

Giorgio Carelli

List of Publications by Year in descending order

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102
all docs

102
docs citations

102
times ranked

563
citing authors

#	ARTICLE	IF	CITATIONS
1	ModA-: a new mobile instrument for in situ double-pulse LIBS analysis. Analytical and Bioanalytical Chemistry, 2006, 385, 240-247.	3.7	105
2	A review of optically pumped far-infrared laser lines from methanol isotopes. Journal of Infrared, Millimeter and Terahertz Waves, 1994, 15, 1-44.	0.6	73
3	A ring lasers array for fundamental physics. Comptes Rendus Physique, 2014, 15, 866-874.	0.9	41
4	New large offset far-infrared laser lines from CD3OH. Applied Physics B, Photophysics and Laser Chemistry, 1987, 44, 111-117.	1.5	39
5	Deep underground rotation measurements: GINGERino ring laser gyroscope in Gran Sasso. Review of Scientific Instruments, 2017, 88, 034502.	1.3	37
6	GINGER: A feasibility study. European Physical Journal Plus, 2017, 132, 1.	2.6	36
7	A 1.82 m2 ring laser gyroscope for nano-rotational motion sensing. Applied Physics B: Lasers and Optics, 2012, 106, 271-281.	2.2	32
8	Fast analysis of complex metallic alloys by double-pulse time-integrated Laser-Induced Breakdown Spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2009, 64, 1068-1072.	2.9	28
9	Non-invasive absolute measurement of leaf water content using terahertz quantum cascade lasers. Plant Methods, 2017, 13, 51.	4.3	28
10	Underground Sagnac gyroscope with sub-prad/s rotation rate sensitivity: Toward general relativity tests on Earth. Physical Review Research, 2020, 2, .	3.6	26
11	Analysis of ring laser gyroscopes including laser dynamics. European Physical Journal C, 2019, 79, 1.	3.9	24
12	Performance of "G-Pisa" ring laser gyro at the Virgo site. Journal of Seismology, 2012, 16, 757-766.	1.3	20
13	Acoustooptic extension of the frequency tunability of CW CO2 lasers: New FIR lasers emissions from CH3OH and 13CH3OH. Journal of Infrared, Millimeter and Terahertz Waves, 1991, 12, 449-471.	0.6	18
14	Solid-state power supply for gas lasers. Review of Scientific Instruments, 2004, 75, 2686-2691.	1.3	18
15	Constraining theories of gravity by GINGER experiment. European Physical Journal Plus, 2021, 136, 1.	2.6	18
16	Heterodyne frequency measurements of FIR laser lines around 1.2 and 1.6 THz. IEEE Journal of Quantum Electronics, 1995, 31, 144-147.	1.9	16
17	Coherent multiwave heterodyne frequency measurement of a far-infrared laser by means of a femtosecond laser comb. Optics Letters, 2005, 30, 32.	3.3	16
18	Performances of "G-Pisa"™: a middle size gyrolaser. Classical and Quantum Gravity, 2010, 27, 084033.	4.0	16

