

# Alexei I Lyapustin

## 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.

192  
papers

9,504  
citations

54  
h-index

93  
g-index

228  
ext. papers

12,087  
ext. citations

6.6  
avg, IF

6.43  
L-index

#	Paper	IF	Citations
192	Inferring iron-oxide species content in atmospheric mineral dust from DSCOVR EPIC observations. <i>Atmospheric Chemistry and Physics</i> , <b>2022</b> , 22, 1395-1423	6.8	1
191	A Novel Atmospheric Correction Algorithm to Exploit the Diurnal Variability in Hypertemporal Geostationary Observations. <i>Remote Sensing</i> , <b>2022</b> , 14, 964	5	0
190	Numerical Results for Polarized Light Scattering in a Spherical Atmosphere. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2022</b> , 108194	2.1	2
189	A practical guide to writing a radiative transfer code. <i>Computer Physics Communications</i> , <b>2021</b> , 108198	4.2	1
188	Monthly Global Estimates of Fine Particulate Matter and Their Uncertainty. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 15287-15300	10.3	16
187	Retrievals of Aerosol Optical Depth and Spectral Absorption From DSCOVR EPIC. <i>Frontiers in Remote Sensing</i> , <b>2021</b> , 2,	1	4
186	Evaluation of Novel NASA Moderate Resolution Imaging Spectroradiometer and Visible Infrared Imaging Radiometer Suite Aerosol Products and Assessment of Smoke Height Boundary Layer Ratio During Extreme Smoke Events in the Western USA. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2021</b> , 126, e2020JD034180	4.4	1
185	Effects of COVID-19 lockdowns on fine particulate matter concentrations. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	17
184	Reconstructing 1-km-resolution high-quality PM <sub>2.5</sub> data records from 2000 to 2018 in China: spatiotemporal variations and policy implications. <i>Remote Sensing of Environment</i> , <b>2021</b> , 252, 112136	13.2	111
183	Impact of aerosol layering, complex aerosol mixing, and cloud coverage on high-resolution MAIAC aerosol optical depth measurements: Fusion of lidar, AERONET, satellite, and ground-based measurements. <i>Atmospheric Environment</i> , <b>2021</b> , 247, 118163	5.3	10
182	Aerosol properties in cloudy environments from remote sensing observations: a review of the current state of knowledge. <i>Bulletin of the American Meteorological Society</i> , <b>2021</b> , 1-57	6.1	2
181	Evaluation and intercomparison of wildfire smoke forecasts from multiple modeling systems for the 2019 Williams Flats fire. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 14427-14469	6.8	9
180	Atmospheric Correction of DSCOVR EPIC: Version 2 MAIAC Algorithm. <i>Frontiers in Remote Sensing</i> , <b>2021</b> , 2,	1	2
179	Impact of environmental attributes on the uncertainty in MAIAC/MODIS AOD retrievals: A comparative analysis. <i>Atmospheric Environment</i> , <b>2021</b> , 262, 118659	5.3	3
178	Global Estimates and Long-Term Trends of Fine Particulate Matter Concentrations (1998-2018). <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 7879-7890	10.3	143
177	Estimation of High-Resolution PM over the Indo-Gangetic Plain by Fusion of Satellite Data, Meteorology, and Land Use Variables. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 7891-7900	10.3	33
176	Revised and extended benchmark results for Rayleigh scattering of sunlight in spherical atmospheres. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2020</b> , 254, 107181	2.1	7

