

# Olga Kalashnikova

## List of Publications by Year in descending order

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88  
papers

3,869  
citations

136740

32  
h-index

138251

58  
g-index

99  
all docs

99  
docs citations

99  
times ranked

4638  
citing authors

#	ARTICLE	IF	CITATIONS
1	Inferring iron-oxide species content in atmospheric mineral dust from DSCOVR EPIC observations. Atmospheric Chemistry and Physics, 2022, 22, 1395-1423.	1.9	13
2	Simultaneous Characterization of Wildfire Smoke and Surface Properties With Imaging Spectroscopy During the FIREX-AQ Field Campaign. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	1.2	4
3	Aerosol profiling using radiometric and polarimetric spectral measurements in the O2 near infrared bands: Estimation of information content and measurement uncertainties. Remote Sensing of Environment, 2021, 253, 112179.	4.6	5
4	A global analysis of diurnal variability in dust and dust mixture using CATS observations. Atmospheric Chemistry and Physics, 2021, 21, 1427-1447.	1.9	19
5	Quantifying the range of the dust direct radiative effect due to source mineralogy uncertainty. Atmospheric Chemistry and Physics, 2021, 21, 3973-4005.	1.9	47
6	The Spectral Nature of Earth's Reflected Radiation: Measurement and Science Applications. Frontiers in Remote Sensing, 2021, 2, .	1.3	7
7	Analysis of simultaneous aerosol and ocean glint retrieval using multi-angle observations. Atmospheric Measurement Techniques, 2021, 14, 3233-3252.	1.2	6
8	Aerosol characteristics from earth observation systems: A comprehensive investigation over South Asia (2000-2019). Remote Sensing of Environment, 2021, 259, 112410.	4.6	60
9	Effects of COVID-19 lockdowns on fine particulate matter concentrations. Science Advances, 2021, 7, .	4.7	53
10	Polarimetric sensitivity of light-absorbing carbonaceous aerosols over ocean: A theoretical assessment. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 272, 107759.	1.1	2
11	Temporal and Spatial Autocorrelation as Determinants of Regional AOD-PM2.5 Model Performance in the Middle East. Remote Sensing, 2021, 13, 3790.	1.8	5
12	Monthly Global Estimates of Fine Particulate Matter and Their Uncertainty. Environmental Science & Technology, 2021, 55, 15287-15300.	4.6	211
13	The Earth Surface Mineral Dust Source Investigation: An Earth Science Imaging Spectroscopy Mission. , 2020, , .		26
14	Introducing the 4.4-km spatial resolution Multi-Angle Imaging SpectroRadiometer (MISR) aerosol product. Atmospheric Measurement Techniques, 2020, 13, 593-628.	1.2	84
15	Global Estimates and Long-Term Trends of Fine Particulate Matter Concentrations (1998-2018). Environmental Science & Technology, 2020, 54, 7879-7890.	4.6	431
16	Spatiotemporal Characteristics of the Association between AOD and PM over the California Central Valley. Remote Sensing, 2020, 12, 685.	1.8	8
17	COVID-19 severity and mortality in patients with chronic lymphocytic leukemia: a joint study by ERIC, the European Research Initiative on CLL, and CLL Campus. Leukemia, 2020, 34, 2354-2363.	3.3	198
18	Disproving the Biological Depression as the Primary Source of Dust Fertilizing the Amazon Rainforest. Geophysical Research Letters, 2020, 47, e2020GL088020.	1.5	21

