

# Oleg V Postylyakov

## 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.

51  
papers

681  
citations

14  
h-index

25  
g-index

70  
ext. papers

839  
ext. citations

2.3  
avg, IF

3.59  
L-index

#	Paper	IF	Citations
51	Comparison of box-air-mass-factors and radiances for Multiple-Axis Differential Optical Absorption Spectroscopy (MAX-DOAS) geometries calculated from different UV/visible radiative transfer models. <i>Atmospheric Chemistry and Physics</i> , <b>2007</b> , 7, 1809-1833	6.8	135
50	Long-term MAX-DOAS network observations of NO <sub>2</sub> in Russia and Asia (MADRAS) during the period 2007-2012: instrumentation, elucidation of climatology, and comparisons with OMI satellite observations and global model simulations. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 7909-7927	6.8	64
49	Linearized vector radiative transfer model MCC++ for a spherical atmosphere. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2004</b> , 88, 297-317	2.1	47
48	Gaseous admixtures in the atmosphere over Moscow during the 2010 summer. <i>Izvestiya - Atmospheric and Oceanic Physics</i> , <b>2011</b> , 47, 672-681	1	46
47	Comparison of radiative transfer models for limb-viewing scattered sunlight measurements. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109, n/a-n/a		42
46	UBVR twilight sky brightness at ESO-Paranal. <i>Astronomy and Astrophysics</i> , <b>2006</b> , 455, 385-393	5.1	32
45	Observations of the ozone and nitrogen dioxide profiles in the TROICA-4 experiment. <i>Advances in Space Research</i> , <b>2006</b> , 37, 2231-2237	2.4	30
44	Intercomparison of NO <sub>2</sub> , O <sub>4</sub> , O <sub>3</sub> and HCHO slant column measurements by MAX-DOAS and zenith-sky UV-visible spectrometers during CINDI-2. <i>Atmospheric Measurement Techniques</i> , <b>2020</b> , 13, 2169-2208	4	30
43	Effects of multiple scattering and atmospheric aerosol on the polarization of the twilight sky. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2004</b> , 88, 233-241	2.1	25
42	Radiative transfer model MCC++ with evaluation of weighting functions in spherical atmosphere for use in retrieval algorithms. <i>Advances in Space Research</i> , <b>2004</b> , 34, 721-726	2.4	25
41	Gas composition of the surface air in Moscow during the extreme summer of 2010. <i>Doklady Earth Sciences</i> , <b>2011</b> , 437, 357-362	0.6	23
40	The Ozone and Aerosol Fine Structure experiment: Observing the fine structure of ozone and aerosol distribution in the atmosphere from the Salyut 7 Orbiter: 3. Experimental results. <i>Journal of Geophysical Research</i> , <b>1991</b> , 96, 18661		18
39	Investigating differences in DOAS retrieval codes using MAD-CAT campaign data. <i>Atmospheric Measurement Techniques</i> , <b>2017</b> , 10, 955-978	4	17
38	On the possibility of estimating the volume of NO <sub>2</sub> emissions in cities using zenith spectral observations of diffuse solar radiation near 450 nm. <i>Atmospheric and Oceanic Optics</i> , <b>2012</b> , 25, 434-439	0.8	17
37	Validation of tropospheric NO <sub>2</sub> column measurements of GOME-2A and OMI using MAX-DOAS and direct sun network observations. <i>Atmospheric Measurement Techniques</i> , <b>2020</b> , 13, 6141-6174	4	12
36	On cloud bottom boundary determination by digital stereo photography from the Earth's surface. <i>Atmospheric and Oceanic Optics</i> , <b>2017</b> , 30, 184-190	0.8	10
35	OZAFS space experiment for observing the fine structure of the ozone and aerosol distribution in the atmosphere. <i>Advances in Space Research</i> , <b>1992</b> , 12, 157-160	2.4	7

