

Janis Alnis

List of Publications by Citations

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

42
papers

1,347
citations

17
h-index

36
g-index

49
ext. papers

1,599
ext. citations

3.8
avg, IF

3.84
L-index

#	Paper	IF	Citations
42	A 920-kilometer optical fiber link for frequency metrology at the 19th decimal place. <i>Science</i> , 2012 , 336, 441-4	33.3	293
41	Improved measurement of the hydrogen 1S-2S transition frequency. <i>Physical Review Letters</i> , 2011 , 107, 203001	7.4	270
40	Precision measurement of the hydrogen 1S-2S frequency via a 920-km fiber link. <i>Physical Review Letters</i> , 2013 , 110, 230801	7.4	131
39	Precision measurement of the hydrogen-deuterium 1S-2S isotope shift. <i>Physical Review Letters</i> , 2010 , 104, 233001	7.4	96
38	Analysis of gas dispersed in scattering media. <i>Optics Letters</i> , 2001 , 26, 16-8	3	89
37	Sum-frequency generation with a blue diode laser for mercury spectroscopy at 254 nm. <i>Applied Physics Letters</i> , 2000 , 76, 1234-1236	3.4	45
36	Precision spectroscopy of the 2S-4P transition in atomic hydrogen on a cryogenic beam of optically excited 2S atoms. <i>Annalen Der Physik</i> , 2013 , 525, 671-679	2.6	37
35	Concentration measurement of gas embedded in scattering media by employing absorption and time-resolved laser spectroscopy. <i>Applied Optics</i> , 2002 , 41, 3538-44	1.7	36
34	Dual-mode temperature compensation technique for laser stabilization to a crystalline whispering gallery mode resonator. <i>Optics Express</i> , 2012 , 20, 19185-93	3.3	32
33	Measurement of the 2S hyperfine interval in atomic hydrogen. <i>Physical Review Letters</i> , 2009 , 102, 213002	7.4	31
32	Laser spectroscopy of free molecular oxygen dispersed in wood materials. <i>Applied Physics B: Lasers and Optics</i> , 2003 , 77, 691-695	1.9	25
31	Observation of positronium annihilation in the 2S state: towards a new measurement of the 1S-2S transition frequency. <i>Hyperfine Interactions</i> , 2015 , 233, 67-73	0.8	24
30	Atomic spectroscopy with violet laser diodes. <i>American Journal of Physics</i> , 2000 , 68, 660-664	0.7	20
29	Whispering gallery mode resonator and glucose oxidase based glucose biosensor. <i>Sensors and Actuators B: Chemical</i> , 2020 , 318, 128004	8.5	19
28	Frequency-modulation spectroscopy with blue diode lasers. <i>Applied Optics</i> , 2000 , 39, 3774-80	1.7	19
27	Angular-momentum spatial distribution symmetry breaking in Rb by an external magnetic field. <i>Physical Review A</i> , 2001 , 63,	2.6	18
26	The Hanle effect and level crossing spectroscopy in Rb vapour under strong laser excitation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2003 , 36, 1161-1173	1.3	17

25	Reverse dark resonance in Rb excited by a diode laser. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2001 , 34, 3889-3898	1.3	17
24	Low phase noise diode laser oscillator for 1S-2S spectroscopy in atomic hydrogen. <i>Optics Letters</i> , 2011 , 36, 4299-301	3	15
23	Long-path monitoring of NO ₂ with a 635 nm diode laser using frequency-modulation spectroscopy. <i>Applied Optics</i> , 2005 , 44, 5148-51	1.7	15
22	A 1+1 Ionization Scheme for Sensitive Detection of the OH Radical. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 7138-7141	2.8	15
21	Measurement and prediction of the speed-dependent throughput of a magnetic octupole velocity filter including nonadiabatic effects. <i>Physical Review A</i> , 2003 , 68,	2.6	13
20	Sub-Doppler spectroscopy of Rb atoms in a sub-micron vapour cell in the presence of a magnetic field. <i>Journal of Optics</i> , 2004 , 6, S142-S150		10
19	Frequency comb generation in WGM microsphere based generators for telecommunication applications. <i>Quantum Electronics</i> , 2020 , 50, 1043-1049	1.8	10
18	Spectral parameters of reference-cavity-stabilised lasers. <i>Quantum Electronics</i> , 2008 , 38, 391-400	1.8	9
17	Demonstration of a fiber optical communication system employing a silica microsphere-based OFC source. <i>Optics Express</i> , 2021 , 29, 10903-10913	3.3	7
16	High-Sensitivity Whispering Gallery Mode Humidity Sensor Based on Glycerol Microdroplet Volumetric Expansion. <i>Sensors</i> , 2021 , 21,	3.8	5
15	Whispering gallery mode resonators covered by a ZnO nanolayer. <i>Optik</i> , 2020 , 219, 165296	2.5	4
14	Vibrational effects in Na ₂ (A ¹ Σ ⁺ _u , v?) + Na(3p ³ /2) associative ionization. <i>Chemical Physics Letters</i> , 1999 , 304, 69-72	2.5	3
13	Kerr Optical Frequency Combs With Multi-FSR Mode Spacing in Silica Microspheres. <i>IEEE Photonics Technology Letters</i> , 2021 , 33, 453-456	2.2	3
12	Nonlinear Absorption and Refraction of Picosecond and Femtosecond Pulses in HgTe Quantum Dot Films. <i>Nanomaterials</i> , 2021 , 11,	5.4	3
11	Numerical 2D And 3D Simulations of a Spherical Fabry-Pérot Resonator for Application as a Reference Cavity for Laser Frequency Stabilisation. <i>Latvian Journal of Physics and Technical Sciences</i> , 2015 , 52, 21-33	0.5	2
10	Semiconductor laser with the subhertz linewidth. <i>Quantum Electronics</i> , 2008 , 38, 895-902	1.8	2
9	Development of optical WGM resonators for biosensors 2017 ,		2
8	Quality Factor Measurements for PMMA WGM Microsphere Resonators Using Fixed Wavelength Laser and Temperature Changes 2019 ,		2

7	Optical Frequency Combs Generated in Silica Microspheres in the Telecommunication C-, U-, and E-Bands. <i>Photonics</i> , 2021 , 8, 345	2.2	2
6	Testing the Stability of the Fine Structure Constant in the Laboratory. <i>Space Science Reviews</i> , 2009 , 148, 267-288	7.5	1
5	Violet Diode Laser in Time-Resolved Stored-Ion Spectroscopy. <i>Physica Scripta</i> , 2004 , 69, 98-103	2.6	1
4	Whispering gallery mode resonators coated with Au nanoparticles 2019 ,		1
3	Broadband Fabry-Pérot Resonator From Zerodur for Laser Stabilisation Below 1KHZ Linewidth With Latvian Journal of Physics and Technical Sciences, 2015 , 52, 11-20	0.5	1
2	Whispering Gallery Mode Resonator Temperature Compensation and Refractive Index Sensing in Glucose Droplets. <i>Sensors</i> , 2021 , 21,	3.8	1
1	Silica Microsphere WGMR-Based Kerr-OFC Light Source and Its Application for High-Speed IM/DD Short-Reach Optical Interconnects. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 4722	2.6	0