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19	Evaluation of sea salt aerosols in climate systems: global climate modeling and observation-based analyses*. Environmental Research Letters, 2020, 15, 034047.	2.2	7
20	The Aerosol Characterization from Polarimeter and Lidar (ACEPOL) airborne field campaign. Earth System Science Data, 2020, 12, 2183-2208.	3.7	10
21	Comparing Bayesian and traditional end-member mixing approaches for hydrograph separation in a glacierized basin. Hydrology and Earth System Sciences, 2020, 24, 3289-3309.	1.9	18
22	Synergistic Use of Remote Sensing and Modeling for Estimating Net Primary Productivity in the Red Sea With VGPM, Eppley-VGPM, and CbPM Models Intercomparison. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 8717-8734.	2.7	8
23	Going Beyond Standard Ocean Color Observations: Lidar and Polarimetry. Frontiers in Marine Science, 2019, 6, .	1.2	80
24	Atmospheric Correction of Satellite Ocean-Color Imagery During the PACE Era. Frontiers in Earth Science, 2019, 7, .	0.8	98
25	Retrieving Aerosol Characteristics From the PACE Mission, Part 2: Multi-Angle and Polarimetry. Frontiers in Environmental Science, 2019, 7, .	1.5	37
26	Estimates of African Dust Deposition Along the Transatlantic Transit Using the Decadelong Record of Aerosol Measurements from CALIOP, MODIS, MISR, and IASI. Journal of Geophysical Research D: Atmospheres, 2019, 124, 7975-7996.	1.2	68
27	Quantification of Ammonia Emissions With High Spatial Resolution Thermal Infrared Observations From the Hyperspectral Thermal Emission Spectrometer (HyTES) Airborne Instrument. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 4798-4812.	2.3	2
28	Retrieving Aerosol Characteristics From the PACE Mission, Part 1: Ocean Color Instrument. Frontiers in Earth Science, 2019, 7, .	0.8	31
29	Aerosol Layer Height over Water via Oxygen A-Band Observations from Space: A Tutorial. Springer Series in Light Scattering, 2019, , 133-166.	1.8	5
30	Quantifying the direct radiative effect of absorbing aerosols for numerical weather prediction: a case study. Atmospheric Chemistry and Physics, 2019, 19, 205-218.	1.9	5
31	Constraining hydrological model parameters using water isotopic compositions in a glacierized basin, Central Asia. Journal of Hydrology, 2019, 571, 332-348.	2.3	31
32	Climatology of Asian dust activation and transport potential based on MISR satellite observations and trajectory analysis. Atmospheric Chemistry and Physics, 2019, 19, 363-378.	1.9	50
33	Photopolarimetric Sensitivity to Black Carbon Content of Wildfire Smoke: Results From the 2016 ImPACT-PM Field Campaign. Journal of Geophysical Research D: Atmospheres, 2018, 123, 5376-5396.	1.2	15
34	Characterization of Wildfire-Induced Aerosol Emissions From the Maritime Continent Peatland and Central African Dry Savannah with MISR and CALIPSO Aerosol Products. Journal of Geophysical Research D: Atmospheres, 2018, 123, 3116-3125.	1.2	16
35	The Value of Hydrograph Partitioning Curves for Calibrating Hydrological Models in Glacierized Basins. Water Resources Research, 2018, 54, 2336-2361.	1.7	19
36	Characterizing the Impact of Aerosols on Pre-Hurricane Sandy. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 1378-1386.	2.3	3

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37	Estimating PM <sub>2.5</sub> speciation concentrations using prototype 4.4-km-resolution MISR aerosol properties over Southern California. <i>Atmospheric Environment</i> , 2018, 181, 70-81.	1.9	38
38	How Long should the MISR Record Be when Evaluating Aerosol Optical Depth Climatology in Climate Models?. <i>Remote Sensing</i> , 2018, 10, 1326.	1.8	11
39	Mapping Speciated Ambient Particulate Matter Concentrations with the Multi-Angle Imager for Aerosols (MAIA). , 2018, , .		0
40	An Assessment of Atmospheric and Meteorological Factors Regulating Red Sea Phytoplankton Growth. <i>Remote Sensing</i> , 2018, 10, 673.	1.8	22
41	Using Multi-Angle Imaging SpectroRadiometer Aerosol Mixture Properties for Air Quality Assessment in Mongolia. <i>Remote Sensing</i> , 2018, 10, 1317.	1.8	19
42	Hyperspectral remote sensing of fire: State-of-the-art and future perspectives. <i>Remote Sensing of Environment</i> , 2018, 216, 105-121.	4.6	100
43	Characterization of Subgrid-Scale Variability in Particulate Matter with Respect to Satellite Aerosol Observations. <i>Remote Sensing</i> , 2018, 10, 623.	1.8	8
44	Identification and Characterization of Dust Source Regions Across North Africa and the Middle East Using MISR Satellite Observations. <i>Geophysical Research Letters</i> , 2018, 45, 6690-6701.	1.5	65
45	Coupled retrieval of aerosol properties and land surface reflection using the Airborne Multiangle SpectroPolarimetric Imager. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 7004-7026.	1.2	63
46	Size-resolved particulate matter concentrations derived from 4.4 km-resolution size-fractionated Multi-angle Imaging SpectroRadiometer (MISR) aerosol optical depth over Southern California. <i>Remote Sensing of Environment</i> , 2017, 196, 312-323.	4.6	34
47	Development and assessment of a higher-spatial-resolution (4.4-km) MISR aerosol optical depth product using AERONET-DRAGON data. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 5095-5106.	1.9	62
48	WRF-Chem simulation of aerosol seasonal variability in the San Joaquin Valley. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 7291-7309.	1.9	15
49	Attributing Accelerated Summertime Warming in the Southeast United States to Recent Reductions in Aerosol Burden: Indications from Vertically-Resolved Observations. <i>Remote Sensing</i> , 2017, 9, 674.	1.8	31
50	Synergistic Use of Remote Sensing and Modeling to Assess an Anomalously High Chlorophyll-a Event during Summer 2015 in the South Central Red Sea. <i>Remote Sensing</i> , 2017, 9, 778.	1.8	19
51	Joint retrieval of aerosol and water-leaving radiance from multispectral, multiangular and polarimetric measurements over ocean. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 2877-2907.	1.2	69
52	Trans-Pacific transport and evolution of aerosols: evaluation of quasi-global WRF-Chem simulation with multiple observations. <i>Geoscientific Model Development</i> , 2016, 9, 1725-1746.	1.3	62
53	MODSNOW-Tool: an operational tool for daily snow cover monitoring using MODIS data. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	22
54	Climatology of the aerosol optical depth by components from the Multi-angle Imaging SpectroRadiometer (MISR) and chemistry transport models. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 6627-6640.	1.9	17

