# Giorgio Carelli

List of Publications by Year
in descending order

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|---|---|---|---|
| 97 papers | 988 citations | 516710 16 h-index | 526287 27 g-index |
| 102 all docs | 102 docs citations | 102 times ranked | 563 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Constraining theories of gravity by GINGER experiment. European Physical Journal Plus, 2021, 136, 1. | 2.6 | 18 |
| 2 | Effects of temperature variations in high-sensitivity Sagnac gyroscope. European Physical Journal Plus, 2021, 136, 1. | 2.6 | 5 |
| 3 | Sensitivity limit investigation of a Sagnac gyroscope through linear regression analysis. European Physical Journal C, 2021, 81, 1. | 3.9 | 12 |
| 4 | Length measurement and stabilization of the diagonals of a square area laser gyroscope. Classical and Quantum Gravity, 2020, 37, 065025. | 4.0 | 10 |
| 5 | Small scale ring laser gyroscopes as environmental monitors. Journal of Physics: Conference Series, 2020, 1468, 012220. | 0.4 | 1 |
| 6 | Sagnac gyroscopes, GINGERINO, and GINGER. Journal of Physics: Conference Series, 2020, 1468, 012243. | 0.4 | 2 |
| 7 | Identification and correction of Sagnac frequency variations: an implementation for the GINGERINO data analysis. European Physical Journal C, 2020, 80, 1. | 3.9 | 11 |
| 8 | Underground Sagnac gyroscope with sub-prad/s rotation rate sensitivity: Toward general relativity tests on Earth. Physical Review Research, 2020, 2, . | 3.6 | 26 |
| 9 | Ring laser gyroscopes in the underground Gran Sasso Laboratories. Quantum Electronics, 2019, 49, 195-198. | 1.0 | 3 |
| 10 | Analysis of ring laser gyroscopes including laser dynamics. European Physical Journal C, 2019, 79, 1. | 3.9 | 24 |
| 11 | THz Water Transmittance and Leaf Surface Area: An Effective Nondestructive Method for Determining Leaf Water Content. Sensors, 2019, 19, 4838. | 3.8 | 15 |
| 12 | A possible role of leaf vascular network in heat dissipation in Vitis vinifera L.. Revista Brasileira De Botanica, 2018, 41, 227-231. | 1.3 | 3 |
| 13 | Analysis of 90 day operation of the GINGERINO gyroscope: publisherâ€™s note. Applied Optics, 2018, 57, 8373. | 1.8 | 0 |
| 14 | Deep underground rotation measurements: GINGERino ring laser gyroscope in Gran Sasso. Review of Scientific Instruments, 2017, 88, 034502. | 1.3 | 37 |
| 15 | GINGER: A feasibility study. European Physical Journal Plus, 2017, 132, 1. | 2.6 | 36 |
| 16 | Non-invasive absolute measurement of leaf water content using terahertz quantum cascade lasers. Plant Methods, 2017, 13, 51. | 4.3 | 28 |
| 17 | The GINGER Project. Nuclear and Particle Physics Proceedings, 2017, 291-293, 140-145. | 0.5 | 1 |
| 18 | G-LAS a ring laser goniometer for angular metrology. , 2017, , . | | 1 |

