	0.9	68
39	New methods of testing Lorentz violation in electrodynamics. Physical Review D, 2005, 71, .	4.7	68
40	Microwave characterisation of BaCe2Ti5O15 and Ba5Nb4O15 ceramic dielectric resonators using whispering gallery mode method. Materials Letters, 2000, 45, 279-285.	2.6	67
41	Cryogenic sapphire oscillator with exceptionally high long-term frequency stability. Applied Physics Letters, 2006, 89, 203513.	3.3	67
42	Testing local Lorentz and position invariance and variation of fundamental constants by searching the derivative of the comparison frequency between a cryogenic sapphire oscillator and hydrogen maser. Physical Review D, 2010, 81, .	4.7	67
43	Gravitational wave detection with high frequency phonon trapping acoustic cavities. Physical Review D, 2014, 90, .	4.7	67
44	Direct terrestrial test of Lorentz symmetry in electrodynamics to 10â˜'18. Nature Communications, 2015, 6, 8174.	12.8	67
45	Low phase-noise sapphire crystal microwave oscillators: current status. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 263-269.	3.0	66
46	Cryogenic cooling of a sapphire mirror-suspension for interferometric gravitational wave detectors. Physics Letters, Section A: General, Atomic and Solid State Physics, 1998, 242, 211-214.	2.1	62
47	Design and realization of a flywheel oscillator for advanced time and frequency metrology. Review of Scientific Instruments, 2005, 76, 094704.	1.3	61
48	Ultra-low-noise microwave oscillator with advanced phase noise suppression system. , 1996, 6, 312-314.		55
49	Demonstration of a dual alkali Rb/Cs fountain clock. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 647-653.	3.0	55
50	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
51	High-Q sapphire-rutile frequency-temperature compensated microwave dielectric resonators. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 1998, 45, 830-836.	3.0	53
52	Broadening frequency range of a ferromagnetic axion haloscope with strongly coupled cavityâ€“magnon polaritons. Physics of the Dark Universe, 2019, 25, 100306.	4.9	51
53	Extremely high-Q factor dielectric resonators for millimeter-wave applications. IEEE Transactions on Microwave Theory and Techniques, 2005, 53, 702-712.	4.6	49
54	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

#	Article	IF	Citations
55	Ultrasensitive microwave spectroscopy of paramagnetic impurities in sapphire crystals at millikelvin temperatures. Physical Review B, 2013, 88, .	3.2	47
56	Maser oscillation in a whispering-gallery-mode microwave resonator. Applied Physics Letters, 2005, 87, 224104.	3.3	46
57	High Q-factor sapphire whispering gallery mode microwave resonator at single photon energies and millikelvin temperatures. Applied Physics Letters, 2011, 98, .	3.3	45
58	Combined Search for Lorentz Violation in Short-Range Gravity. Physical Review Letters, 2016, 117, 071102.	7.8	44
59	Frequency-temperature compensation in Ti/sup 3+/ and Ti/sup 4+/ doped sapphire whispering gallery mode resonators. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 1999, 46, 993-1000.	3.0	43
60	Present status of large-scale cryogenic gravitational wave telescope. Classical and Quantum Gravity, 2004, 21, S1161-S1172.	4.0	43
61	Losses in high quality quartz crystal resonators at cryogenic temperatures. Applied Physics Letters, 2011, 98, .	3.3	43
62	Dielectric frequency - temperature- compensated microwave whispering-gallery-mode resonators. Journal Physics D: Applied Physics, 1997, 30, 2770-2775.	2.8	42
63	Three-dimensional cavity quantum electrodynamics with a rare-earth spin ensemble. Physical Review B, 2014, 90, .	3.2	42
64	Low noise 9-GHz sapphire resonator-oscillator with thermoelectric temperature stabilization at 300 Kelvin. , 1995, 5, 108-110.		40
65	Point-to-point stabilized optical frequency transfer with active optics. Nature Communications, 2021, 12, 515.	12.8	40
66	Advanced phase noise suppression technique for next generation of ultra low-noise microwave oscillators. , 0, , .		39
67	Switching atomic fountain clock microwave interrogation signal and high-resolution phase measurements. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 1319-1326.	3.0	39
68	High-Q thermoelectric-stabilized sapphire microwave resonators for low-noise applications. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 1994, 41, 391-396.	3.0	38
69	Phase noise analysis of the sapphire loaded superconducting niobium cavity oscillator. IEEE Transactions on Microwave Theory and Techniques, 1994, 42, 344-347.	4.6	38
70	Rigorous analysis of highly tunable cylindrical transverse magnetic mode re-entrant cavities. Review of Scientific Instruments, 2013, 84, 125114.	1.3	38
71	Search for Lorentz invariance violation through tests of the gravitational inverse square law at short ranges. Physical Review D, 2015, 91, .	4.7	38
72	An ultralow noise microwave oscillator based on a high-Q liquid nitrogen cooled sapphire resonator. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 1996, 43, 936-941.	3.0	36

#	Article	IF	Citations
73	Low phase-noise microwave oscillators with interferometric signal processing. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 3284-3294.	4.6	36
74	Tunable Supermode Dielectric Resonators for Axion Dark-Matter Haloscopes. Physical Review Applied, 2018, 9, .	3.8	35
75	Modified axion electrodynamics as impressed electromagnetic sources through oscillating background polarization and magnetization. Physics of the Dark Universe, 2019, 26, 100339.	4.9	35
76	Room temperature measurement of the anisotropic loss tangent of sapphire using the whispering gallery mode technique. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 34-38.	3.0	34
77	Measurement of the Fundamental Thermal Noise Limit in a Cryogenic Sapphire Frequency Standard Using Bimodal Maser Oscillations. Physical Review Letters, 2008, 100, 233901.	7.8	33
78	Stabilized Free-Space Optical Frequency Transfer. Physical Review Applied, 2018, 10, .	3.8	33
79	Parametric backâ€action effects in a highâ€Q cyrogenic sapphire transducer. Review of Scientific Instruments, 1996, 67, 2435-2442.	1.3	32
80	Effects of spurious modes in resonant cavities. Journal Physics D: Applied Physics, 1993, 26, 2022-2027.	2.8	31
81	Detecting free-mass common-mode motion induced by incident gravitational waves. Physical Review D, 1999, 59, .	4.7	31
82	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
83	Status Report of the Schenberg Gravitational Wave Antenna. Journal of Physics: Conference Series, 2012, 363, 012003.	0.4	31
84	The Schenberg spherical gravitational wave detector: the first commissioning runs. Classical and Quantum Gravity, 2008, 25, 114042.	4.0	30
85	Reconfigurable Microwave Photonic Topological Insulator. Physical Review Applied, 2016, 6, .	3.8	30
86	Acoustic Tests of Lorentz Symmetry Using Quartz Oscillators. Physical Review X, 2016, 6, .	8.9	29
87	Parametric transducers for resonant bar gravitational wave antennae. Journal Physics D: Applied Physics, 1993, 26, 2276-2291.	2.8	28
88	Use of Whispering-Gallery Modes and Quasi-${m TE}_{0{ np}}$ Modes for Broadband Characterization of Bulk Gallium Arsenide and Gallium Phosphide Samples. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 1201-1206.	4.6	28
89	Microwave cavity light shining through a wall optimization and experiment. Physical Review D, 2010, 82, .	4.7	28
90	Improved constraints on isotropic shift and anisotropies of the speed of light using rotating cryogenic sapphire oscillators. Physical Review D, 2010, 82, .	4.7	28

