Oleg V Postylyakov

List of Publications by Year in Descending Order

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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	On estimation of cloudiness characteristics and parameters of DOAS retrieval from spectral measurements using a neural network. *IOP Conference Series: Earth and Environmental Science*, **2020**, 489, 012031	0.3	
50	Intercomparison of NO₂, O₄, O₃ and HCHO slant column measurements by MAX-DOAS and zenith-sky UV□isible spectrometers during CINDI-2. *Atmospheric Measurement Techniques*, **2020**, 13, 2169-2208	4	30
49	Inter-comparison of MAX-DOAS measurements of tropospheric HONO slant column densities and vertical profiles during the CINDI-2 campaign. *Atmospheric Measurement Techniques*, **2020**, 13, 5087-5116	4	7
48	Validation of tropospheric NO₂ column measurements of GOME-2A and OMI using MAX-DOAS and direct sun network observations. *Atmospheric Measurement Techniques*, **2020**, 13, 6141-6174	4	12
47	Comparison of measured and simulated NO2 integral content in the lower troposphere in Moscow region. *IOP Conference Series: Earth and Environmental Science*, **2020**, 489, 012035	0.3	0
46	Application of Atmospheric Chemical Transport Models to Validation of Pollutant Emissions in Moscow. *Atmospheric and Oceanic Optics*, **2020**, 33, 362-371	0.8	4
45	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	0.8	2
44	Study of transport of atmospheric admixtures and temperature anomalies using trajectory methods at the A.M. Obukhov Institute of Atmospheric Physics. *IOP Conference Series: Earth and Environmental Science*, **2019**, 231, 012048	0.3	3
43	Implementing the Model/View architecture in software of Brewer Network Spectrophotometer for long-term monitoring of UV radiation and ozone atmospheric content. *IOP Conference Series: Earth and Environmental Science*, **2019**, 231, 012045	0.3	1
42	Preliminary validation of high-detailed GSA/Resurs-P tropospheric NO2 maps with alternative satellite measurements and transport simulations **2019**,		1
41	On estimation of cloud characteristics from spectral measurements of scattered solar radiation using a neural network **2019**,		2
40	Comparison of measured and simulated by SILAM NO2 integral content in atmospheric boundary layer in Moscow region **2019**,		1
39	Potential sources of reactive gases for the West of Moscow Oblast **2018**,		1
38	Potential sources of tropospheric nitrogen dioxide for Western Moscow Region, Russia **2018**,		1
37	Cross-platform software to continue long-term observations with the Brewer spectrophotometer in the face of changing computer platforms: implementing the Model-View architecture **2018**,		1
36	On development of cross-platform software to continue long-term observations with the Brewer Ozone Spectrophotometer **2018**,		1
35	On cloud bottom boundary determination by digital stereo photography from the Earth□ surface. *Atmospheric and Oceanic Optics*, **2017**, 30, 184-190	0.8	10

34	Investigating differences in DOAS retrieval codes using MAD-CAT campaign data. *Atmospheric Measurement Techniques*, **2017**, 10, 955-978	4	17
33	Study of different operational modes of the IAP 2-port-DOAS instrument for investigation of atmospheric trace gases during CINDI-2 campaign **2017**,		5
32	First comparison of formaldehyde integral contents in ABL retrieved during clear-sky and overcast conditions by ZDOAS technique **2017**,		5
31	Selection of optical model of stereophotography experiment for determination the cloud base height as a problem of testing of statistical hypotheses **2017**,		3
30	First experiment on retrieval of tropospheric NO2 over polluted areas with 2.4-km spatial resolution basing on satellite spectral measurements **2017**,		7
29	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 **2017**,		4
28	Effects of aerosol phase function and other atmospheric parameters in radiometric calibration of hyperspectral visible/NIR satellite instruments above test sites of different altitudes **2017**,		1
27	Stereoscopic ground-based determination of the cloud base height: camera position adjusting with account for lens distortion **2016**,		4
26	Stereoscopic ground-based determination of the cloud base height: theory of camera position calibration with account for lens distortion **2016**,		2
25	Formaldehyde integral content in troposphere of Moscow region: preliminary results of 6 years of measurements using DOAS technique **2016**,		4
24	A layout of two-port DOAS system for investigation of atmospheric trace gases based on laboratory spectrograph **2016**,		1
23	Measurement of formaldehyde total content in troposphere using DOAS technique: improvements in version 1.3a of IAP retrieval algorithm **2016**,		6
22	On determination of formaldehyde content in atmospheric boundary layer for overcast using DOAS technique **2015**,		5
21	Measurements of formaldehyde total content in troposphere using DOAS technique in Moscow Region **2015**,		3
20	Measurements of formaldehyde total content using DOAS technique: a new retrieval method for overcast **2014**,		4
19	Measurements of formaldehyde total content in troposphere using DOAS technique in Moscow Region: preliminary results of three year observations **2014**,		6
18	Estimation of cloud base height using ground-based stereo photography: method and first results **2014**,		2
17	Long-term MAX-DOAS network observations of NO₂ in Russia and Asia (MADRAS) during the period 2007–2012: instrumentation, elucidation of climatology, and comparisons with OMI satellite observations and global model simulations. *Atmospheric Chemistry and Physics*, **2014**, 14, 7909-7927	6.8	64

16	On the possibility of estimating the volume of NO2 emissions in cities using zenith spectral observations of diffuse solar radiation near 450 nm. *Atmospheric and Oceanic Optics*, **2012**, 25, 434-439	0.8	17
15	Gaseous admixtures in the atmosphere over Moscow during the 2010 summer. *Izvestiya - Atmospheric and Oceanic Physics*, **2011**, 47, 672-681	1	46
14	Gas composition of the surface air in Moscow during the extreme summer of 2010. *Doklady Earth Sciences*, **2011**, 437, 357-362	0.6	23
13	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. *Atmospheric Chemistry and Physics*, **2007**, 7, 1809-1833	6.8	135
12	UBVRItwilight sky brightness at ESO-Paranal. *Astronomy and Astrophysics*, **2006**, 455, 385-393	5.1	32
11	Observations of the ozone and nitrogen dioxide profiles in the TROICA-4 experiment. *Advances in Space Research*, **2006**, 37, 2231-2237	2.4	30
10	Modeling of effect of polarization on UV sky radiance during twilight. *Advances in Space Research*, **2005**, 35, 465-469	2.4	1
9	Effects of multiple scattering and atmospheric aerosol on the polarization of the twilight sky. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2004**, 88, 233-241	2.1	25
8	Linearized vector radiative transfer model MCC++ for a spherical atmosphere. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2004**, 88, 297-317	2.1	47
7	Radiative transfer model MCC++ with evaluation of weighting functions in spherical atmosphere for use in retrieval algorithms. *Advances in Space Research*, **2004**, 34, 721-726	2.4	25
6	Comparison of radiative transfer models for limb-viewing scattered sunlight measurements. *Journal of Geophysical Research*, **2004**, 109, n/a-n/a		42
5	OZAFS space experiment for observing the fine structure of the ozone and aerosol distribution in the atmosphere. *Advances in Space Research*, **1992**, 12, 157-160	2.4	7
4	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. *Journal of Geophysical Research*, **1991**, 96, 18655		2
3	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. *Journal of Geophysical Research*, **1991**, 96, 18661		18
2	Intercomparison of NO₂, O₄, O₃ and HCHO slant column measurements by MAX-DOAS and zenith-sky UV-Visible spectrometers during the CINDI-2 campaign		5
1	Validation of tropospheric NO₂ column measurements of GOME-2A and OMI using MAX-DOAS and direct sun network observations		3