175	Assessment of urban aerosol pollution over the Moscow megacity by the MAIAC aerosol product. <i>Atmospheric Measurement Techniques</i> , <b>2020</b> , 13, 877-891	4	5
174	Satellite mapping of PM <sub>2.5</sub> episodes in the wintertime San Joaquin Valley: a static model using column water vapor. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 4379-4397	6.8	2
173	Predicting Fine Particulate Matter (PM <sub>2.5</sub> ) in the Greater London Area: An Ensemble Approach using Machine Learning Methods. <i>Remote Sensing</i> , <b>2020</b> , 12, 914	5	34
172	An AeroCom/AeroSat study: Intercomparison of Satellite AOD Datasets for Aerosol Model Evaluation <b>2020</b> ,		1
171	Merging regional and global aerosol optical depth records from major available satellite products. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 2031-2056	6.8	56
170	Evaluating impacts of snow, surface water, soil and vegetation on empirical vegetation and snow indices for the Utqiagvik tundra ecosystem in Alaska with the LVS3 model. <i>Remote Sensing of Environment</i> , <b>2020</b> , 240, 111677	13.2	7
169	An AeroCom/AeroSat study: intercomparison of satellite AOD datasets for aerosol model evaluation. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 12431-12457	6.8	14
168	The AERONET Version 3 aerosol retrieval algorithm, associated uncertainties and comparisons to Version 2. <i>Atmospheric Measurement Techniques</i> , <b>2020</b> , 13, 3375-3411	4	67
167	Gradient boosting machine learning to improve satellite-derived column water vapor measurement error. <i>Atmospheric Measurement Techniques</i> , <b>2020</b> , 13, 4669-4681	4	2
166	Validation of GRASP algorithm product from POLDER/PARASOL data and assessment of multi-angular polarimetry potential for aerosol monitoring. <i>Earth System Science Data</i> , <b>2020</b> , 12, 3573-3620	10.5	30
165	MAIAC Thermal Technique for Smoke Injection Height From MODIS. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2020</b> , 17, 730-734	4.1	17
164	Assessing NO Concentration and Model Uncertainty with High Spatiotemporal Resolution across the Contiguous United States Using Ensemble Model Averaging. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 1372-1384	10.3	61
163	Advancing methodologies for applying machine learning and evaluating spatiotemporal models of fine particulate matter (PM) using satellite data over large regions. <i>Atmospheric Environment</i> , <b>2020</b> , 239, 117649-117649	5.3	20
162	The Relationship Between MAIAC Smoke Plume Heights and Surface PM. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL088949	4.9	5
161	Spatial validation reveals poor predictive performance of large-scale ecological mapping models. <i>Nature Communications</i> , <b>2020</b> , 11, 4540	17.4	92
160	Seasonal Comparisons of Himawari-8 AHI and MODIS Vegetation Indices over Latitudinal Australian Grassland Sites. <i>Remote Sensing</i> , <b>2020</b> , 12, 2494	5	6
159	Improved 1 km resolution PM <sub>2.5</sub> estimates across China using enhanced space-time extremely randomized trees. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 3273-3289	6.8	119
158	Estimating daily PM concentrations in New York City at the neighborhood-scale: Implications for integrating non-regulatory measurements. <i>Science of the Total Environment</i> , <b>2019</b> , 697, 134094	10.2	19

157	Global validation of columnar water vapor derived from EOS MODIS-MAIAC algorithm against the ground-based AERONET observations. <i>Atmospheric Research</i> , <b>2019</b> , 225, 181-192	5.4	15
156	AERONET Remotely Sensed Measurements and Retrievals of Biomass Burning Aerosol Optical Properties During the 2015 Indonesian Burning Season. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 4722-4740	4.4	21
155	Tracking ambient PM <sub>2.5</sub> build-up in Delhi national capital region during the dry season over 15 years using a high-resolution (1 km) satellite aerosol dataset. <i>Atmospheric Environment</i> , <b>2019</b> , 204, 142-150	5.3	57
154	Matrix exponential in C/C++ version of vector radiative transfer code IPOL. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2019</b> , 227, 106-110	2.1	10
153	Comparison and evaluation of MODIS Multi-angle Implementation of Atmospheric Correction (MAIAC) aerosol product over South Asia. <i>Remote Sensing of Environment</i> , <b>2019</b> , 224, 12-28	13.2	73
152	Analysis of a severe dust storm and its impact on air quality conditions using WRF-Chem modeling, satellite imagery, and ground observations. <i>Air Quality, Atmosphere and Health</i> , <b>2019</b> , 12, 453-470	5.6	34
151	Advancements in the Aerosol Robotic Network (AERONET) Version 3 database Automated near-real-time quality control algorithm with improved cloud screening for Sun photometer aerosol optical depth (AOD) measurements. <i>Atmospheric Measurement Techniques</i> , <b>2019</b> , 12, 169-209	4	370
150	Merging regional and global AOD records from 15 available satellite products <b>2019</b> ,		1
149	An ensemble-based model of PM concentration across the contiguous United States with high spatiotemporal resolution. <i>Environment International</i> , <b>2019</b> , 130, 104909	12.9	170
148	Satellite Mapping of PM <sub>2.5</sub> Episodes in the Wintertime San Joaquin Valley: A "Static" Model Using Column Water Vapor <b>2019</b> ,		1
147	Assessing uncertainties of a geophysical approach to estimate surface fine particulate matter distributions from satellite-observed aerosol optical depth. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 295-313	6.8	20
146	Connecting Crop Productivity, Residue Fires, and Air Quality over Northern India. <i>Scientific Reports</i> , <b>2019</b> , 9, 16594	4.9	81
145	<b>2019</b> ,		1
144	First Provisional Land Surface Reflectance Product from Geostationary Satellite Himawari-8 AHI. <i>Remote Sensing</i> , <b>2019</b> , 11, 2990	5	12
143	UV Reflectance of the Ocean from DSCOVR/EPIC: Comparisons with a Theoretical Model and Aura/OMI Observations. <i>Journal of Atmospheric and Oceanic Technology</i> , <b>2019</b> , 36, 2087-2099	2	3
142	Improved 1-km-resolution PM <sub>2.5</sub> estimates across China using the space-time extremely randomized trees <b>2019</b> ,		1
141	MODIS BRDF effects over Brazilian tropical forests and savannahs: a comparative analysis. <i>Remote Sensing Letters</i> , <b>2019</b> , 10, 95-102	2.3	2
140	Estimation of daily PM and PM concentrations in Italy, 2013-2015, using a spatiotemporal land-use random-forest model. <i>Environment International</i> , <b>2019</b> , 124, 170-179	12.9	147