#	Article	IF	Citations
91	Cryogenic resonant microwave cavity searches for hidden sector photons. Physical Review D, 2013, 88, .	4.7	28
92	Axion Dark Matter Coupling to Resonant Photons via Magnetic Field. Physical Review Letters, 2016, 116, 161804.	7.8	28
93	Cavity magnon polaritons with lithium ferrite and three-dimensional microwave resonators at millikelvin temperatures. Physical Review B, 2018, 97, .	3.2	28
94	Sensitivity analysis of a resonantâ€mass gravitational wave antenna with a parametric transducer. Review of Scientific Instruments, 1995, 66, 2751-2759.	1.3	27
95	Design of very high Q sapphire resonators. Electronics Letters, 1996, 32, 670.	1.0	27
96	Search for coincident excitation of the widely spaced resonant gravitational wave detectors EXPLORER, NAUTILUS and NIOBE. Astroparticle Physics, 1999, 10, 83-92.	4.3	27
97	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
98	A 3D printed superconducting aluminium microwave cavity. Applied Physics Letters, 2016, 109, .	3.3	27
99	A study of noise phenomena in microwave components using an advanced noise measurement system. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 1997, 44, 161-163.	3.0	26
100	Design and metrological features of microwave synthesizers for atomic fountain frequency standard. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 729-735.	3.0	26
101	Axion detection with negatively coupled cavity arrays. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 2199-2204.	2.1	26
102	Axion detection with precision frequency metrology. Physics of the Dark Universe, 2019, 26, 100345.	4.9	26
103	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
104	Gravitational wave detectors with broadband high frequency sensitivity. Communications Physics, 2021, 4, .	5.3	26
105	High Q-factor microwave Fabry-Perot resonator with distributed Bragg reflectors. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2005, 52, 1443-1451.	3.0	25
106	Spin-photon interaction in a cavity with time-reversal symmetry breaking. Physical Review B, 2014, 89, .	3.2	25
107	A generalized equivalent circuit applied to a tunable sapphire-loaded superconducting cavity. IEEE Transactions on Microwave Theory and Techniques, 1991, 39, 1582-1594.	4.6	24
108	Sapphire test-masses for measuring the standard quantum limit and achieving quantum non-demolition. Applied Physics B: Lasers and Optics, 1997, 64, 153-166.	2.2	24

#	Article	IF	Citations
109	Frequency instability measurement system of cryogenic maser oscillator. Electronics Letters, 2007, 43, 1436.	1.0	24
110	Rotating odd-parity Lorentz invariance test in electrodynamics. Physical Review D, 2009, 80, .	4.7	24
111	Strong coupling between<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>P</mml:mi><mml:mn>1</mml:mn></mml:mrow></mml:m impurity centers and a three-dimensional lumped photonic microwave cavity. Physical Review B, 2015, 91, .	3.2	24
112	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
113	Microwave properties of a rutile resonator between 2 and 10 K. Journal Physics D: Applied Physics, 1998, 31, 1383-1391.	2.8	23
114	Monolithic sapphire parametric transducer operation at cryogenic temperatures. Review of Scientific Instruments, 2000, 71, 2737-2741.	1.3	23
115	Cryogenically cooled sapphire-rutile dielectric resonators for ultrahigh-frequency stable oscillators for terrestrial and space applications [atomic frequency standards]. IEEE Transactions on Microwave Theory and Techniques, 2000, 48, 1265-1269.	4.6	23
116	Spherical Bragg reflector resonators. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2004, 51, 1054-1059.	3.0	23
117	Whispering modes in anisotropic and isotropic dielectric spherical resonators. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 359, 1-7.	2.1	23
118	High-power solid-state sapphire whispering gallery mode maser. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 641-646.	3.0	23
119	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
120	Long term operation of a niobium resonant bar gravitational wave antenna. Physics Letters, Section A: General, Atomic and Solid State Physics, 1996, 218, 190-196.	2.1	21
121	Parametric Transducers for the Advanced Cryogenic Resonant-Mass Gravitational Wave Detectors. General Relativity and Gravitation, 2000, 32, 1799-1821.	2.0	21
122	Proposal for a new test of the time independence of the fine structure constant Î± using orthogonally polarized whispering gallery modes in a single sapphire resonator. Physical Review D, 2003, 67, .	4.7	21
123	New method to build a high stability sapphire oscillator from the temperature compensation of the difference frequency between modes of orthogonal polarization. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2003, 50, 214-219.	3.0	21
124	Current status of large-scale cryogenic gravitational wave telescope. Classical and Quantum Gravity, 2003, 20, S871-S884.	4.0	21
125	Long-term operation and performance of cryogenic sapphire oscillators. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 2386-2393.	3.0	21
126	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

#	Article	IF	Citations
127	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
128	Measurement of dielectric loss tangent of alumina at microwave frequencies and room temperature. Electronics Letters, 1994, 30, 2120-2122.	1.0	20
129	High-Q whispering gallery traveling wave resonators for oscillator frequency stabilization. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2000, 47, 421-426.	3.0	20
130	Four-Wave Mixing from<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>Fe</mml:mi><mml:mrow><mml:mn>3</mml:mn><mml:mo>+</mml:mo></mml:mrow></mml:msup></mml:math>in Sapphire. Physical Review Letters, 2012, 108, 093902.	7.8	20
131	Quartz resonator instabilities under cryogenic conditions. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 21-29.	3.0	20
132	Hybrid electron spin resonance and whispering gallery mode resonance spectroscopy of Fe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mrow><mml:mn>3</mml:mn><mml:mo>+</mml:mo></mml:mrow></mml:msup></mml:math>in sapphire. Physical Review B, 2013, 87, .	3.2	20
133	Rare Events Detected with a Bulk Acoustic Wave High Frequency Gravitational Wave Antenna. Physical Review Letters, 2021, 127, 071102.	7.8	20
134	Complex permittivity measurements of extremely low loss dielectric materials using whispering gallery modes. , 0, , .		19
135	Design and verification of low acoustic loss suspension systems for measuring the Q-factor of a gravitational wave detector test mass. Physics Letters, Section A: General, Atomic and Solid State Physics, 1998, 246, 37-42.	2.1	19
136	3D lumped LC resonators as low mass axion haloscopes. Physical Review D, 2016, 94, .	4.7	19
137	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
138	Temperature dependence of Ti3+ doped sapphire whispering gallery mode resonator. Electronics Letters, 1998, 34, 195.	1.0	18
139	INITIAL OPERATION OF THE INTERNATIONAL GRAVITATIONAL EVENT COLLABORATION. International Journal of Modern Physics D, 2000, 09, 237-245.	2.1	18
140	Strong coupling between whispering gallery modes and chromium ions in ruby. Physical Review B, 2014, 90, .	3.2	18
141	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
142	Single-photon level study of microwave properties of lithium niobate at millikelvin temperatures. Physical Review B, 2015, 92, .	3.2	18
143	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
144	Whispering gallery method of measuring complex permittivity in highly anisotropic materials: discovery of a new type of mode in anisotropic dielectric resonators. IEEE Transactions on Instrumentation and Measurement, 2001, 50, 522-525.	4.7	17