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19	Spectroscopy of the excited C-O stretching Q branch of $^{13}\text{CD}_3\text{OH}$: Measurement and assignment of new FIR laser lines. <i>Infrared Physics</i> , 1992, 33, 133-139.	0.5	15
20	Horizontal rotation signals detected by a ring laser for the $M_w = 9.0$, March 2011, Japan earthquake. <i>Journal of Seismology</i> , 2012, 16, 767-776.	1.3	15
21	THz Water Transmittance and Leaf Surface Area: An Effective Nondestructive Method for Determining Leaf Water Content. <i>Sensors</i> , 2019, 19, 4838.	3.8	15
22	Laser-induced breakdown spectroscopy application to control of the process of precious metal recovery and recycling. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2012, 71-72, 123-126.	2.9	14
23	New FIR Laser Lines from CHD_2OH Methanol. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 2003, 24, 1649-1654.	0.6	13
24	Sensitivity limit investigation of a Sagnac gyroscope through linear regression analysis. <i>European Physical Journal C</i> , 2021, 81, 1.	3.9	12
25	CD_3OD optically pumped by a wave guide CO_2 laser: New FIR laser lines and frequency measurements. <i>Infrared Physics</i> , 1991, 31, 323-326.	0.5	11
26	Detection and Mixing Properties of an InSb Metal-Semiconductor Point Contact Diode. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1999, 20, 1121-1127.	0.6	11
27	A new pulsed CO_2 laser yielding new FIR laser lines from CH_3OD pumped by the 10P and 10HP lines. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2004, 37, 1979-1984.	1.5	11
28	Identification and correction of Sagnac frequency variations: an implementation for the GINGERINO data analysis. <i>European Physical Journal C</i> , 2020, 80, 1.	3.9	11
29	CH_3OH : FIR laser line frequency measurements and assignments. <i>Infrared Physics and Technology</i> , 1994, 35, 743-755.	2.9	10
30	Optically pumped $^{13}\text{CD}_3\text{OH}$: far infrared laser lines and assignment. <i>IEEE Journal of Quantum Electronics</i> , 1994, 30, 2946-2949.	1.9	10
31	Assignments of FIR Laser Lines from Optically Pumped $^{13}\text{CH}_3\text{OH}$. <i>Journal of Molecular Spectroscopy</i> , 1996, 177, 302-306.	1.2	10
32	Laser action in hydrazine: observation and characterization of new large offset FIR laser lines. <i>IEEE Journal of Quantum Electronics</i> , 1999, 35, 12-14.	1.9	10
33	Length measurement and stabilization of the diagonals of a square area laser gyroscope. <i>Classical and Quantum Gravity</i> , 2020, 37, 065025.	4.0	10
34	Frequency Characterization of a Terahertz Quantum-Cascade Laser. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2007, 56, 262-265.	4.7	9
35	New Terahertz Laser Lines From $^{13}\text{CD}_3\text{OH}$ Pumped by Regular and Hot Bands CO_2 Laser. <i>IEEE Journal of Quantum Electronics</i> , 2008, 44, 1104-1106.	1.9	9
36	Measurements and assignments of new large offset CD_3OH FIR laser lines. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1991, 12, 557-571.	0.6	8

#	ARTICLE	IF	CITATIONS
37	Experimental investigation of $^{13}\text{CD}_3\text{OH}$ infrared transitions by means of optoacoustic spectroscopy. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1992, 13, 1801-1823.	0.6	8
38	The $^{13}\text{CH}_3\text{OH}$ optically pumped far-infrared laser: new lines and frequency measurements. <i>IEEE Journal of Quantum Electronics</i> , 1996, 32, 1737-1739.	1.9	8
39	New far-infrared emissions and frequency measurements in hydrazine. <i>Applied Physics B: Lasers and Optics</i> , 2003, 77, 93-95.	2.2	8
40	Optical Pumping of CHD_2OH and CH_2DOH Methanol Isotopomers by Means of a New Pulsed CO_2 Laser: Characterization of New Far-Infrared Laser Emissions. <i>IEEE Journal of Quantum Electronics</i> , 2006, 42, 378-380.	1.9	8
41	Assignment of FIR Laser Lines of Hydrazine. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1999, 20, 759-768.	0.6	7
42	New FIR laser lines from hydrazine and assignments. <i>Applied Physics B: Lasers and Optics</i> , 2004, 78, 39-42.	2.2	7
43	First deep underground observation of rotational signals from an earthquake at teleseismic distance using a large ring laser gyroscope. <i>Annals of Geophysics</i> , 2016, 59, .	1.0	7
44	Observation and assignment of D_2^{18}O FIR laser lines optically pumped by a waveguide CO_2 laser. <i>IEEE Journal of Quantum Electronics</i> , 1989, 25, 1884-1888.	1.9	6
45	Frequency measurements of far infrared laser lines by means of MIM point contact diodes. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1994, 15, 1347-1360.	0.6	6
46	Absolute control of the scale factor in GP2 laser gyroscope: Toward a ground based detector of the lens-thirring effect. , 2013, , .		6
47	Measuring general relativity effects in a terrestrial lab by means of laser gyroscopes. <i>Laser Physics</i> , 2014, 24, 074005.	1.2	6
48	Optically pumped CW fir laser: New submillimeter laser emissions from CH_2DOH , CH_3I , CD_3I , and trioxymethylene. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1997, 18, 1281-1284.	0.6	5
49	Measurements of Near-Infrared Frequency Mixing by Metal-Semiconductor Point-Contact Diodes. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2005, 54, 1407-1411.	4.7	5
50	Rotational sensitivity of the G-Pisa gyrolaser. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2010, 57, 618-622.	3.0	5
51	A laser gyroscope system to detect the gravito-magnetic effect on Earth. <i>Journal of Physics: Conference Series</i> , 2012, 375, 062005.	0.4	5
52	Effects of temperature variations in high-sensitivity Sagnac gyroscope. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	5
53	High-Resolution Spectroscopy of $\text{CH}_3^{18}\text{OH}$: Stark Behavior of FIR Laser Lines. <i>Journal of Molecular Spectroscopy</i> , 1996, 177, 79-89.	1.2	4
54	Methanol Laser Line Assignments: Evidence of Four-Level Laser Systems. <i>Journal of Molecular Spectroscopy</i> , 1998, 188, 37-42.	1.2	4

