

Evgueni I Kassianov

List of Publications by Citations

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49
papers

1,087
citations

17
h-index

32
g-index

67
ext. papers

1,212
ext. citations

3.6
avg, IF

3.85
L-index

| # | Paper | IF | Citations |
|----|---|-----|-----------|
| 49 | THE I3RC: Bringing Together the Most Advanced Radiative Transfer Tools for Cloudy Atmospheres. <i>Bulletin of the American Meteorological Society</i> , 2005 , 86, 1275-1294 | 6.1 | 157 |
| 48 | Aerosol indirect effects in a multi-scale aerosol-climate model PNNL-MMF. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 5431-5455 | 6.8 | 123 |
| 47 | The multi-scale aerosol-climate model PNNL-MMF: model description and evaluation. <i>Geoscientific Model Development</i> , 2011 , 4, 137-168 | 6.3 | 83 |
| 46 | Overview of the 2010 Carbonaceous Aerosols and Radiative Effects Study (CARES). <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 7647-7687 | 6.8 | 79 |
| 45 | Cloud Sky Cover versus Cloud Fraction: Whole-Sky Simulations and Observations. <i>Journal of Applied Meteorology and Climatology</i> , 2005 , 44, 86-98 | | 78 |
| 44 | Temporal Variability of Fair-Weather Cumulus Statistics at the ACRF SGP Site. <i>Journal of Climate</i> , 2008 , 21, 3344-3358 | 4.4 | 67 |
| 43 | Cloud-Base-Height Estimation from Paired Ground-Based Hemispherical Observations. <i>Journal of Applied Meteorology and Climatology</i> , 2005 , 44, 1221-1233 | | 56 |
| 42 | Surface summertime radiative forcing by shallow cumuli at the Atmospheric Radiation Measurement Southern Great Plains site. <i>Journal of Geophysical Research</i> , 2011 , 116, | | 46 |
| 41 | Evaluation of a Modified Scheme for Shallow Convection: Implementation of CuP and Case Studies. <i>Monthly Weather Review</i> , 2013 , 141, 134-147 | 2.4 | 39 |
| 40 | Overview of observations from the RADAGAST experiment in Niamey, Niger: Meteorology and thermodynamic variables. <i>Journal of Geophysical Research</i> , 2008 , 113, | | 36 |
| 39 | Retrieval of aerosol microphysical properties using surface MultiFilter Rotating Shadowband Radiometer (MFRSR) data: Modeling and observations. <i>Journal of Geophysical Research</i> , 2005 , 110, | | 31 |
| 38 | On reflectance ratios and aerosol optical depth retrieval in the presence of cumulus clouds. <i>Geophysical Research Letters</i> , 2008 , 35, | 4.9 | 28 |
| 37 | Stochastic radiative transfer in multilayer broken clouds. Part I: Markovian approach. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2003 , 77, 373-393 | 2.1 | 26 |
| 36 | The Two-Column Aerosol Project: Phase I Overview and impact of elevated aerosol layers on aerosol optical depth. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 336-361 | 4.4 | 22 |
| 35 | Seasonal contrast in the surface energy balance of the Sahel. <i>Journal of Geophysical Research</i> , 2009 , 114, | | 20 |
| 34 | Aerosols in central California: Unexpectedly large contribution of coarse mode to aerosol radiative forcing. <i>Geophysical Research Letters</i> , 2012 , 39, | 4.9 | 18 |
| 33 | Retrieval of aerosol optical depth in vicinity of broken clouds from reflectance ratios: Sensitivity study. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2009 , 110, 1677-1689 | 2.1 | 18 |