139	Impacts of snow and cloud covers on satellite-derived PM levels. <i>Remote Sensing of Environment</i> , <b>2019</b> , 221, 665-674	13.2	54
138	Photopolarimetric Sensitivity to Black Carbon Content of Wildfire Smoke: Results From the 2016 ImPACT-PM Field Campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 5376-5396	4.4	12
137	Observations of the Interaction and Transport of Fine Mode Aerosols with Cloud and/or Fog in Northeast Asia from Aerosol Robotic Network (AERONET) and Satellite Remote Sensing. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 5560-5587	4.4	33
136	MAIAC-based long-term spatiotemporal trends of PM in Beijing, China. <i>Science of the Total Environment</i> , <b>2018</b> , 616-617, 1589-1598	10.2	61
135	Estimating daily and intra-daily PM10 and PM2.5 in Israel using a spatio-temporal hybrid modeling approach. <i>Atmospheric Environment</i> , <b>2018</b> , 191, 142-152	5.3	23
134	Correcting Measurement Error in Satellite Aerosol Optical Depth with Machine Learning for Modeling PM in the Northeastern USA. <i>Remote Sensing</i> , <b>2018</b> , 10,	5	41
133	Predicting monthly high-resolution PM concentrations with random forest model in the North China Plain. <i>Environmental Pollution</i> , <b>2018</b> , 242, 675-683	9.3	97
132	Advances in multiangle satellite remote sensing of speciated airborne particulate matter and association with adverse health effects: from MISR to MAIA. <i>Journal of Applied Remote Sensing</i> , <b>2018</b> , 12, 1	1.4	52
131	Agricultural Burning and Air Quality over Northern India: A Synergistic Analysis using NASA's A-train Satellite Data and Ground Measurements. <i>Aerosol and Air Quality Research</i> , <b>2018</b> , 18, 1756-1773	4.6	53
130	Assessing snow extent data sets over North America to inform and improve trace gas retrievals from solar backscatter. <i>Atmospheric Measurement Techniques</i> , <b>2018</b> , 11, 2983-2994	4	10
129	Exploring systematic offsets between aerosol products from the two MODIS sensors. <i>Atmospheric Measurement Techniques</i> , <b>2018</b> , 11, 4073-4092	4	49
128	Earth Observations from DSCOVR/EPIC Instrument. <i>Bulletin of the American Meteorological Society</i> , <b>2018</b> , 99, 1829-1850	6.1	72
127	Validation of SOAR VIIRS Over-Water Aerosol Retrievals and Context Within the Global Satellite Aerosol Data Record. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 13,496	4.4	20
126	MODIS Collection 6 MAIAC algorithm. <i>Atmospheric Measurement Techniques</i> , <b>2018</b> , 11, 5741-5765	4	291
125	Satellite-based view of the aerosol spatial and temporal variability in the Córdoba region (Argentina) using over ten years of high-resolution data. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , <b>2018</b> , 145, 250-267	11.8	23
124	Estimation of Terrestrial Global Gross Primary Production (GPP) with Satellite Data-Driven Models and Eddy Covariance Flux Data. <i>Remote Sensing</i> , <b>2018</b> , 10, 1346	5	67
123	Bayesian geostatistical modelling of PM and PM surface level concentrations in Europe using high-resolution satellite-derived products. <i>Environment International</i> , <b>2018</b> , 121, 57-70	12.9	34
122	Seasonal and interannual assessment of cloud cover and atmospheric constituents across the Amazon (2000-2015): Insights for remote sensing and climate analysis. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , <b>2018</b> , 145, 309-327	11.8	35

