

Alexandr Chernyshov

List of Publications by Year in descending order

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28
papers

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1478505

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28
all docs

28
docs citations

28
times ranked

77
citing authors

#	ARTICLE	IF	CITATIONS
1	Calibration of a Shack-Hartmann sensor for absolute measurements of wavefronts. Applied Optics, 2005, 44, 6419.	2.1	53
2	Pressure broadening of Ar and Kr $(n+1)s[3/2]2\hat{\uparrow}'(n+1)p[5/2]3$ transition in the parent gases and in He. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 164, 1-7.	2.3	35
3	Improvement of the fractional uncertainty of a neutral-atom calcium optical frequency standard to $2\hat{\imath}1/210^{-14}$. Applied Physics B: Lasers and Optics, 2003, 76, 149-156.	2.2	20
4	Transversely optically pumped Ar:He laser with a pulsed-periodic discharge. Optics Express, 2019, 27, 38759.	3.4	19
5	Measurement of pressure shift and broadening for Ar and Kr $4s[3/2]2\hat{\uparrow}'\hat{\uparrow}^-4p[5/2]3$ transition in rare gases using diode-laser spectroscopy. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 222-223, 84-88.	2.3	13
6	Diode-laser derivative spectroscopy without lock-in amplifier. Physics of Wave Phenomena, 2011, 19, 89-92.	1.1	8
7	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
8	Spectrum-tunable liquid-crystal polarization isolator for diode lasers. Instruments and Experimental Techniques, 2006, 49, 92-95.	0.5	3
9	Diode Laser with External Double Reflector for Gas Analysis. Bulletin of the Lebedev Physics Institute, 2018, 45, 83-86.	0.6	3
10	A Wavelength Calibrator for the $0.6\hat{\uparrow}1.4\hat{\imath}4\text{m}$ Band Based on Fluorescent-lamp Starters. Instruments and Experimental Techniques, 2018, 61, 153-156.	0.5	3
11	Characterization and Spatial Matching of Laser Diode Beams. Journal of Russian Laser Research, 2002, 23, 132-147.	0.6	2
12	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
13	Method of measuring the astigmatic distance of laser diodes. Journal of Soviet Laser Research, 1991, 12, 341-352.	0.2	1
14	Tunable conversion of diode laser radiation into Hermite-Gaussian and Laguerre-Gaussian modes. Bulletin of the Russian Academy of Sciences: Physics, 2011, 75, 1596-1600.	0.6	1
15	Gas Flow Visualization Using Laser-induced Fluorescence. Procedia Engineering, 2015, 106, 92-96.	1.2	1
16	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
17	Thermometry in a Gas Discharge Cell of an Optical Wavelength Calibrator. Bulletin of the Lebedev Physics Institute, 2018, 45, 295-298.	0.6	1
18	Measurement of pressure shift and broadening coefficients for Ne $3s[3/2]2\hat{\uparrow}'3p[5/2]3$ transition in Ne and He using diode-laser absorption spectroscopy. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 258, 107368.	2.3	1

#	ARTICLE	IF	CITATIONS
19	The measurement of argon metastable atoms in the barrier discharge plasma. , 2018, , .		1
20	Effect of astigmatism on the matching of a laser diode to an external cavity. Quantum Electronics, 1993, 23, 441-443.	1.0	0
21	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
22	<title>Shack-Hartmann wavefront control of laser beams for atom interferometers</title>. , 2004, , .		0
23	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
24	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
25	Measurement of an ambient air leak by diode laser absorption spectroscopy. , 2016, , .		0
26	Pressure broadening of Ar (811.5 nm) by neon. , 2016, , .		0
27	Measurement of pressure broadening of the Kr absorption line at 811.3 nm with a diode laser. Proceedings of SPIE, 2016, , .	0.8	0
28	Pressure shift coefficient measurements in an RF discharge for Ar $4s[3/2]_{2} \rightarrow 5p[3/2]_{3}$ transition with the help of diodelaser absorption spectroscopy. Journal of Physics: Conference Series, 2018, 999, 012010.	0.4	0