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|---|---|---|---|
| 19 | A network of heterodyne laser interferometers for monitoring and control of large ring-lasers. Proceedings of SPIE, 2016, , . | 0.8 | 0 |
| 20 | External metrology system for the stabilization of large ring-lasers. , 2016, , . | | 2 |
| 21 | First deep underground observation of rotational signals from an earthquake at teleseismic distance using a large ring laser gyroscope. Annals of Geophysics, 2016, 59, . | 1.0 | 7 |
| 22 | A ring lasers array for fundamental physics. Comptes Rendus Physique, 2014, 15, 866-874. | 0.9 | 41 |
| 23 | Measuring general relativity effects in a terrestrial lab by means of laser gyroscopes. Laser Physics, 2014, 24, 074005. | 1.2 | 6 |
| 24 | Absolute control of the scale factor in GP2 laser gyroscope: Toward a ground based detector of the lense-thirring effect. , 2013, , . | | 6 |
| 25 | Horizontal rotation signals detected by â€œG-Pisaâ€•ring laser for the M w = 9.0, March 2011, Japan earthquake. Journal of Seismology, 2012, 16, 767-776. | 1.3 | 15 |
| 26 | Performance of â€œG-Pisaâ€•ring laser gyro at the Virgo site. Journal of Seismology, 2012, 16, 757-766. | 1.3 | 20 |
| 27 | Laser gyroscopes for very high sensitive applications. , 2012, , . | | 0 |
| 28 | Laser-induced breakdown spectroscopy application to control of the process of precious metal recovery and recycling. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2012, 71-72, 123-126. | 2.9 | 14 |
| 29 | A laser gyroscope system to detect the gravito-magnetic effect on Earth. Journal of Physics: Conference Series, 2012, 375, 062005. | 0.4 | 5 |
| 30 | 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 |
| 31 | Performances of â€˜G-Pisaâ€™: a middle size gyrolaser. Classical and Quantum Gravity, 2010, 27, 084033. | 4.0 | 16 |
| 32 | Rotational sensitivity of the G-Pisa gyrolaser. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 618-622. | 3.0 | 5 |
| 33 | G-Pisa gyrolaser. , 2009, , . | | 0 |
| 34 | 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 |
| 35 | IR and FIR Spectroscopy of 13CH3I. Journal of Infrared, Millimeter and Terahertz Waves, 2008, 29, 1028-1031. | 0.6 | 1 |
| 36 | New Terahertz Laser Lines From $^{13}{hbox {CD}}_{3}{hbox {OH}}$ Pumped by Regular and Hot Bands ${hbox {CO}}_{2}$ Laser. IEEE Journal of Quantum Electronics, 2008, 44, 1104-1106. | 1.9 | 9 |

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| 37 | Frequency Characterization of a Terahertz Quantum-Cascade Laser. IEEE Transactions on Instrumentation and Measurement, 2007, 56, 262-265. | 4.7 | 9 |
| 38 | Optical Pumping of<tex>$hbox CHD_2hbox OH$</tex>and<tex>$hbox CH_2hbox DOH$</tex>Methanol Isotopomers by Means of a New Pulsed<tex>$hbox CO_2$</tex>Laser: Characterization of New Far-Infrared Laser Emissions. IEEE Journal of Quantum Electronics, 2006, 42, 378-380. | 1.9 | 8 |
| 39 | Manipulation of ultracold atomic mixtures using microwave techniques. Optics Communications, 2006, 257, 340-348. | 2.1 | 2 |
| 40 | 12CH3OH and 13CH3OH optically pumped by the 10P and 10HP bands of a pulsed CO2 laser: New far-infrared laser emissions and assignments. Applied Physics B: Lasers and Optics, 2006, 83, 495-497. | 2.2 | 2 |
| 41 | ModÃ¬: a new mobile instrument for in situ double-pulse LIBS analysis. Analytical and Bioanalytical Chemistry, 2006, 385, 240-247. | 3.7 | 105 |
| 42 | Measurements of Near-Infrared Frequency Mixing by Metalâ€“Semiconductor Point-Contact Diodes. IEEE Transactions on Instrumentation and Measurement, 2005, 54, 1407-1411. | 4.7 | 5 |
| 43 | 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 |
| 44 | Coherent multiwave heterodyne frequency measurement of a far-infared laser by means of a femtosecond laser comb. Optics Letters, 2005, 30, 32. | 3.3 | 16 |
| 45 | FIR Laser Lines from CH3OD: A Review. Journal of Infrared, Millimeter and Terahertz Waves, 2004, 25, 725-734. | 0.6 | 0 |
| 46 | The 13CH3OH far-infrared laser: new lines and assignments. Infrared Physics and Technology, 2004, 45, 243-248. | 2.9 | 4 |
| 47 | New FIR laser lines from hydrazine and assignments. Applied Physics B: Lasers and Optics, 2004, 78, 39-42. | 2.2 | 7 |
| 48 | Measurement of small oscillations with the help of a femtosecond laser. Laser Physics Letters, 2004, 1, 570-575. | 1.4 | 4 |
| 49 | Solid-state power supply for gas lasers. Review of Scientific Instruments, 2004, 75, 2686-2691. | 1.3 | 18 |
| 50 | A new pulsed CO2laser yielding new FIR laser lines from CH3OD pumped by the 10P and 10HP lines. Journal of Physics B: Atomic, Molecular and Optical Physics, 2004, 37, 1979-1984. | 1.5 | 11 |
| 51 | <title>Heterodyne measurements in FIR range with a femtosecond laser used as a reference oscillator</title>. , 2004, , . | | 0 |
| 52 | Re-investigation of optically pumped hydrazine far-infrared laser around 11 /spl mu/m from the 10HP and 10P bands of a pulsed CO/sub 2/ laser: new lines and assignments. IEEE Journal of Quantum Electronics, 2004, 40, 1603-1606. | 1.9 | 4 |
| 53 | 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 |
| 54 | New FIR Laser Lines from CHD2OH Methanol. Journal of Infrared, Millimeter and Terahertz Waves, 2003, 24, 1649-1654. | 0.6 | 13 |