121	Estimation of daily PM concentrations in Italy (2006-2012) using finely resolved satellite data, land use variables and meteorology. <i>Environment International</i> , <b>2017</b> , 99, 234-244	12.9	66
120	Vegetation chlorophyll estimates in the Amazon from multi-angle MODIS observations and canopy reflectance model. <i>International Journal of Applied Earth Observation and Geoinformation</i> , <b>2017</b> , 58, 278-287	7.3	11
119	Vector radiative transfer code SORD: Performance analysis and quick start guide. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2017</b> , 200, 295-310	2.1	11
118	Evaluation of the Multi-Angle Implementation of Atmospheric Correction (MAIAC) Aerosol Algorithm through Intercomparison with VIIRS Aerosol Products and AERONET. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 3005-3022	4.4	30
117	Climate drivers of the Amazon forest greening. <i>PLoS ONE</i> , <b>2017</b> , 12, e0180932	3.7	46
116	Full-coverage high-resolution daily PM <sub>2.5</sub> estimation using MAIAC AOD in the Yangtze River Delta of China. <i>Remote Sensing of Environment</i> , <b>2017</b> , 199, 437-446	13.2	168
115	An example of aerosol pattern variability over bright surface using high resolution MODIS MAIAC: The eastern and western areas of the Dead Sea and environs. <i>Atmospheric Environment</i> , <b>2017</b> , 165, 359-369	5.3	17
114	Monthly analysis of PM ratio characteristics and its relation to AOD. <i>Journal of the Air and Waste Management Association</i> , <b>2017</b> , 67, 27-38	2.4	9
113	Developing particle emission inventories using remote sensing (PEIRS). <i>Journal of the Air and Waste Management Association</i> , <b>2017</b> , 67, 53-63	2.4	4
112	Validation of high-resolution MAIAC aerosol product over South America. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 7537-7559	4.4	56
111	Progress in Remote Sensing of Photosynthetic Activity over the Amazon Basin. <i>Remote Sensing</i> , <b>2017</b> , 9, 48	5	7
110	Detecting Inter-Annual Variations in the Phenology of Evergreen Conifers Using Long-Term MODIS Vegetation Index Time Series. <i>Remote Sensing</i> , <b>2017</b> , 9, 49	5	37
109	Prototyping of LAI and FPAR Retrievals from MODIS Multi-Angle Implementation of Atmospheric Correction (MAIAC) Data. <i>Remote Sensing</i> , <b>2017</b> , 9, 370	5	15
108	The Potential Impact of Satellite-Retrieved Cloud Parameters on Ground-Level PM Mass and Composition. <i>International Journal of Environmental Research and Public Health</i> , <b>2017</b> , 14,	4.6	14
107	Spatiotemporal prediction of fine particulate matter using high-resolution satellite images in the Southeastern US 2003-2011. <i>Journal of Exposure Science and Environmental Epidemiology</i> , <b>2016</b> , 26, 377-384	6.7	62
106	Consistency of vegetation index seasonality across the Amazon rainforest. <i>International Journal of Applied Earth Observation and Geoinformation</i> , <b>2016</b> , 52, 42-53	7.3	24
105	Global Estimates of Fine Particulate Matter using a Combined Geophysical-Statistical Method with Information from Satellites, Models, and Monitors. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 3762-72	10.3	627
104	Amazon Forests Response to Droughts: A Perspective from the MAIAC Product. <i>Remote Sensing</i> , <b>2016</b> , 8, 356	5	22