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| 32 | Do diurnal aerosol changes affect daily average radiative forcing?. <i>Geophysical Research Letters</i> , 2013 , 40, 3265-3269 | 4.9 | 17 |
| 31 | Simultaneous retrieval of effective refractive index and density from size distribution and light-scattering data: weakly absorbing aerosol. <i>Atmospheric Measurement Techniques</i> , 2014 , 7, 3247-3264 | 4 | 17 |
| 30 | Airborne Aerosol in Situ Measurements during TCAP: A Closure Study of Total Scattering. <i>Atmosphere</i> , 2015 , 6, 1069-1101 | 2.7 | 14 |
| 29 | Shortwave spectral radiative forcing of cumulus clouds from surface observations. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a | 4.9 | 12 |
| 28 | Stochastic radiative transfer in Markovian mixtures: Past, present, and future. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011 , 112, 566-576 | 2.1 | 12 |
| 27 | Retrieval of aerosol optical depth in vicinity of broken clouds from reflectance ratios: case study. <i>Atmospheric Measurement Techniques</i> , 2010 , 3, 1333-1349 | 4 | 10 |
| 26 | Satellite multiangle cumulus geometry retrieval: Case study. <i>Journal of Geophysical Research</i> , 2003 , 108, n/a-n/a | | 10 |
| 25 | The role of cloud-scale resolution on radiative properties of oceanic cumulus clouds. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2005 , 91, 211-226 | 2.1 | 9 |
| 24 | Areal-Averaged Spectral Surface Albedo from Ground-Based Transmission Data Alone: Toward an Operational Retrieval. <i>Atmosphere</i> , 2014 , 5, 597-621 | 2.7 | 8 |
| 23 | Stochastic radiative transfer in multilayer broken clouds. Part II: validation tests. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2003 , 77, 395-416 | 2.1 | 8 |
| 22 | Fine-Scale Variability of Observed and Simulated Surface Albedo Over the Southern Great Plains. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD030559 | 4.4 | 5 |
| 21 | Initial Assessment of the Spectrometer for Sky-Scanning, Sun-Tracking Atmospheric Research (4STAR)-Based Aerosol Retrieval: Sensitivity Study. <i>Atmosphere</i> , 2012 , 3, 495-521 | 2.7 | 5 |
| 20 | Sky cover from MFRSR observations. <i>Atmospheric Measurement Techniques</i> , 2011 , 4, 1463-1470 | 4 | 5 |
| 19 | Cloud Area Distributions of Shallow Cumuli: A New Method for Ground-Based Images. <i>Atmosphere</i> , 2018 , 9, 258 | 2.7 | 5 |
| 18 | Large Contribution of Coarse Mode to Aerosol Microphysical and Optical Properties: Evidence from Ground-Based Observations of a Transpacific Dust Outbreak at a High-Elevation North American Site. <i>Journals of the Atmospheric Sciences</i> , 2017 , 74, 1431-1443 | 2.1 | 3 |
| 17 | A Closure Study of Total Scattering Using Airborne In Situ Measurements from the Winter Phase of TCAP. <i>Atmosphere</i> , 2018 , 9, 228 | 2.7 | 2 |
| 16 | Temporal variability of aerosol properties during TCAP: impact on radiative forcing 2013 , | | 2 |
| 15 | Failure and Redemption of Multifilter Rotating Shadowband Radiometer (MFRSR)/Normal Incidence Multifilter Radiometer (NIMFR) Cloud Screening: Contrasting Algorithm Performance at Atmospheric Radiation Measurement (ARM) North Slope of Alaska (NSA) and Southern Great Plains (SGP) Sites. <i>Atmosphere</i> , 2013 , 4, 299-314 | 2.7 | 2 |

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| 14 | The multi-scale aerosol-climate model PNNL-MMF: model description and evaluation 2010 , | | 2 |
| 13 | Sky cover from MFRSR observations: cumulus clouds 2011 , | | 2 |
| 12 | Three-dimensional radiative transfer makes its mark. <i>Eos</i> , 1999 , 80, 622-624 | 1.5 | 2 |
| 11 | Macrophysical properties of continental shallow cumuli: diurnal evolution 2019 , | | 2 |
| 10 | Aerosol retrievals under partly cloudy conditions: challenges and perspectives. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2011 , 205-232 | 0.3 | 2 |
| 9 | Shallow cumuli cover and its uncertainties from ground-based lidar/radar data and sky images. <i>Atmospheric Measurement Techniques</i> , 2020 , 13, 2099-2117 | 4 | 1 |
| 8 | Remote sensing of aerosol properties during CARES 2011 , | | 1 |
| 7 | Three-dimensional effects and shortwave cloud radiative forcing associated with shallow cumuli over the central North America 2009 , | | 1 |
| 6 | Aerosol Total Volume Estimation From Wavelength- and Size-Resolved Scattering Coefficient Data: A New Method. <i>Earth and Space Science</i> , 2020 , 7, e2019EA000863 | 3.1 | 1 |
| 5 | Estimation of Aerosol Columnar Size Distribution from Spectral Extinction Data in Coastal and Maritime Environment. <i>Atmosphere</i> , 2021 , 12, 1412 | 2.7 | 0 |
| 4 | Areal-Averaged Spectral Surface Albedo in an Atlantic Coastal Area: Estimation from Ground-Based Transmission. <i>Atmosphere</i> , 2017 , 8, 123 | 2.7 | |
| 3 | Mathematical Simulation of the Radiative Transfer in Statistically Inhomogeneous Clouds 2006 , 141-149 | | |
| 2 | Markovian approach and its applications in a cloudy atmosphere 2013 , 69-107 | | |
| 1 | Harmonized and high-quality datasets of aerosol optical depth at a US continental site, 1997-2018. <i>Scientific Data</i> , 2021 , 8, 82 | 8.2 | |