Alexandr Chernyshov

List of Publications by Year
in descending order

28	172	1478505 6	1125743 13
papers	citations	h-index	g-index

28	28	28	77
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Measurement of pressure shift and broadening coefficients for Ne 3s[3/2]2â†'3p[5/2]3 transition in Ne and He using diode-laser absorption spectroscopy. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 258, 107368.	2.3	1
2	Study of Ne:He Plasma of a Periodically Pulsed Discharge for Optically Pumped Rare Gas Laser. Journal of Physics: Conference Series, 2021, 2067, 012014.	0.4	2
3	Measurement of pressure shift and broadening for Ar and Kr 4s[3/2]2â€¯â†'â€¯4p[5/2]3 transition in rare gases using diode-laser spectroscopy. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 222-223, 84-88.	2.3	13
4	Transversely optically pumped Ar:He laser with a pulsed-periodic discharge. Optics Express, 2019, 27, 38759.	3.4	19
5	Thermometry in a Gas Discharge Cell of an Optical Wavelength Calibrator. Bulletin of the Lebedev Physics Institute, 2018, 45, 295-298.	0.6	1
6	Pressure shift coefficient measurements in an RF discharge for Ar 4s[3/2]₂â€"5p[3/2]₃ transition with the help of diodelaser absorption spectroscopy. Journal of Physics: Conference Series, 2018, 999, 012010.	0.4	0
7	Diode Laser with External Double Reflector for Gas Analysis. Bulletin of the Lebedev Physics Institute, 2018, 45, 83-86.	0.6	3
8	A Wavelength Calibrator for the 0.6â€"1.4 Î¼m Band Based on Fluorescent-lamp Starters. Instruments and Experimental Techniques, 2018, 61, 153-156.	0.5	3
9	The measurement of argon metastable atoms in the barrier discharge plasma. , 2018, , .		1
10	Pressure broadening coefficients for the 811.5 nm Ar line and 811.3 nm Kr line in rare gases. Proceedings of SPIE, 2017, , .	0.8	1
11	Measurement of an ambient air leak by diode laser absorption spectroscopy. , 2016, , .		0
12	Pressure broadening of Ar (811.5 nm) by neon. , 2016, , .		0
13	Measurement of pressure broadening of the Kr absorption line at 811.3 nm with a diode laser. Proceedings of SPIE, 2016, , .	0.8	0
14	Tunable diode-laser spectroscopy (TDLS) of 811.5nm Ar line for Ar(4s[3/2]2) number density measurements in a 40MHz RF discharge. , 2015, , .		4
15	Gas Flow Visualization Using Laser-induced Fluorescence. Procedia Engineering, 2015, 106, 92-96.	1.2	1
16	Pressure broadening of Ar and Kr (n+1)s[3/2]2â†'(n+1)p[5/2]3 transition in the parent gases and in He. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 164, 1-7.	2.3	35
17	Efficient second harmonic generation of a diode laser using ring cavity with a KNbO3 Crystal. Physics of Wave Phenomena, 2011, 19, 244-250.	1.1	0
18	Tunable conversion of diode laser radiation into Hermiteâ€"Gaussian and Laguerreâ€"Gaussian modes. Bulletin of the Russian Academy of Sciences: Physics, 2011, 75, 1596-1600.	0.6	1

#	Article	IF	Citations
19	Diode-laser derivative spectroscopy without lock-in amplifier. Physics of Wave Phenomena, 2011, 19, 89-92.	1.1	8
20	Spectrum-tunable liquid-crystal polarization isolator for diode lasers. Instruments and Experimental Techniques, 2006, 49, 92-95.	0.5	3
21	Calibration of a Shackâ€“Hartmann sensor for absolute measurements of wavefronts. Applied Optics, 2005, 44, 6419.	2.1	53
22	The calibration of the spectroscopic diode laser sensor for the water vapour diagnostics at output of singlet oxygen generator for COIL. , 2005, 5773, 7.		0
23	<title>Shack-Hartmann wavefront control of laser beams for atom interferometers</title>. , 2004, , .		0
24	Improvement of the fractional uncertainty of a neutral-atom calcium optical frequency standard to 2ï¿½10 -14. Applied Physics B: Lasers and Optics, 2003, 76, 149-156.	2.2	20
25	Characterization and Spatial Matching of Laser Diode Beams. Journal of Russian Laser Research, 2002, 23, 132-147.	0.6	2
26	Influence of the wavefront curvature on the characteristics of a diode laser with an external cavity. Quantum Electronics, 1996, 26, 226-230.	1.0	0
27	Effect of astigmatism on the matching of a laser diode to an external cavity. Quantum Electronics, 1993, 23, 441-443.	1.0	0
28	Method of measuring the astigmatic distance of laser diodes. Journal of Soviet Laser Research, 1991, 12, 341-352.	0.2	1