103	Regional atmospheric CO2 inversion reveals seasonal and geographic differences in Amazon net biome exchange. <i>Global Change Biology</i> , <b>2016</b> , 22, 3427-43	11.4	39
102	Accuracy of RT code SORD for realistic atmospheric profiles <b>2016</b> ,		1
101	Assessing PM2.5 Exposures with High Spatiotemporal Resolution across the Continental United States. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 4712-21	10.3	251
100	A new code SORD for simulation of polarized light scattering in the Earth atmosphere <b>2016</b> ,		1
99	Seasonal monitoring and estimation of regional aerosol distribution over Po valley, northern Italy, using a high-resolution MAIAC product. <i>Atmospheric Environment</i> , <b>2016</b> , 141, 106-121	5.3	20
98	Scaling estimates of vegetation structure in Amazonian tropical forests using multi-angle MODIS observations. <i>International Journal of Applied Earth Observation and Geoinformation</i> , <b>2016</b> , 52, 580-590	7.3	4
97	Reply to Gonsamo et al.: Effect of the Eastern Atlantic-West Russia pattern on Amazon vegetation has not been demonstrated. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, E1056	11.5	
96	Photosynthetic seasonality of global tropical forests constrained by hydroclimate. <i>Nature Geoscience</i> , <b>2015</b> , 8, 284-289	18.3	251
95	IPRT polarized radiative transfer model intercomparison project [Phase A. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2015</b> , 164, 8-36	2.1	64
94	Using High-Resolution Satellite Aerosol Optical Depth To Estimate Daily PM2.5 Geographical Distribution in Mexico City. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 8576-84	10.3	129
93	The 2010 Russian drought impact on satellite measurements of solar-induced chlorophyll fluorescence: Insights from modeling and comparisons with parameters derived from satellite reflectances. <i>Remote Sensing of Environment</i> , <b>2015</b> , 166, 163-177	13.2	142
92	Estimating daily PM and PM across the complex geo-climate region of Israel using MAIAC satellite-based AOD data. <i>Atmospheric Environment</i> , <b>2015</b> , 122, 409-416	5.3	100
91	Sunlight mediated seasonality in canopy structure and photosynthetic activity of Amazonian rainforests. <i>Environmental Research Letters</i> , <b>2015</b> , 10, 064014	6.2	77
90	Seasonality and drought effects of Amazonian forests observed from multi-angle satellite data. <i>Remote Sensing of Environment</i> , <b>2015</b> , 171, 278-290	13.2	24
89	Estimation of crop gross primary production (GPP): II. Do scaled MODIS vegetation indices improve performance?. <i>Agricultural and Forest Meteorology</i> , <b>2015</b> , 200, 1-8	5.8	24
88	Characterization of forest fire smoke event near Washington, DC in summer 2013 with multi-wavelength lidar. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 1647-1660	6.8	36
87	On the measurability of change in Amazon vegetation from MODIS. <i>Remote Sensing of Environment</i> , <b>2015</b> , 166, 233-242	13.2	59
86	Fine particulate matter predictions using high resolution Aerosol Optical Depth (AOD) retrievals. <i>Atmospheric Environment</i> , <b>2014</b> , 89, 189-198	5.3	81