#	ARTICLE	IF	CITATIONS
55	GaSb and InAs: New Materials for Metal-Semiconductor Point-Contact Diodes. Journal of Infrared, Millimeter and Terahertz Waves, 2003, 24, 799-811.	0.6	4
56	The $^{13}\text{CH}_3\text{OH}$ far-infrared laser: new lines and assignments. Infrared Physics and Technology, 2004, 45, 243-248.	2.9	4
57	Measurement of small oscillations with the help of a femtosecond laser. Laser Physics Letters, 2004, 1, 570-575.	1.4	4
58	Re-investigation of optically pumped hydrazine far-infrared laser around $11 \mu\text{m}$ from the 10HP and 10P bands of a pulsed CO_2 laser: new lines and assignments. IEEE Journal of Quantum Electronics, 2004, 40, 1603-1606.	1.9	4
59	Assignments of methanol laser lines by frequency measurements and Fourier transform spectroscopy. Journal of Infrared, Millimeter and Terahertz Waves, 1994, 15, 619-633.	0.6	3
60	Electric field effects on roto-vibrational transitions of $^{13}\text{CD}_3\text{OH}$. Journal of Infrared, Millimeter and Terahertz Waves, 1995, 16, 2233-2248.	0.6	3
61	FIR spectroscopy of ethyl bromide and trioxane: New laser transitions and assignments. Infrared Physics and Technology, 1997, 38, 437-442.	2.9	3
62	Title is missing!. Journal of Infrared, Millimeter and Terahertz Waves, 1998, 19, 1191-1199.	0.6	3
63	CW submillimeter laser action in ethyl chloride. IEEE Journal of Quantum Electronics, 1998, 34, 238-240.	1.9	3
64	The vinyl bromide optically pumped far infrared laser: new large offset emissions. IEEE Journal of Quantum Electronics, 2001, 37, 489-493.	1.9	3
65	Title is missing!. Journal of Infrared, Millimeter and Terahertz Waves, 2001, 22, 1761-1768.	0.6	3
66	High-stability 72-GHz Gunn oscillator for the characterization of ultra-high-speed optical receivers based on Inp and InSb Schottky diodes. IEEE Transactions on Instrumentation and Measurement, 2003, 52, 1190-1194.	4.7	3
67	Hydrazine far-infrared laser lines and assignments: a review. Journal of the Optical Society of America B: Optical Physics, 2005, 22, 1461.	2.1	3
68	A possible role of leaf vascular network in heat dissipation in <i>Vitis vinifera</i> L.. Revista Brasileira De Botanica, 2018, 41, 227-231.	1.3	3
69	Ring laser gyroscopes in the underground Gran Sasso Laboratories. Quantum Electronics, 2019, 49, 195-198.	1.0	3
70	On the work mechanism of MIM point contact diodes. Journal of Infrared, Millimeter and Terahertz Waves, 1992, 13, 1099-1114.	0.6	2
71	Investigation for long wavelength FIR laser lines for EPR studies: New lines from $\text{CH}_2=\text{CF}_2$. Journal of Infrared, Millimeter and Terahertz Waves, 1996, 17, 1023-1030.	0.6	2
72	Frequency measurements of CD_3OH and $^{13}\text{CH}_3\text{OH}$ optically pumped far-infrared laser lines. Journal of the Optical Society of America B: Optical Physics, 1997, 14, 2800.	2.1	2

