Sergey Sadovnikov

List of Publications by Year
in descending order

35 papers	132 citations	1478505 6 h-index	1199594 12 g-index
35 all docs	35 docs citations	35 times ranked	58 citing authors

#	Article	IF	Citations
1	Development of Near/Mid IR differential absorption OPO lidar system for sensing of atmospheric gases. Optics and Laser Technology, 2019, 116, 43-47.	4.6	34
2	Remote Sensing of Atmospheric Methane with IR OPO Lidar System. Atmosphere, 2020, 11, 70.	2.3	23
3	Laser and Optical Sounding of the Atmosphere. Atmospheric and Oceanic Optics, 2020, 33, 51-68.	1.3	20
4	Remote Analysis of Methane Concentration in the Atmosphere with an IR Lidar System in the 3300–3430 nm Spectral Range. Atmospheric and Oceanic Optics, 2020, 33, 188-194.	1.3	12
5	Broadband IR Lidar for Gas Analysis of the Atmosphere. Journal of Applied Spectroscopy, 2018, 85, 457-461.	0.7	11
6	Study of the possibility of using a parametric-light-generator-based laser system for lidar probing of the composition of the atmosphere. Journal of Optical Technology (A Translation of Opticheskii Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 5		
7	Observations of Integral Formaldehyde Content in the Lower Troposphere in Urban Agglomerations of Moscow and Tomsk Using the Method of Differential Optical Absorption Spectroscopy. Atmospheric and Oceanic Optics, 2019, 32, 248-256.	1.3	5
8	Near/mid-IR OPO Lidar System for Gas Analysis of the Atmosphere: Simulation and Measurement Results. Optical Memory and Neural Networks (Information Optics), 2019, 28, 1-10.	1.0	5
9	Optical parametric oscillators in lidar sounding of trace atmospheric gases in the 3–4 μm spectral range. Optical Memory and Neural Networks (Information Optics), 2016, 25, 88-94.	1.0	4
10	Application of Optical Parametric Generator for Lidar Sensing of Minor Gas Components of the Atmosphere in 3–4 μm Spectral Range. Russian Physics Journal, 2016, 59, 380-386.	0.4	2
11	DIAL-DOAS technique for laser sounding of the gaseous composition of the atmosphere. , 2016, , .		2
12	Estimation of the Effect of Spectroscopic Information Accuracy on the Lidar Measurements of Methane with the Use of Expert Line Lists. Atmospheric and Oceanic Optics, 2020, 33, 415-418.	1.3	2
13	Calculation of lidar echo signals during N2O and NO2sounding alonge tropospheric paths in 3-4 μm range. , 2015, , .		1
14	OPO-laser system for atmospheric sounding in the mid-IR range. Proceedings of SPIE, 2015, , .	0.8	1
15	Opo lidar sounding of trace atmospheric gases in the 3 – 4 μm spectral range. EPJ Web of Conferences, 2018, 176, 05016.	0.3	1
16	Software system for numerical simulation of broadband laser gas analysis of the atmosphere. Informatsionno-Upravliaiushchie Sistemy, 2018, , 66-73.	0.4	1
17	Development of near/mid IR differential absorption OPO lidar system for remote gas analysis of the atmosphere. , 2019, , .		1
18	Mobile compact IR differential absorption lidar for research of methane in the atmoshpere. , 2020, , .		1

#	Article	IF	Citations
19	Informative wavelengths for trace atmospheric gas sounding with an opo-lidar in the 3-4 Î¼m spectral region. Proceedings of SPIE, 2015, , .	0.8	0
20	Optical parametric oscillators in lidar sounding of trace atmospheric gases in the mid infrared region. Proceedings of SPIE, 2015, , .	0.8	0
21	Siberian lidar station: instruments and results. , 2016, , .		0
22	OPO DIAL lidar for remote measurements of atmospheric gases in the IR range. Proceedings of SPIE, 2016, , .	0.8	0
23	Siberian lidar station: instruments and results. EPJ Web of Conferences, 2018, 176, 08020.	0.3	0
24	Optical parametric oscillator lidar for the gas constituents sensing in the spectral range of 3-4 Î¼m. , 2017, , .		0
25	Concept of a broadband near- and mid-IR lidar. , 2017, , .		0
26	Simulation of the remote atmospheric sounding by OPO lidar system in the near- and mid-IR. , 2018, , .		0
27	Experimental estimation of the efficiency of trace gas sounding in the mid-IR by the OPO lidar system. , 2018, , .		0
28	Software for numerical simulation of multicomponent gas analysis of the atmosphere. , 2018, , .		0
29	The influence of the accuracy of spectral line parameters of SO2 and NO2 in applications of atmospheric remote monitoring. , 2018, , .		0
30	Remote sensing of methane in the atmosphere by the OPO lidar system in 3.30â€"3.43 Î¼m spectral range. , 2019, , .		0
31	Measurement of methane content in the atmosphere by OPO lidar system. , 2019, , .		0
32	OPO lidar system for remote sensing of the atmosphere in the near/mid infrared region. , 2019, , .		0
33	Propagation of laser beams of average IR range wavelength in the atmosphere. , 2019, , .		0
34	Regularities of nanosecond laser filamentation in the visible and near IR range of waverange (532 and) Tj ETQq0 0 0 rgBT /Overlock 10 T		0
35	Processing of lidar data on trace atmospheric gases. , 2020, , .		0