85	Improving satellite-driven PM models with Moderate Resolution Imaging Spectroradiometer fire counts in the southeastern U.S. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 11375-11386	4.4	25
84	A New Hybrid Spatio-Temporal Model For Estimating Daily Multi-Year PM Concentrations Across Northeastern USA Using High Resolution Aerosol Optical Depth Data. <i>Atmospheric Environment</i> , <b>2014</b> , 95, 581-590	5.3	220
83	Vegetation dynamics and rainfall sensitivity of the Amazon. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 16041-6	11.5	205
82	Estimation of crop gross primary production (GPP): fAPARchl versus MOD15A2 FPAR. <i>Remote Sensing of Environment</i> , <b>2014</b> , 153, 1-6	13.2	45
81	High resolution aerosol data from MODIS satellite for urban air quality studies. <i>Open Geosciences</i> , <b>2014</b> , 6,	1.3	10
80	Impacts of light use efficiency and fPAR parameterization on gross primary production modeling. <i>Agricultural and Forest Meteorology</i> , <b>2014</b> , 189-190, 187-197	5.8	43
79	Observation of mountain lee waves with MODIS NIR column water vapor. <i>Geophysical Research Letters</i> , <b>2014</b> , 41, 710-716	4.9	16
78	Observations of rapid aerosol optical depth enhancements in the vicinity of polluted cumulus clouds. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 11633-11656	6.8	46
77	10-year spatial and temporal trends of PM concentrations in the southeastern US estimated using high-resolution satellite data. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 6301-6314	6.8	81
76	Scientific impact of MODIS C5 calibration degradation and C6+ improvements. <i>Atmospheric Measurement Techniques</i> , <b>2014</b> , 7, 4353-4365	4	151
75	Satellite observed widespread decline in Mongolian grasslands largely due to overgrazing. <i>Global Change Biology</i> , <b>2014</b> , 20, 418-28	11.4	167
74	Science impact of MODIS C5 calibration degradation and C6+ improvements <b>2014</b> ,		8
73	Estimating ground-level PM <sub>2.5</sub> concentrations in the Southeastern United States using MAIAC AOD retrievals and a two-stage model. <i>Remote Sensing of Environment</i> , <b>2014</b> , 140, 220-232	13.2	224
72	Estimation of crop gross primary production (GPP): I. impact of MODIS observation footprint and impact of vegetation BRDF characteristics. <i>Agricultural and Forest Meteorology</i> , <b>2014</b> , 191, 51-63	5.8	26
71	A method of retrieving cloud top height and cloud geometrical thickness with oxygen A and B bands for the Deep Space Climate Observatory (DSCOVR) mission: Radiative transfer simulations. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2013</b> , 122, 141-149	2.1	37
70	APC: A new code for Atmospheric Polarization Computations. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2013</b> , 127, 1-11	2.1	8
69	Spatial scales of pollution from variable resolution satellite imaging. <i>Environmental Pollution</i> , <b>2013</b> , 172, 131-8	9.3	81
68	Aerosol optical depth (AOD) retrieval using simultaneous GOES-East and GOES-West reflected radiances over the western United States. <i>Atmospheric Measurement Techniques</i> , <b>2013</b> , 6, 471-486	4	15



67	Analyses of high resolution aerosol data from MODIS satellite: a MAIAC retrieval, southern New England, US <b>2013</b> ,		2
66	Reply to Townsend et al.: Decoupling contributions from canopy structure and leaf optics is critical for remote sensing leaf biochemistry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, E1075	11.5	9
65	Hyperspectral remote sensing of foliar nitrogen content. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, E185-92	11.5	310
64	Reply to Ollinger et al.: Remote sensing of leaf nitrogen and emergent ecosystem properties. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, E2438	11.5	8
63	A critical assessment of high-resolution aerosol optical depth retrievals for fine particulate matter predictions. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 10907-10917	6.8	60
62	Surface reflectance of Mars observed by CRISM/MRO: 1. Multi-angle Approach for Retrieval of Surface Reflectance from CRISM observations (MARS-ReCO). <i>Journal of Geophysical Research E: Planets</i> , <b>2013</b> , 118, 514-533	4.1	28
61	Land and cryosphere products from Suomi NPP VIIRS: Overview and status. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 9753-9765	4.4	120
60	Application of MAIAC high spatial resolution aerosol retrievals over Po Valley (Italy) <b>2013</b> ,		1
59	On the accuracy of double scattering approximation for atmospheric polarization computations. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2012</b> , 113, 172-181	2.1	4
58	Modifications of discrete ordinate method for computations with high scattering anisotropy: Comparative analysis. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2012</b> , 113, 2040-2048	2.1	9
57	Remote sensing of tropical ecosystems: Atmospheric correction and cloud masking matter. <i>Remote Sensing of Environment</i> , <b>2012</b> , 127, 370-384	13.2	89
56	Multi-angle implementation of atmospheric correction for MODIS (MAIAC): 3. Atmospheric correction. <i>Remote Sensing of Environment</i> , <b>2012</b> , 127, 385-393	13.2	166
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