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| 55 | New far-infrared emissions and frequency measurements in hydrazine. Applied Physics B: Lasers and Optics, 2003, 77, 93-95. | 2.2 | 8 |
| 56 | 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 |
| 57 | The vinyl bromide optically pumped far infrared laser: new large offset emissions. IEEE Journal of Quantum Electronics, 2001, 37, 489-493. | 1.9 | 3 |
| 58 | Title is missing!. Journal of Infrared, Millimeter and Terahertz Waves, 2001, 22, 1761-1768. | 0.6 | 3 |
| 59 | Assignment of Fir Laser Lines of Fully Deuterated Dichloromethane. Journal of Infrared, Millimeter and Terahertz Waves, 2001, 22, 1421-1431. | 0.6 | 0 |
| 60 | Title is missing!. Journal Physics D: Applied Physics, 2000, 33, 345-348. | 2.8 | 1 |
| 61 | 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 |
| 62 | Assignment of FIR Laser Lines of Hydrazine. Journal of Infrared, Millimeter and Terahertz Waves, 1999, 20, 759-768. | 0.6 | 7 |
| 63 | Detection and Mixing Properties of an InSb Metal-Semiconductor Point Contact Diode. Journal of Infrared, Millimeter and Terahertz Waves, 1999, 20, 1121-1127. | 0.6 | 11 |
| 64 | Laser action in hydrazine: observation and characterization of new large offset FIR laser lines. IEEE Journal of Quantum Electronics, 1999, 35, 12-14. | 1.9 | 10 |
| 65 | Title is missing!. Journal of Infrared, Millimeter and Terahertz Waves, 1998, 19, 1191-1199. | 0.6 | 3 |
| 66 | Methanol Laser Line Assignments: Evidence of Four-Level Laser Systems. Journal of Molecular Spectroscopy, 1998, 188, 37-42. | 1.2 | 4 |
| 67 | Analysis of the ethyl chloride Î½9 band by means of the assignment of new far infrared laser lines. Infrared Physics and Technology, 1998, 39, 89-92. | 2.9 | 0 |
| 68 | CW submillimeter laser action in ethyl chloride. IEEE Journal of Quantum Electronics, 1998, 34, 238-240. | 1.9 | 3 |
| 69 | Frequency measurements of CD_3OH and ^13CH_3OH optically pumped far-infrared laser lines. Journal of the Optical Society of America B: Optical Physics, 1997, 14, 2800. | 2.1 | 2 |
| 70 | Optically pumped submillimeter laser lines from CD2Cl2 using a large tunability CW CO2 laser. Journal of Infrared, Millimeter and Terahertz Waves, 1997, 18, 779-783. | 0.6 | 2 |
| 71 | Optically pumped CW fir laser: New submillimeter laser emissions from CH2DOH, CH3I, CD3I, and trioxymethylene. Journal of Infrared, Millimeter and Terahertz Waves, 1997, 18, 1281-1284. | 0.6 | 5 |
| 72 | FIR spectroscopy of ethyl bromide and trioxane: New laser transitions and assignments. Infrared Physics and Technology, 1997, 38, 437-442. | 2.9 | 3 |