#	Article	IF	Citations
145	Distributed Bragg reflector resonators with cylindrical symmetry and extremely high Q-factors. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2005, 52, 17-26.	3.0	17
146	Discovery of Bragg confined hybrid modes with high Q factor in a hollow dielectric resonator. Applied Physics Letters, 2007, 91, 142907.	3.3	17
147	Anisotropic paramagnetic susceptibility of crystalline ruby at cryogenic temperatures. Physical Review B, 2007, 75, .	3.2	17
148	Creating traveling waves from standing waves from the gyrotropic paramagnetic properties ofFe3+ions in a high-Qwhispering gallery mode sapphire resonator. Physical Review B, 2009, 79, .	3.2	17
149	Cryogenic transistor measurement and modeling for engineering applications. Cryogenics, 2010, 50, 381-389.	1.7	17
150	Cavity Bounds on Higher-Order Lorentz-Violating Coefficients. Physical Review Letters, 2011, 106, 180401.	7.8	17
151	Advances in development of quartz crystal oscillators at liquid helium temperatures. Cryogenics, 2013, 57, 104-112.	1.7	17
152	Giant g-factors of natural impurities in synthetic quartz. Applied Physics Letters, 2013, 103, .	3.3	17
153	Low noise microwave oscillators based on high-Q temperature stabilized sapphire resonators. , 0, , .		16
154	Difference frequency technique to achieve frequency-temperature compensation in whispering-gallery sapphire resonator-oscillator. Electronics Letters, 2002, 38, 948.	1.0	16
155	Dielectric characterisation of Barium Fluoride at cryogenic temperatures using TE011 and quasi TE0mn mode dielectric resonators. Cryogenics, 2006, 46, 730-735.	1.7	16
156	Single-crystal sapphire resonator at millikelvin temperatures: Observation of thermal bistability in high-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Q</mml:mi></mml:math>factor whispering gallery modes. Physical Review B, 2010, 82, .	3.2	16
157	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
158	Frequency Conversion in a High<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Q</mml:mi></mml:math>-Factor Sapphire Whispering Gallery Mode Resonator due to Paramagnetic Nonlinearity. Physical Review Letters, 2012, 109, 143902.	7.8	16
159	Towards achieving strong coupling in three-dimensional-cavity with solid state spin resonance. Journal of Applied Physics, 2016, 119, .	2.5	16
160	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
161	Poynting vector controversy in axion modified electrodynamics. Physical Review D, 2022, 105, .	4.7	16
162	Whispering Gallery mode microwave characterization of Ba(Mg1/3,Ta2/3)O3dielectric resonators. Journal Physics D: Applied Physics, 1999, 32, 2821-2826.	2.8	15

#	Article	IF	Citations
163	Complex paramagnetic susceptibility in titanium-doped sapphire at microwave frequencies. Journal Physics D: Applied Physics, 2001, 34, 959-967.	2.8	15
164	Proposal for a new Michelsonâ€“Morley experiment using a single whispering spherical mode resonator. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 300, 33-39.	2.1	15
165	Rotating Resonator-Oscillator Experiments to Test Lorentz Invariance in Electrodynamics. , 2006, , 416-450.		15
166	Microwave phase detection at the level of 10â˜'11â€‚rad. Review of Scientific Instruments, 2009, 80, 044701.	1.3	15
167	Resonant regeneration in the sub-quantum regime â€“ A demonstration of fractional quantum interference. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 698, 346-352.	4.1	15
168	Oscillating Test of the Isotropic Shift of the Speed of Light. Physical Review Letters, 2012, 108, 260801.	7.8	15
169	Resonator power to frequency conversion in a cryogenic sapphire oscillator. Applied Physics Letters, 2013, 103, 043502.	3.3	15
170	The 3D split-ring cavity lattice: a new metastructure for engineering arrays of coupled microwave harmonic oscillators. New Journal of Physics, 2015, 17, 023003.	2.9	15
171	Piezoelectric tunable microwave superconducting cavity. Review of Scientific Instruments, 2016, 87, 094702.	1.3	15
172	Dielectric-Boosted Sensitivity to Cylindrical Azimuthally Varying Transverse-Magnetic Resonant Modes in an Axion Haloscope. Physical Review Applied, 2020, 14, .	3.8	15
173	High-Q frequency-temperature compensated sapphire/rutile resonator. Electronics Letters, 2000, 36, 726.	1.0	14
174	Applications of low-temperature microwave techniques to the measurement of gravity waves and quantum measurement of macroscopic systems. Physica B: Condensed Matter, 2000, 280, 520-524.	2.7	14
175	"Real time" noise measurements with sensitivity exceeding the standard thermal noise limit. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2002, 49, 1160-1165.	3.0	14
176	Temperature Dependence of Permittivity and Loss Tangent of Lithium Tantalate at Microwave Frequencies. IEEE Transactions on Microwave Theory and Techniques, 2004, 52, 536-541.	4.6	14
177	MASER OSCILLATION FROM ELECTRONIC SPIN RESONANCE IN A CRYOGENIC SAPPHIRE FREQUENCY STANDARD. International Journal of Modern Physics B, 2006, 20, 1606-1612.	2.0	14
178	Investigation of ultra-high sensitivity klystron cavity transducers for broadband resonant-mass gravitational wave detectors. Journal of Physics: Conference Series, 2008, 122, 012028.	0.4	14
179	Recent investigations on BAW resonators at cryogenic temperatures. , 2011, , .		14
180	Hidden sector photon coupling of resonant cavities. Physical Review D, 2013, 87, .	4.7	14