34	First experiment on retrieval of tropospheric NO <sub>2</sub> over polluted areas with 2.4-km spatial resolution basing on satellite spectral measurements <b>2017</b> ,		7
33	Inter-comparison of MAX-DOAS measurements of tropospheric HONO slant column densities and vertical profiles during the CINDI-2 campaign. <i>Atmospheric Measurement Techniques</i> , <b>2020</b> , 13, 5087-5114		7
32	Measurements of formaldehyde total content in troposphere using DOAS technique in Moscow Region: preliminary results of three year observations <b>2014</b> ,		6
31	Measurement of formaldehyde total content in troposphere using DOAS technique: improvements in version 1.3a of IAP retrieval algorithm <b>2016</b> ,		6
30	On determination of formaldehyde content in atmospheric boundary layer for overcast using DOAS technique <b>2015</b> ,		5
29	Study of different operational modes of the IAP 2-port-DOAS instrument for investigation of atmospheric trace gases during CINDI-2 campaign <b>2017</b> ,		5
28	First comparison of formaldehyde integral contents in ABL retrieved during clear-sky and overcast conditions by ZDOAS technique <b>2017</b> ,		5
27	Intercomparison of NO <sub>2</sub> , O <sub>4</sub> , O <sub>3</sub> and HCHO slant column measurements by MAX-DOAS and zenith-sky UV-Visible spectrometers during the CINDI-2 campaign		5
26	Stereoscopic ground-based determination of the cloud base height: camera position adjusting with account for lens distortion <b>2016</b> ,		4
25	Measurements of formaldehyde total content using DOAS technique: a new retrieval method for overcast <b>2014</b> ,		4
24	Formaldehyde integral content in troposphere of Moscow region: preliminary results of 6 years of measurements using DOAS technique <b>2016</b> ,		4
23	Study of different operational modes of the IAP 2-port-DOAS instrument for atmospheric trace gases investigation during CINDI-2 campaign basing on residual noise analysis <b>2017</b> ,		4
22	Application of Atmospheric Chemical Transport Models to Validation of Pollutant Emissions in Moscow. <i>Atmospheric and Oceanic Optics</i> , <b>2020</b> , 33, 362-371	0.8	4
21	Study of transport of atmospheric admixtures and temperature anomalies using trajectory methods at the A.M. Obukhov Institute of Atmospheric Physics. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2019</b> , 231, 012048	0.3	3
20	Measurements of formaldehyde total content in troposphere using DOAS technique in Moscow Region <b>2015</b> ,		3
19	Selection of optical model of stereophotography experiment for determination the cloud base height as a problem of testing of statistical hypotheses <b>2017</b> ,		3
18	Validation of tropospheric NO <sub>2</sub> column measurements of GOME-2A and OMI using MAX-DOAS and direct sun network observations		3
17	Observations of Integral Formaldehyde Content in the Lower Troposphere in Urban Agglomerations of Moscow and Tomsk Using the Method of Differential Optical Absorption Spectroscopy. <i>Atmospheric and Oceanic Optics</i> , <b>2019</b> , 32, 248-256	0.8	2

16	Stereoscopic ground-based determination of the cloud base height: theory of camera position calibration with account for lens distortion <b>2016</b> ,		2
15	Estimation of cloud base height using ground-based stereo photography: method and first results <b>2014</b> ,		2
14	The Ozone and Aerosol Fine Structure experiment: Observing the fine structure of ozone and aerosol distribution in the atmosphere from the Salyut 7 Orbiter: 2. Formation of the Earth's twilight limb coloration and radiance: Numerical calculations. <i>Journal of Geophysical Research</i> , <b>1991</b> , 96, 18655		2
13	On estimation of cloud characteristics from spectral measurements of scattered solar radiation using a neural network <b>2019</b> ,		2
12	Implementing the Model/View architecture in software of Brewer Network Spectrophotometer for long-term monitoring of UV radiation and ozone atmospheric content. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2019</b> , 231, 012045	0.3	1
11	Modeling of effect of polarization on UV sky radiance during twilight. <i>Advances in Space Research</i> , <b>2005</b> , 35, 465-469	2.4	1
10	A layout of two-port DOAS system for investigation of atmospheric trace gases based on laboratory spectrograph <b>2016</b> ,		1
9	Potential sources of reactive gases for the West of Moscow Oblast <b>2018</b> ,		1
8	Potential sources of tropospheric nitrogen dioxide for Western Moscow Region, Russia <b>2018</b> ,		1
7	Cross-platform software to continue long-term observations with the Brewer spectrophotometer in the face of changing computer platforms: implementing the Model-View architecture <b>2018</b> ,		1
6	On development of cross-platform software to continue long-term observations with the Brewer Ozone Spectrophotometer <b>2018</b> ,		1
5	Preliminary validation of high-detailed GSA/Resurs-P tropospheric NO <sub>2</sub> maps with alternative satellite measurements and transport simulations <b>2019</b> ,		1
4	Comparison of measured and simulated by SILAM NO <sub>2</sub> integral content in atmospheric boundary layer in Moscow region <b>2019</b> ,		1
3	Effects of aerosol phase function and other atmospheric parameters in radiometric calibration of hyperspectral visible/NIR satellite instruments above test sites of different altitudes <b>2017</b> ,		1
2	Comparison of measured and simulated NO <sub>2</sub> integral content in the lower troposphere in Moscow region. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2020</b> , 489, 012035	0.3	0
1	On estimation of cloudiness characteristics and parameters of DOAS retrieval from spectral measurements using a neural network. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2020</b> , 489, 012031	0.3	