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| 73 | High resolution spectroscopy of 13CH3OH around the 10R(20) CO2 laser emission: New FIR laser lines, frequency measurements and assignments. Journal of Quantitative Spectroscopy and Radiative Transfer, 1997, 57, 75-79. | 2.3 | 1 |
| 74 | The /sup 13/CH/sub 3/OH optically pumped far-infrared laser: new lines and frequency measurements. IEEE Journal of Quantum Electronics, 1996, 32, 1737-1739. | 1.9 | 8 |
| 75 | Investigation for long wavelength fir laser lines for EPR studies: New lines from CH2=CF2. Journal of Infrared, Millimeter and Terahertz Waves, 1996, 17, 1023-1030. | 0.6 | 2 |
| 76 | High-Resolution Spectroscopy of CH318OH: Stark Behavior of FIR Laser Lines. Journal of Molecular Spectroscopy, 1996, 177, 79-89. | 1.2 | 4 |
| 77 | Assignments of FIR Laser Lines from Optically Pumped13CH3OH. Journal of Molecular Spectroscopy, 1996, 177, 302-306. | 1.2 | 10 |
| 78 | Assignment and frequency measurement of rotational transitions of 13CD3OH by intracavity laser Stark spectroscopy. Infrared Physics and Technology, 1996, 37, 547-551. | 2.9 | 1 |
| 79 | 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 |
| 80 | Electric field effects on roto-vibrational transitions of13CD3OH1. Journal of Infrared, Millimeter and Terahertz Waves, 1995, 16, 2233-2248. | 0.6 | 3 |
| 81 | 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 |
| 82 | Frequency measurements of far infrared laser lines by means of MIM point contact diodes. Journal of Infrared, Millimeter and Terahertz Waves, 1994, 15, 1347-1360. | 0.6 | 6 |
| 83 | 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 |
| 84 | 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 |
| 85 | CH318OH: FIR laser line frequency measurements and assignments. Infrared Physics and Technology, 1994, 35, 743-755. | 2.9 | 10 |
| 86 | Characterization and frequency measurement of a new far infrared laser line from CHin2Fin2. Infrared Physics and Technology, 1994, 35, 855-858. | 2.9 | 0 |
| 87 | Optically pumped /sup 13/CD/sub 3/OH: far infrared laser lines and assignment. IEEE Journal of Quantum Electronics, 1994, 30, 2946-2949. | 1.9 | 10 |
| 88 | On the work mechanism of MIM point contact diodes. Journal of Infrared, Millimeter and Terahertz Waves, 1992, 13, 1099-1114. | 0.6 | 2 |
| 89 | Experimental investigation of13CD3OH infrared transitions by means of optoacoustic spectroscopy. Journal of Infrared, Millimeter and Terahertz Waves, 1992, 13, 1801-1823. | 0.6 | 8 |
| 90 | Spectroscopy of the excited C-O stretching Q branch of 13CD3OH: Measurement and assignment of new FIR laser lines. Infrared Physics, 1992, 33, 133-139. | 0.5 | 15 |

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|---|---|---|---|
| 91 | CD3OD optically pumped by a wave guide CO2 laser: New FIR laser lines and frequency measurements. Infrared Physics, 1991, 31, 323-326. | 0.5 | 11 |
| 92 | Measurements and assignments of new large offset CD3OH FIR laser lines. Journal of Infrared, Millimeter and Terahertz Waves, 1991, 12, 557-571. | 0.6 | 8 |
| 93 | Acoustooptic extension of the frequency tunability of CW CO2 lasers: New FIR lasers emissions from CH3OH and13CH3OH. Journal of Infrared, Millimeter and Terahertz Waves, 1991, 12, 449-471. | 0.6 | 18 |
| 94 | Observation and assignment of D/sub 2//sup 18/O FIR laser lines optically pumped by a waveguide CO/sub 2/ laser. IEEE Journal of Quantum Electronics, 1989, 25, 1884-1888. | 1.9 | 6 |
| 95 | New large offset far-infrared laser lines from CD3OH. Applied Physics B, Photophysics and Laser Chemistry, 1987, 44, 111-117. | 1.5 | 39 |
| 96 | High-stability 72 GHz Gunn oscillator for the characterization of ultra-high-speed optical receivers based on InP and InSb Schottky diodes. , 0, , . | | 2 |
| 97 | New Schottky diodes with very broad frequency band. , 0, , . | | 0 |