#	Article	IF	Citations
181	Sapphire-rutile frequency-temperature compensated whispering gallery microwave resonators. , 0, , .		13
182	Parametric interaction of the electric and acoustic fields in a sapphire monocrystal transducer with a microwave readout. Journal of Applied Physics, 1998, 84, 6523-6527.	2.5	13
183	Sensitivity and optimization of a high-Q sapphire dielectric motion-sensing transducer. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 1998, 45, 1303-1313.	3.0	13
184	Comment on â€œTest of constancy of speed of light with rotating cryogenic optical resonatorsâ€• Physical Review A, 2005, 72, .	2.5	13
185	Low-loss materials for high Q-factor Bragg reflector resonators. Applied Physics Letters, 2008, 92, .	3.3	13
186	Amplification process in a high-Qcryogenic whispering gallery mode sapphire Fe3 +maser. Measurement Science and Technology, 2010, 21, 025902.	2.6	13
187	Piezoelectric voltage coupled reentrant cavity resonator. Review of Scientific Instruments, 2014, 85, 104705.	1.3	13
188	Effects of geometry on quantum fluctuations of phonon-trapping acoustic cavities. New Journal of Physics, 2014, 16, 083007.	2.9	13
189	Enhanced sensitivity to Lorentz invariance violations in short-range gravity experiments. Physical Review D, 2016, 94, .	4.7	13
190	Casimir spring and dilution in macroscopic cavity optomechanics. Nature Physics, 2020, 16, 1117-1122.	16.7	13
191	Generation of ultralow power phononic combs. Physical Review Research, 2020, 2, .	3.6	13
192	Noncontacting microwave coupling to a cryogenic gravitational radiation antenna. Review of Scientific Instruments, 1993, 64, 1905-1909.	1.3	12
193	Dielectric frequency-temperature compensation of high quality sapphire dielectric resonators. , 0, , .		12
194	Compact, high-Q, zero temperature coefficient, TE/sub 011/ sapphire-rutile microwave distributed Bragg reflector resonators. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2001, 48, 821-829.	3.0	12
195	Optical frequency synthesis from a cryogenic microwave sapphire oscillator. Optics Express, 2006, 14, 4316.	3.4	12
196	Hollow-core resonator based on out-of-plane two-dimensional photonic band-gap crystal cladding at microwave frequencies. Applied Physics Letters, 2010, 96, .	3.3	12
197	Addressing a single spin in diamond with a macroscopic dielectric microwave cavity. Applied Physics Letters, 2014, 105, 133101.	3.3	12
198	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

#	Article	IF	Citations
199	Evidence of dilute ferromagnetism in rare-earth doped yttrium aluminium garnet. Applied Physics Letters, 2015, 107, .	3.3	12
200	Multi-mode technique for the determination of the biaxial Y2SiO5 permittivity tensor from 300 to 6â€‰K. Applied Physics Letters, 2015, 106, .	3.3	12
201	Quality Factor Measurements of Various Types of Quartz Crystal Resonators Operating Near 4ÂK. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 975-980.	3.0	12
202	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
203	Testing Lorentz invariance using an odd-parity asymmetric optical resonator. Physical Review D, 2011, 84, .	4.7	11
204	Discovery of iron group impurity ion spin states in single crystal Y2SiO5 with strong coupling to whispering gallery photons. Applied Physics Letters, 2015, 106, .	3.3	11
205	Higher order reentrant post modes in cylindrical cavities. Journal of Applied Physics, 2017, 122, .	2.5	11
206	Characterizing multi-mode resonant-mass gravitational wave detectors. Journal Physics D: Applied Physics, 1995, 28, 1729-1736.	2.8	10
207	Experimental study of the noise phenomena in microwave components. , 0, , .		10
208	Frequency-Temperature Compensation Techniques for High-Q Microwave Resonators. , 2001, , 67-91.		10
209	Influence of paramagnetic chromium ions in crystalline YAG at microwave frequencies. Journal Physics D: Applied Physics, 2002, 35, 1459-1466.	2.8	10
210	High-Q whispering modes in empty spherical cavity resonators. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2003, 50, 1407-1413.	3.0	10
211	The microwave characterization of single crystal lithium and calcium fluoride at cryogenic temperatures. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2004, 51, 380-386.	3.0	10
212	Designs of a microwave TE/sub 011/ mode cavity for a space borne H-maser. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2005, 52, 1638-1643.	3.0	10
213	High q-factor distributed bragg reflector resonators with reflectors of arbitrary thickness. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 2689-2695.	3.0	10
214	Controlling the frequency-temperature sensitivity of a cryogenic sapphire maser frequency standard by manipulating Fe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mrow><mml:mn>3</mml:mn><mml:mo>+</mml:mo></mml:mrow></mml:msup></mml:math>spins in the sapphire lattice. Physical Review B, 2012, 85, .	3.2	10
215	Spin bath maser in a cryogenically cooled sapphire whispering gallery mode resonator. Physical Review B, 2013, 88, .	3.2	10
216	Advanced phase detection technique for the real time measurement and reduction of noise in components and oscillators. , 0, , .		9

#	Article	IF	Citations
217	Design of high-Q frequency-temperature compensated dielectric resonators. Electronics Letters, 1999, 35, 303.	1.0	9
218	Analysis of the rutile-ring method of frequency-temperature compensating a high-Q whispering gallery sapphire resonator. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2001, 48, 812-820.	3.0	9
219	Search for gravitational wave bursts by the network of resonant detectors. Classical and Quantum Gravity, 2002, 19, 1367-1375.	4.0	9
220	Characterization of a spherically symmetric fused-silica-loaded cavity microwave resonator. Measurement Science and Technology, 2003, 14, 286-293.	2.6	9
221	Microwave cavity hidden sector photon threshold crossing. Physical Review D, 2011, 84, .	4.7	9
222	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
223	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
224	Precision measurement of a low-loss cylindrical dumbbell-shaped sapphire mechanical oscillator using radiation pressure. Physical Review A, 2015, 92, .	2.5	9
225	Quartz-superconductor quantum electromechanical system. Physical Review B, 2016, 93, .	3.2	9
226	Probing dark universe with exceptional points. Physics of the Dark Universe, 2019, 23, 100244.	4.9	9
227	Piezo-optomechanical coupling of a 3D microwave resonator to a bulk acoustic wave crystalline resonator. Applied Physics Letters, 2019, 115, .	3.3	9
228	Electrodynamics of Free- and Bound-Charge Electricity Generators Using Impressed Sources. Physical Review Applied, 2021, 15, .	3.8	9
229	Sapphire high-Q low temperature transducer for resonant bar gravitational wave antennas. Physics Letters, Section A: General, Atomic and Solid State Physics, 1996, 211, 139-142.	2.1	8
230	Application of the interferometric noise measurement technique for the study of intrinsic fluctuations in microwave isolators. Measurement Science and Technology, 1998, 9, 1593-1599.	2.6	8
231	Finite element realization of ultra-high quality factor frequency-temperature compensated sapphire-rutile whispering gallery mode resonators. , 0, , .		8
232	Cryogenic microwave amplifiers for precision measurements. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2000, 47, 1273-1274.	3.0	8
233	High Q-factor Bragg-reflection sapphire-loaded cavity TE/sub 01/spl delta// mode resonators. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2002, 49, 1628-1634.	3.0	8
234	Precise phase synchronization of a cryogenic microwave oscillator. Review of Scientific Instruments, 2010, 81, 064702.	1.3	8