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73	Optically pumped submillimeter laser lines from CD ₂ Cl ₂ using a large tunability CW CO ₂ laser. Journal of Infrared, Millimeter and Terahertz Waves, 1997, 18, 779-783.	0.6	2
74	New FIR laser lines from fully deuterated dichloromethane: completion of perpendicular/parallel emission pairs. IEEE Journal of Quantum Electronics, 2000, 36, 1232-1236.	1.9	2
75	High-stability 72 GHz Gunn oscillator for the characterization of ultra-high-speed optical receivers based on InP and InSb Schottky diodes. , 0, , .		2
76	Manipulation of ultracold atomic mixtures using microwave techniques. Optics Communications, 2006, 257, 340-348.	2.1	2
77	¹² CH ₃ OH and ¹³ CH ₃ OH optically pumped by the 10P and 10HP bands of a pulsed CO ₂ laser: New far-infrared laser emissions and assignments. Applied Physics B: Lasers and Optics, 2006, 83, 495-497.	2.2	2
78	External metrology system for the stabilization of large ring-lasers. , 2016, , .		2
79	Sagnac gyroscopes, GINGERINO, and GINGER. Journal of Physics: Conference Series, 2020, 1468, 012243.	0.4	2
80	Optical properties of YBaCuO thin films at Far-Infrared monochromatic light. Journal of Infrared, Millimeter and Terahertz Waves, 1995, 16, 1189-1199.	0.6	1
81	Assignment and frequency measurement of rotational transitions of ¹³ CD ₃ OH by intracavity laser Stark spectroscopy. Infrared Physics and Technology, 1996, 37, 547-551.	2.9	1
82	High resolution spectroscopy of ¹³ CH ₃ OH around the 10R(20) CO ₂ laser emission: New FIR laser lines, frequency measurements and assignments. Journal of Quantitative Spectroscopy and Radiative Transfer, 1997, 57, 75-79.	2.3	1
83	Title is missing!. Journal Physics D: Applied Physics, 2000, 33, 345-348.	2.8	1
84	IR and FIR Spectroscopy of ¹³ CH ₃ I. Journal of Infrared, Millimeter and Terahertz Waves, 2008, 29, 1028-1031.	0.6	1
85	The GINGER Project. Nuclear and Particle Physics Proceedings, 2017, 291-293, 140-145.	0.5	1
86	G-LAS a ring laser goniometer for angular metrology. , 2017, , .		1
87	Small scale ring laser gyroscopes as environmental monitors. Journal of Physics: Conference Series, 2020, 1468, 012220.	0.4	1
88	Characterization and frequency measurement of a new far infrared laser line from CH ₂ F ₂ . Infrared Physics and Technology, 1994, 35, 855-858.	2.9	0
89	Analysis of the ethyl chloride $\hat{\nu}_{29}$ band by means of the assignment of new far infrared laser lines. Infrared Physics and Technology, 1998, 39, 89-92.	2.9	0
90	Assignment of Fir Laser Lines of Fully Deuterated Dichloromethane. Journal of Infrared, Millimeter and Terahertz Waves, 2001, 22, 1421-1431.	0.6	0

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91	New Schottky diodes with very broad frequency band. , 0, , .		0
92	FIR Laser Lines from CH3OD: A Review. Journal of Infrared, Millimeter and Terahertz Waves, 2004, 25, 725-734.	0.6	0
93	<title>Heterodyne measurements in FIR range with a femtosecond laser used as a reference oscillator</title>. , 2004, , .		0
94	G-Pisa gyrolaser. , 2009, , .		0
95	Laser gyroscopes for very high sensitive applications. , 2012, , .		0
96	A network of heterodyne laser interferometers for monitoring and control of large ring-lasers. Proceedings of SPIE, 2016, , .	0.8	0
97	Analysis of 90 day operation of the GINGERINO gyroscope: publisherâ€™s note. Applied Optics, 2018, 57, 8373.	1.8	0