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55	Climatology of summer Shamal wind in the Middle East. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 289-305.	1.2	147
56	Humanâ€caused fires limit convection in tropical Africa: First temporal observations and attribution. <i>Geophysical Research Letters</i> , 2015, 42, 6492-6501.	1.5	30
57	Regime shift in Arabian dust activity, triggered by persistent Fertile Crescent drought. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 10,229.	1.2	115
58	The effects of ENSO under negative AO phase on spring dust activity over northern China: an observational investigation. <i>International Journal of Climatology</i> , 2015, 35, 935-947.	1.5	21
59	Saharan dust as a causal factor of hemispheric asymmetry in aerosols and cloud cover over the tropical Atlantic Ocean. <i>International Journal of Remote Sensing</i> , 2015, 36, 3423-3445.	1.3	15
60	Improving decision-making activities for meningitis and malaria. <i>Geocarto International</i> , 2014, 29, 19-38.	1.7	4
61	Observational evidence of fire-driven reduction of cloud fraction in tropical Africa. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 8418-8432.	1.2	22
62	Intercomparison of satellite dust retrieval products over the west African Sahara during the Fennec campaign in June 2011. <i>Remote Sensing of Environment</i> , 2013, 136, 99-116.	4.6	52
63	Tropical Atlantic dust and smoke aerosol variations related to the Maddenâ€Julian Oscillation in MODIS and MISR observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 4947-4963.	1.2	30
64	Airborne multiangle spectropolarimetric imager (AirMSPI) observations over California during NASA's polarimeter definition experiment (PODEX). <i>Proceedings of SPIE</i> , 2013, , .	0.8	7
65	MISR Dark Water aerosol retrievals: operational algorithm sensitivity to particle non-sphericity. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 2131-2154.	1.2	45
66	Assessing temporal and spatial variations in atmospheric dust over Saudi Arabia through satellite, radiometric, and station data. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 13,253.	1.2	70
67	Characterization of atmospheric aerosol in the US Southeast from ground- and space-based measurements over the past decade. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 1667-1682.	1.2	25
68	Intercomparison of desert dust optical depth from satellite measurements. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 1973-2002.	1.2	37
69	CALIPSO observations of transatlantic dust: vertical stratification and effect of clouds. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 11339-11354.	1.9	45
70	Sensitivity of multi-angle photo-polarimetry to vertical layering and mixing of absorbing aerosols: Quantifying measurement uncertainties. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011, 112, 2149-2163.	1.1	22
71	A sensitivity study on the effects of particle chemistry, asphericity and size on the mass extinction efficiency of mineral dust in the earth's atmosphere: from the near to thermal IR. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 1527-1547.	1.9	38
72	Capabilities and limitations of MISR aerosol products in dust-laden regions. <i>Proceedings of SPIE</i> , 2011, , .	0.8	3

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73	Aerosol optical thickness trends and population growth in the Indian subcontinent. International Journal of Remote Sensing, 2011, 32, 9137-9149.	1.3	24
74	Ten years of MISR observations from Terra: Looking back, ahead, and in between. , 2010, , .		3
75	Variations of meridional aerosol distribution and solar dimming. Journal of Geophysical Research, 2009, 114, .	3.3	20
76	Mineral dust plume evolution over the Atlantic from MISR and MODIS aerosol retrievals. Journal of Geophysical Research, 2008, 113, .	3.3	86
77	Application of satellite and ground-based data to investigate the UV radiative effects of Australian aerosols. Remote Sensing of Environment, 2007, 107, 65-80.	4.6	28
78	Ability of multiangle remote sensing observations to identify and distinguish mineral dust types: 2. Sensitivity over dark water. Journal of Geophysical Research, 2006, 111, .	3.3	78
79	The effects of smoke and dust aerosols on UV-B radiation in Australia from ground-based and satellite measurements. , 2005, , .		0
80	Ability of multiangle remote sensing observations to identify and distinguish mineral dust types: Optical models and retrievals of optically thick plumes. Journal of Geophysical Research, 2005, 110, .	3.3	140
81	Modeling the radiative properties of nonspherical soil-derived mineral aerosols. Journal of Quantitative Spectroscopy and Radiative Transfer, 2004, 87, 137-166.	1.1	138
82	Environmental snapshots from ACE-Asia. Journal of Geophysical Research, 2004, 109, .	3.3	42
83	Dust aerosol retrieval results from MISR. , 2004, , .		1
84	Refinements to MISR's radiometric calibration and implications for establishing a climate-quality aerosol observing system. , 2004, 5652, 57.		10
85	<title>Wavelength and altitude dependence of laser beam propagation in dense fog</title>. , 2002, , .		10
86	Free-space optics system operation in Asian cities under heavy dust loading conditions. , 2002, , .		0
87	Importance of shapes and compositions of wind-blown dust particles for remote sensing at solar wavelengths. Geophysical Research Letters, 2002, 29, 38-1-38-4.	1.5	122
88	Meteoric smoke production in the atmosphere. Geophysical Research Letters, 2000, 27, 3293-3296.	1.5	65