#	Article	IF	Citations
235	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
236	Anomalously strong nonlinearity of unswept quartz acoustic cavities at liquid helium temperatures. Journal of Applied Physics, 2013, 114, 094506.	2.5	8
237	Sub-Doppler cooling of ytterbium with the ^1S_0â€"^1P_1 transition including ^171Yb (I=1/2). Journal of the Optical Society of America B: Optical Physics, 2014, 31, 1614.	2.1	8
238	Creating tuneable microwave media from a two-dimensional lattice of re-entrant posts. Journal of Applied Physics, 2015, 118, .	2.5	8
239	Spectroscopy and laser cooling on the $${}^{1}S_{0}$$ 1 S 0 â€" $$,^{3}P_{1}$$ 3 P 1 line in Yb via an injection-locked diode laser at 1,111.6Ânm. Applied Physics B: Lasers and Optics, 2015, 118, 517-525.	2.2	8
240	Methods for coherent optical Doppler orbitography. Journal of Geodesy, 2020, 94, 1.	3.6	8
241	Analysis of a low noise tunable oscillator based on a tunable sapphire loaded superconducting cavity. , 0, , .		7
242	Novel interferometric frequency discriminators for low noise microwave applications. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2001, 48, 743-749.	3.0	7
243	Application of the Method of Lines for High-Q Resonant Structures. , 2002, , .		7
244	Cryogenic dual-mode resonator for a fly-wheel oscillator for a caesium frequency standard. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2002, 49, 1349-1355.	3.0	7
245	Lithium tantalate - a high permittivity dielectric material for microwave communication systems. , 0, , .		7
246	Measurement of the strain-induced coefficient of permittivity of sapphire using whispering gallery modes excited in a high-Qacoustic sapphire oscillator. Measurement Science and Technology, 2004, 15, 2145-2149.	2.6	7
247	The dependence of the permittivity of sapphire on thermal deformation at cryogenic temperatures. Measurement Science and Technology, 2004, 15, 203-210.	2.6	7
248	Observation of persistent photoconductivity in bulk gallium arsenide and gallium phosphide samples at cryogenic temperatures using the whispering gallery mode method. Journal of Applied Physics, 2008, 104, 113714.	2.5	7
249	Microwaveâ€"toâ€"millimeter-wave synthesis chain phase noise performance. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 1895-1900.	3.0	7
250	Determination of Low Loss in Isotopically Pure Single Crystal 28Si at Low Temperatures and Single Microwave Photon Energy. Scientific Reports, 2017, 7, 44813.	3.3	7
251	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
252	The University of Western Australia?s Resonant-bar Gravitational Wave Experiment. Australian Journal of Physics, 1995, 48, 1007.	0.6	7

#	Article	IF	Citations
253	Accurate calibration technique for a resonant-mass gravitational wave detector. Review of Scientific Instruments, 2000, 71, 4282.	1.3	6
254	High-Q frequency stable dual-mode whispering gallery sapphire resonator. , 0, , .		6
255	Temperature compensation of the difference frequency between modes of orthogonal polarization in anisotropic dielectric resonators. , 0, , .		6
256	Improving the frequency stability of microwave oscillators by utilizing the dual-mode sapphire-loaded cavity resonator. Measurement Science and Technology, 2002, 13, 1284-1288.	2.6	6
257	Properties of a monolithic sapphire parametric transducer: prospects of measuring the standard quantum limit. Classical and Quantum Gravity, 2002, 19, 1877-1888.	4.0	6
258	A proposal for improving the noise floor of the gravitational wave antenna NiobÃ¨. Classical and Quantum Gravity, 2002, 19, 1967-1972.	4.0	6
259	Temperature fluctuations in a solid-nitrogen cooled secondary frequency standard. Cryogenics, 2002, 42, 45-48.	1.7	6
260	High-Q sapphire resonator with distributed Bragg reflectors. Electronics Letters, 2003, 39, 1791.	1.0	6
261	The dual-mode frequency-locked technique for the characterization of the temperature coefficient of permittivity of anisotropic materials. Measurement Science and Technology, 2004, 15, 29-34.	2.6	6
262	High-Q frequencyâ€“temperature compensated solid-nitrogen-cooled resonator-oscillators: first results. Electronics Letters, 2004, 40, 41.	1.0	6
263	Modified permittivity observed in bulk gallium arsenide and gallium phosphide samples at 50K using the whispering gallery mode method. Applied Physics Letters, 2008, 93, 062105.	3.3	6
264	Compact hollow-core photonic band gap resonator with optimised metallic cavity at microwave frequencies. Electronics Letters, 2011, 47, 805-807.	1.0	6
265	An ultra-low noise microwave oscillator based on a high-Q liquid nitrogen cooled sapphire resonator. , 0, , .		5
266	Novel temperature control of a sapphire loaded cavity oscillator from the difference frequency of WGE and WGH modes. , 0, , .		5
267	High-Q factor frequency-temperature compensated sapphire Bragg distributed resonator. Electronics Letters, 2003, 39, 293.	1.0	5
268	Cavity designs for a space hydrogen maser. , 0, , .		5
269	Whispering-gallery mode technique applied to the measurement of the dielectric properties of Langasite between 4 K and 300 K. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2004, 51, 484-490.	3.0	5
270	Frequency stability of Ti3+-doped whispering gallery mode sapphire resonator oscillator at 34â€…K. Electronics Letters, 2005, 41, 534.	1.0	5

#	Article	IF	Citations
271	High performance frequency dissemination for metrology applications with optical fibers. , 0, , .		5
272	Global representation of the fine structure constant and its variation. Metrologia, 2005, 42, 129-133.	1.2	5
273	Second generation 50 K dual-mode sapphire oscillator. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 284-288.	3.0	5
274	Dependence of the dielectric permittivity of single-crystal quartz on thermal deformation at cryogenic temperatures. Journal of Applied Physics, 2007, 102, 074103.	2.5	5
275	New measurement of the rubidium hyperfine frequency using LNE-SYRTE fountain ensemble. , 2008, , .		5
276	Hyperparametric effects in a whispering-gallery mode rutile dielectric resonator at liquid helium temperatures. Journal of Applied Physics, 2014, 116, 134105.	2.5	5
277	A new method of probing mechanical losses of coatings at cryogenic temperatures. Review of Scientific Instruments, 2016, 87, 123906.	1.3	5
278	Analysis of the whispering gallery mode sapphire Fe³⁺maser under magnetic field. EPJ Applied Physics, 2012, 57, 21005.	0.7	5
279	Oscillator performance from the time evolution of relative phase. Electronics Letters, 1994, 30, 149-151.	1.0	4
280	Tunable microwave oscillator for low phase noise applications. , 0, , .		4
281	A data analysis approach for detecting gravitational waves from PSR 0437â€“4715. Monthly Notices of the Royal Astronomical Society, 1998, 301, 469-477.	4.4	4
282	Filtering and calibration of data from a resonant-mass gravitational wave antenna. Classical and Quantum Gravity, 1999, 16, 3439-3456.	4.0	4
283	Tests of Lorentz invariance using a microwave resonator: an update. , 0, , .		4
284	Room temperature dual-mode oscillatorâ€”first results. Electronics Letters, 2006, 42, 99.	1.0	4
285	Cryogenic sapphire oscillator with exceptionally high long-term frequency stability. Frequency Control Symposium and Exhibition, Proceedings of the IEEE International, 2007, , .	0.0	4
286	Comparisons between 3 fountain clocks at LNE-SYRTE. Frequency Control Symposium and Exhibition, Proceedings of the IEEE International, 2007, , .	0.0	4
287	High power solid-state sapphire Whispering Gallery mode maser. , 2009, , .		4
288	Detrapping and retrapping of free carriers in nominally pure single crystal GaP, GaAs, and 4Hâ€“SiC semiconductors under light illumination at cryogenic temperatures. Journal of Applied Physics, 2010, 108, 104107.	2.5	4

#	Article	IF	Citations
289	Parametric model of the BAW resonator phase-noise. Ultrasonics, 2011, 51, 966-973.	3.9	4
290	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
291	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
292	Frequency-temperature sensitivity reduction with optimized microwave Bragg resonators. Journal of Applied Physics, 2017, 121, .	2.5	4
293	Low-temperature microwave properties of biaxial <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">YAlO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review B, 2017, 96, .	3.2	4
294	Resonances in large ferrimagnetic YIG samples â€“ Electrodynamic analysis. Journal of Magnetism and Magnetic Materials, 2021, 521, 167536.	2.3	4
295	Frequency-temperature compensation in Ti/sup 3+/ and Ti/sup 4+/ doped sapphire whispering gallery mode resonators. , 0, , .		3
296	Microwave secondary frequency standards: stability limits due to intrinsic fluctuations in frequency discriminator. , 2000, 10, 328-330.		3
297	Background Noise Reduction in Gravitational Wave Detectors Through Use of an Amplitude Ratio Filter. General Relativity and Gravitation, 2000, 32, 1281-1300.	2.0	3
298	Analysis of the rutile-ring method of frequency-temperature compensation of a high-Q whispering gallery sapphire resonator. , 0, , .		3
299	Design of a cryogenic dual-mode resonator for a fly-wheel oscillator for a cesium frequency standard. , 0, , .		3
300	Low-Noise Microwave Resonator-Oscillators: Current Status and Future Developments. , 2001, , 7-36.		3
301	New design of high-Q sapphire resonator with distributed Bragg reflector. , 0, , .		3
302	Constructing the next generation cryogenic sapphire oscillator. , 0, , .		3
303	Simple design rules for optimal design of dielectric temperature-compensated sapphire resonators. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2003, 50, 1204-1206.	3.0	3
304	Rotating michelson-morley experiment based on a dual cavity cryogenic sapphire oscillator. , 0, , .		3
305	The pharao time and frequency performance verification system. , 0, , .		3
306	Recent Experimental Tests of Special Relativity. , 2006, , 451-478.		3

#	Article	IF	Citations
307	Noise properties of cryogenic microwave amplifiers and relevance to oscillator frequency stabilization. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 575-581.	3.0	3
308	Jump chaotic behaviour of ultra low loss bulk acoustic wave cavities. Applied Physics Letters, 2014, 105, .	3.3	3
309	Properties related to Q-factors and noise of quartz resonator-based systems at 4K. , 2014, , .		3
310	Collective behavior ofCr3+ions in ruby revealed by whispering gallery modes. Physical Review A, 2015, 92, .	2.5	3
311	Bounds on higher-order Lorentz-violating photon sector coefficients from an asymmetric optical ring resonator experiment. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 2681-2684.	2.1	3
312	Whispering Gallery mode ESR spectroscopy and parameters measurement in single crystal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si6.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mtext>SrLaAlO</mml:mtext></mml:mrow><mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> at millikelvin temperature. Journal of Magnetic Resonance, 2017, 281, 209-216.	2.1	3
313	Response to â€œComment on â€˜Higher order reentrant post modes in cylindrical cavitiesâ€™â€•[J. Appl. Phys. 123, 226101 (2018)]. Journal of Applied Physics, 2018, 123, .	2.5	3
314	Determination of niobium cavity magnetic field screening via a dispersively hybridized magnonic sensor. Applied Physics Letters, 2020, 117, .	3.3	3
315	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
316	Noise Suppression With Cryogenic Resonators. IEEE Microwave and Wireless Components Letters, 2021, 31, 405-408.	3.2	3
317	The ORGAN Experiment. Springer Proceedings in Physics, 2020, , 37-43.	0.2	3
318	Future prospects for the university of Western Australia's cryogenic resonant-mass gravitational wave detector. European Physical Journal D, 1996, 46, 2909-2910.	0.4	2
319	An ultra-high quality factor microwave sapphire loaded superconducting cavity transducer. , 0, , .		2
320	Niobe: Improved noise temperature and back ground noise suppression. AIP Conference Proceedings, 2000, , .	0.4	2
321	Cs and Rb fountains. , 0, , .		2
322	NEW MICHELSON MORLEY EXPERIMENT BASED ON HIGH-Q SPHERICAL RESONATORS. , 2002, , .		2
323	The progress in the development of a solid nitrogen cooled dual-mode frequency-temperature-compensated sapphire-resonator oscillator. , 0, , .		2
324	Cold Atom Clocks, Precision Oscillators and Fundamental Tests. Lecture Notes in Physics, 2004, , 189-207.	0.7	2

#	Article	IF	Citations
325	Exciting traveling waves in high Q structures using microstrip. , 0, , .		2
326	Properties of Gravitational Waves in Cosmological General Relativity. International Journal of Theoretical Physics, 2006, 45, 2181-2190.	1.2	2
327	Flywheel oscillator for atomic fountain clocks using ultra-stable lasers and a fiber-based optical frequency comb. , 2009, , .		2
328	Method of power recycling in CoAxial Mach-Zehnder interferometers for low noise measurements. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 921-925.	3.0	2
329	Oscillator frequency stability improvement by means of negative feedback. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 2297-2304.	3.0	2
330	Quartz resonators at cryogenic temperatures: Noise and quality factor. , 2013, , .		2
331	Intrinsic phase noise properties and frequency stability of millimetreâ€wave module at 90ÂGHz. Electronics Letters, 2013, 49, 886-887.	1.0	2
332	Measurements of elastic properties of langatate at liquid helium temperatures for design of ultra low loss mechanical systems. Applied Physics Letters, 2014, 104, 261904.	3.3	2
333	Extremely high Q-factor mechanical modes in quartz bulk acoustic wave resonators at millikelvin temperature. , 2014, , .		2
334	Ferroelectric phase transition and crystal asymmetry monitoring of SrTiO3 using quasi TE m,1,1 and quasi TM m,1,1 modes. Journal of Applied Physics, 2019, 126, .	2.5	2
335	Low-Temperature Properties of Whispering-Gallery Modes in Isotopically Pure Silicon-28. Physical Review Applied, 2019, 11, .	3.8	2
336	Observation of low-temperature magnetomechanic effects in crystalline resonant phonon cavities. Physical Review B, 2019, 100, .	3.2	2
337	Generation of coherent phonons via a cavity enhanced photonic lambda scheme. Applied Physics Letters, 2020, 117, .	3.3	2
338	Broadband sensitivity improvement via coherent quantum feedback with PT-symmetry. , 2021, , .		2
339	Horloges en fontaine du BNM-SYRTE : rÃ©sultats rÃ©cents. European Physical Journal Special Topics, 2004, 119, 287-288.	0.2	2
340	Generation of bimodal solitons in a sapphire whispering-gallery-mode maser at millikelvin temperatures. Physical Review A, 2022, 105, .	2.5	2
341	Progress towards measuring the standard quantum limit using a monolithic sapphire transducer. , 0, , .		1
342	Fabry-Perot resonator with interferometric read-out for low noise applications. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2000, 47, 495-501.	3.0	1

#	Article	IF	Citations
343	New ultra-sensitive Michelson-Morely experiment. , 0, , .		1
344	High-Q whispering modes in spherical cavity resonators. , 0, , .		1
345	Realization of high-Q frequency-temperature compensated resonator with spurious mode free region. , 0, , .		1
346	Accurate characterization of the temperature coefficient of permittivity of sapphire utilizing the dual-mode frequency locked technique. , 0, , .		1
347	Cylindrical distributed bragg reflector resonators with extremely high Q-factors. , 0, , .		1
348	Evolution of the UWA solid nitrogen dual mode sapphire oscillator, JULIA. , 0, , .		1
349	Accurate measurements of very small coupling coefficients of electromagnetic resonators at microwave frequencies. Measurement Science and Technology, 2004, 15, 881-884.	2.6	1
350	Zero-field Fe/sup 3+/:sapphire whispering-gallery-mode solid-state MASER oscillator. , 0, , .		1
351	Comparisons between 3 fountain clocks at LNE-SYRTE. Proceedings of SPIE, 2007, , .	0.8	1
352	First dual mode operation of the Cs/Rb FO2 double fountain at SYRTE. , 2009, , .		1
353	BROADBAND RESONANT MASS GRAVITATIONAL WAVE DETECTION. International Journal of Modern Physics D, 2009, 18, 2317-2322.	2.1	1
354	High Precision Noise Measurements at Microwave Frequencies. , 2009, , .		1
355	LNE-SYRTE CLOCK ENSEMBLE: NEW ⁸⁷Rb HYPERFINE FREQUENCY MEASUREMENT - SPECTROSCOPY OF ¹⁹⁹Hg AND ²⁰¹Hg OPTICAL CLOCK TRANSITION. , 2009, , .		1
356	CRYOGENIC SAPPHIRE OSCILLATORS. , 2009, , .		1
357	Cryogenic properties of a diamond sample at microwave frequencies. , 2010, , .		1
358	Characterization of the distributed cavity phase shift in FO2 for improving the accuracy of SYRTE fountain clocks. , 2010, , .		1
359	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
360	â€˜Fast lightâ€™ effect in experiments with cryogenic resonators. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 221001.	1.5	1

#	Article	IF	Citations
361	Current limitations of cryogenic microwave oscillator frequency stability. , 2014, , .		1
362	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
363	Towards Cryogenic Quartz Oscillators: Coupling of a Bulk Acoustic Wave quartz resonator to a SQUID. , 2016, , .		1
364	Impact of coatings on the quality factor of a quartz crystal resonator at liquid helium temperature. , 2016, , .		1
365	Cryogenic optomechanics and the resurgence of the resonant-mass gravitational wave detector. New Journal of Physics, 2017, 19, 091001.	2.9	1
366	Electromagnetic properties of terbium gallium garnet at millikelvin temperatures and low photon energy. Applied Physics Letters, 2017, 111, 052402.	3.3	1
367	Experiments match simulations in a multiple post reentrant cavity. Review of Scientific Instruments, 2017, 88, 125104.	1.3	1
368	Indirect methods to control population distribution in a large spin system. New Journal of Physics, 2017, 19, 033016.	2.9	1
369	Aggregate frequency width, nuclear hyperfine coupling and Jahnâ€“Teller effect of Cu²⁺impurity ion ESR in SrLaAlO₄dielectric resonator at 20 millikelvin. Journal of Physics Condensed Matter, 2018, 30, 015802.	1.8	1
370	Whispering gallery mode dielectric spectroscopy of SrLaAlO4at milliKelvin temperatures. Journal of Applied Physics, 2018, 123, 234103.	2.5	1
371	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
372	Rigorous ESR spectroscopy of Fe³⁺ impurity ion with oxygen vacancy in ferroelectric SrTiO₃ crystal at 20 mK. Journal of Physics Condensed Matter, 2018, 30, 295805.	1.8	1
373	Precision Frequency Metrology for Axion Searches. , 2019, , .		1
374	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
375	AN ALTERNATIVE VIEW OF THE FINE STRUCTURE CONSTANT AND ITS VARIATION: BRINGING THE FLUX QUANTA INTO THE DEFINITION OF THE ELECTRON. , 2006, , .		1
376	Whispering gallery method of measuring complex permittivity in highly anisotropic materials. , 0, , .		0
377	Compact, high-Q, zero temperature coefficient, TE/sub 011/ sapphire-rutile microwave distributed Bragg reflector resonators. , 0, , .		0
378	A bi-directional interferometric frequency discriminator for low noise microwave applications. , 0, , .		0

#	Article	IF	Citations
379	Test for the time independence of the fine structure constant, Î±, using cryogenic sapphire resonators at microwave frequencies. , 0, , .		0
380	CURRENT STATUS OF CRYOGENIC (50 K - 80 K) SECONDARY FREQUENCY STANDARDS FOR FLYWHEELS OF ATOMIC FOUNTAIN CLOCKS. , 2002, , .		0
381	Exceptionally-enhanced Q-factor sapphire-loaded-cavity TE/sub 01Î´/ mode resonators. , 0, , .		0
382	The study of whispering modes in antsotropic and isotropic dielectric spherical resonators. , 0, , .		0
383	The dependence of phonon and paramagnetic resonances on the fine structure constant in sapphire and the possibility of a test of time dependence. , 0, , .		0
384	<title>Recent advances in measurements of permitivity and dielectric losses at microwave frequencies</title>. , 2004, 5445, 311.		0
385	Optimization of high-Q Bragg reflector resonator. , 2005, , .		0
386	Long term operation, performance and applications of cryogenic sapphire oscillators. , 0, , .		0
387	Comparison with an uncertainty of 2X10/sup -16/ between two primary frequency standards. , 0, , .		0
388	Room temperature dual-mode oscillator - first results. , 0, , .		0
389	Using Precision Oscillators and Interferometers to Test Fundamental Physics. , 2006, , .		0
390	Simple Design Technique for High Q-factor Bragg Reflector Resonators with Reflectors of Arbitrary Thickness. , 2006, , .		0
391	Anisotropic paramagnetic susceptibility of crystalline ruby at cryogenic temperatures. Frequency Control Symposium and Exhibition, Proceedings of the IEEE International, 2007, , .	0.0	0
392	High-Q Cylindrical Alumina Resonator Based on Bragg Confined Mode of Azimuthal Mode Number Greater Than Zero. Frequency Control Symposium and Exhibition, Proceedings of the IEEE International, 2007, , .	0.0	0
393	Gravitational waves in Cosmological General Relativity. AIP Conference Proceedings, 2007, , .	0.4	0
394	Design and Performance of Low-Phase Noise Microwave Oscillators. Frequency Control Symposium and Exhibition, Proceedings of the IEEE International, 2007, , .	0.0	0
395	Precision Microwave Oscillators and Interferometers to Test Lorentz Invariance in Electrodynamics (an Update). Frequency Control Symposium and Exhibition, Proceedings of the IEEE International, 2007, , .	0.0	0
396	Exciting traveling waves in high Q structures using microstrip. Journal of the European Ceramic Society, 2007, 27, 3023-3026.	5.7	0

#	Article	IF	Citations
397	Continuous operation of an odd parity Lorentz Invariance test in electrodynamics using a microwave interferometer. , 2008, , .		0
398	Method of power recycling in co-axial mach zender interferometers for low noise measurements. , 2008, , .		0
399	Noise measurements beyond the standard thermal noise limit. , 2008, , .		0
400	High confined Bragg modes for very low phase noise oscillator and narrow band filtering applications. , 2008, , .		0
401	Observation of a bimodal behavior in a Whispering Gallery mode maser oscillator. , 2008, , .		0
402	Hollow-core resonator based on out-of-plane 2D photonic band-gap crystal cladding. , 2009, , .		0
403	Observation of persistent photoconductivity and modified permittivity in bulk gallium arsenide and gallium phosphide samples at cryogenic temperatures. , 2009, , .		0
404	NEW RESULTS FOR WHISPERING GALLERY MODE CRYOGENIC SAPPHIRE MASER OSCILLATORS. , 2009, , .		0
405	Microwave cavity search for paraphotons. , 2010, , .		0
406	Gyrotropic paramagnetic properties of Fe³⁺ ions in a high-Q Whispering gallery mode sapphire resonator. , 2010, , .		0
407	High precision microwave interferometers and oscillators for applied and fundamental physics applications. , 2010, , .		0
408	Accurate phase synchronization of a cryogenic microwave oscillator. , 2010, , .		0
409	Testing Lorentz invariance using an asymetric optical resonator. , 2010, , .		0
410	Publisherâ€™s Note: Rotating odd-parity Lorentz invariance test in electrodynamics [Phys. Rev. D80, 125024 (2009)]. Physical Review D, 2010, 81, .	4.7	0
411	Characterization of the distributed cavity phase shift in LNE-SYRTE FO2 fountain. , 2010, , .		0
412	Generation of 100 GHz with parts in 1016 frequency stability using cryogenic sapphire oscillators. , 2011, , .		0
413	Rotating dual cryogenic sapphire oscillators with 10^{â˜’16} fractional frequency stability for tests of Lorentz invariance. , 2011, , .		0
414	Recent atomic fountain clock comparisons at LNE-SYRTE. , 2011, , .		0

#	Article	IF	Citations
415	Precision noise measurements and oscillator frequency stabilization. , 2011, , .		0
416	Study of Fe3+-sapphire maser above 4K. , 2011, , .		0
417	Sapphire whispering gallery mode resonators at millikelvin temperature. , 2011, , .		0
418	Rotating microwave cryogenic sapphire oscillators for tests of Lorentz Invariance. , 2011, , .		0
419	Testing for periodic changes in fundamental constants using long-term comparison of the SYRTE Cs fountains and H-masers. , 2012, , .		0
420	Measurement of temperature sensitivity of LGT elastic coefficients over [4K, 15K] cryogenic range. , 2012, , .		0
421	Linear and nonlinear effects of electron paramagnetic resonance in high-Q cryogenic sapphire microwave resonators. , 2012, , .		0
422	Cryogenic quartz frequency sources: Problems and perspectives. , 2012, , .		0
423	Some future applications of cryogenic high-Q resonant cavities. , 2012, , .		0
424	Electron spin resonance spectroscopy of high purity crystals at millikelvin temperatures. Proceedings of SPIE, 2013, , .	0.8	0
425	Non-intrusive tunable resonant microwave cavity for optical detected magnetic resonance of NV centres in nanodiamonds. Proceedings of SPIE, 2013, , .	0.8	0
426	Easily scalable resonator based on hollow-core photonic band gap crystal cladding for extremely high frequencies. , 2013, , .		0
427	Recent progress and perspectives of extremely low loss acoustic cavities: From frequency sources to artificial atoms. , 2013, , .		0
428	Testing speed of light isotropy using rotating cryogenic sapphire microwave oscillators. , 2014, , .		0
429	Sub-Doppler cooling with the ¹S<inf>0</inf>-¹P<inf>1</inf> line in ytterbium. , 2014, , .		0
430	Bulk acoustic wave resonator thermal noise measurements. , 2014, , .		0
431	Ultra-sensitive Whispering Gallery Mode spectroscopy of low loss crystals at cryogenic temperatures. , 2014, , .		0
432	Frequency stability and phase noise performance of Xâ€band to Kaâ€band active multiplier. Electronics Letters, 2015, 51, 2015-2017.	1.0	0

#	Article	IF	Citations
433	Quality factors of quartz crystal resonators operating at 4 Kelvins. , 2015, , .		0
434	Behavior of quartz crystal resonators at liquid helium temperature. , 2016, , .		0
435	Achieving long phonon lifetimes. Nature Materials, 2017, 16, 285-286.	27.5	0
436	Sensitivity characterisation of a parametric transducer for gravitational wave detection through optical spring effect. Classical and Quantum Gravity, 2017, 34, 175001.	4.0	0
437	Improving phonon sector tests of Lorentz Invariance. , 2017, , .		0
438	First search for axions of mass 110 Î¼eV using milliKelvin cooled 26.6 GHz microwave resonator. , 2017, , .		0
439	Better than Brillouin. Nature Physics, 2018, 14, 531-532.	16.7	0
440	Isotopically Pure Silcon-28 Whispering Gallery Mode Resonators: A Host for Narrow Linewidth Spin Ensembles. , 2018, , .		0
441	Bulk Acoustic Wave Resonator-Oscillators and Tests of Fundamental Physics. , 2019, , .		0
442	Experimental implementation of a large scale multipost re-entrant array. Applied Physics Express, 2019, 12, 054002.	2.4	0
443	TESTING THE FUNDAMENTALS OF PHYSICS USING CRYOGENIC MICROWAVE OSCILLATORS. , 2006, , .		0
444	DerniÃ¨res avancÃ©es dans les fontaines atomiques. European Physical Journal Special Topics, 2006, 135, 115-117.	0.2	0
445	Properties of Gravitational Waves in an Expanding Universe. , 2008, , 283-295.		0
446	Ultra-low Noise Microwave Generation Using Femtosecond Lasers and Applications. , 2010, , .		0
447	IMPROVEMENTS TO DATA ANALYSIS AND DESIGN OF A ROTATING MICHELSON-MORLEY EXPERIMENT USING CRYOGENIC SAPPHIRE MICROWAVE OSCILLATORS. , 2010, , .		0
448	CAVITY CONSTRAINTS ON ISOTROPIC SHIFT AND ANISOTROPIES OF THE SPEED OF LIGHT. , 2010, , .		0
449	Rotating Microwave Cryogenic Sapphire Oscillators for Tests of Lorentz Invariance. , 2011, , .		0
450	THE SCHENBERG SPHERICAL ANTENNA: STATUS REPORT. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
451	USING MICROWAVE CAVITIES TO TEST LORENTZ INVARIANCE. , 2014, , 131-134.		0
452	Precision Experiments of Photons Using Microwave Cavities to Test Lorentz-Invariance Violations and Fundamental Physics. , 2017, , .		0
453	Acoustic Tests of Lorentz Symmetry Using Bulk Acoustic Wave Quartz Oscillators. , 2017, , .		0
454	Precision Frequency Techniques to Search for Dark Matter and New Physics with Photonic, Phononic and Atomic Oscillators. , 2021, , .		0