

Ralph A Kahn

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.

214
papers

15,536
citations

65
h-index

122
g-index

251
ext. papers

17,516
ext. citations

6
avg, IF

6.44
L-index

#	Paper	IF	Citations
214	Opportunistic experiments to constrain aerosol effective radiative forcing.. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 641-674	6.8	6
213	Space-Based Passive Aerosol Remote Sensing from the Multi-angle Imaging SpectroRadiometer (MISR) aboard NASA's Terra Satellite 2022 , 1-14		
212	La Soufriere Volcanic Eruptions Launched Gravity Waves Into Space. <i>Geophysical Research Letters</i> , 2022 , 49,	4.9	2
211	Constraining Aerosol Phase Function Using Dual-View Geostationary Satellites. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2021JD035209	4.4	
210	Monthly Global Estimates of Fine Particulate Matter and Their Uncertainty. <i>Environmental Science & Technology</i> , 2021 , 55, 15287-15300	10.3	16
209	Potential impact of aerosols on convective clouds revealed by Himawari-8 observations over different terrain types in eastern China. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 6199-6220	6.8	9
208	Effects of COVID-19 lockdowns on fine particulate matter concentrations. <i>Science Advances</i> , 2021 , 7,	14.3	17
207	Quantifying the Source Term and Uniqueness of the August 12, 2017 Pacific Northwest PyroCb Event. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2021JD034928	4.4	3
206	Twenty years of NASA-EOS multi-sensor satellite observations at Kilauea volcano (2000-2019). <i>Journal of Volcanology and Geothermal Research</i> , 2021 , 415, 107247	2.8	1
205	Large global variations in measured airborne metal concentrations driven by anthropogenic sources. <i>Scientific Reports</i> , 2020 , 10, 21817	4.9	4
204	The Evolution of Icelandic Volcano Emissions, as Observed From Space in the Era of NASA's Earth Observing System (EOS). <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD031625	4.4	9
203	Introducing the 4.4 km spatial resolution Multi-Angle Imaging SpectroRadiometer (MISR) aerosol product. <i>Atmospheric Measurement Techniques</i> , 2020 , 13, 593-628	4	41
202	Air quality monitoring using mobile low-cost sensors mounted on trash-trucks: Methods development and lessons learned. <i>Sustainable Cities and Society</i> , 2020 , 60, 102239	10.1	16
201	Global Estimates and Long-Term Trends of Fine Particulate Matter Concentrations (1998-2018). <i>Environmental Science & Technology</i> , 2020 , 54, 7879-7890	10.3	143
200	Wildfire Smoke Particle Properties and Evolution, from Space-Based Multi-Angle Imaging. <i>Remote Sensing</i> , 2020 , 12, 769	5	19
199	Synergy of Satellite- and Ground-Based Aerosol Optical Depth Measurements Using an Ensemble Kalman Filter Approach. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD031884	4.4	6
198	Merging regional and global aerosol optical depth records from major available satellite products. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 2031-2056	6.8	56

197	Saharan Dust Aerosols Change Deep Convective Cloud Prevalence, Possibly by Inhibiting Marine New Particle Formation. <i>Journal of Climate</i> , 2020 , 33, 9467-9480	4.4	1
196	Combining low-cost, surface-based aerosol monitors with size-resolved satellite data for air quality applications. <i>Atmospheric Measurement Techniques</i> , 2020 , 13, 5319-5334	4	6
195	A Global Perspective on Wildfires. <i>Eos</i> , 2020 , 101,	1.5	6
194	Space-Based Observations for Understanding Changes in the Arctic-Boreal Zone. <i>Reviews of Geophysics</i> , 2020 , 58, e2019RG000652	23.1	23
193	Interpreting the volcanological processes of Kamchatka, based on multi-sensor satellite observations. <i>Remote Sensing of Environment</i> , 2020 , 237, 111585	13.2	7
192	A new method to retrieve the diurnal variability of planetary boundary layer height from lidar under different thermodynamic stability conditions. <i>Remote Sensing of Environment</i> , 2020 , 237, 111519	13.2	22
191	MAIAC Thermal Technique for Smoke Injection Height From MODIS. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2020 , 17, 730-734	4.1	17
190	Wildfire Smoke Particle Properties and Evolution, From Space-Based Multi-Angle Imaging II: The Williams Flats Fire during the FIREX-AQ Campaign. <i>Remote Sensing</i> , 2020 , 12, 3823	5	3
189	Ensemble PM2.5 Forecasting During the 2018 Camp Fire Event Using the HYSPLIT Transport and Dispersion Model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2020JD032768	4.4	7
188	A Review of Satellite Constraints on Airborne Dust: What We Can Say, and What We Can't. <i>E3S Web of Conferences</i> , 2019 , 99, 01008	0.5	
187	Biomass-burning smoke heights over the Amazon observed from space. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 1685-1702	6.8	21
186	Updated MISR over-water research aerosol retrieval algorithm [Part 2: A multi-angle aerosol retrieval algorithm for shallow, turbid, oligotrophic, and eutrophic waters. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 675-689	4	17
185	Merging regional and global AOD records from 15 available satellite products 2019 ,		1
184	Estimates of African Dust Deposition Along the Trans-Atlantic Transit Using the Decade-long Record of Aerosol Measurements from CALIOP, MODIS, MISR, and IASI. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 7975-7996	4.4	40
183	Asian and Trans-Pacific Dust: A Multimodel and Multiremote Sensing Observation Analysis. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 13534-13559	4.4	17
182	Karymsky volcano eruptive plume properties based on MISR multi-angle imagery, and volcanological implications. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 3903-3918	6.8	11
181	Aerosol Absorption: Progress Towards Global and Regional Constraints. <i>Current Climate Change Reports</i> , 2018 , 4, 65-83	9	72
180	Development and implementation of a new biomass burning emissions injection height scheme (BBEIH v1.0) for the GEOS-Chem model (v9-01-01). <i>Geoscientific Model Development</i> , 2018 , 11, 4103-4116	6.3	22

179	The impact of MISR-derived injection height initialization on wildfire and volcanic plume dispersion in the HYSPLIT model. <i>Atmospheric Measurement Techniques</i> , 2018 , 11, 6289-6307	4	13
178	Development and implementation of a new biomass burning emissions injection height scheme for the GEOSChem model 2018 ,		1
177	MISR Radiance Anomalies Induced by Stratospheric Volcanic Aerosols. <i>Remote Sensing</i> , 2018 , 10, 1875	5	
176	A satellite-based estimate of aerosol-cloud microphysical effects over the Arctic Ocean 2018 ,		1
175	A satellite-based estimate of combustion aerosol cloud microphysical effects over the Arctic Ocean. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 14949-14964	6.8	10
174	Relationships between the planetary boundary layer height and surface pollutants derived from lidar observations over China: regional pattern and influencing factors. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 15921-15935	6.8	121
173	A Global Analysis of Wildfire Smoke Injection Heights Derived from Space-Based Multi-Angle Imaging. <i>Remote Sensing</i> , 2018 , 10, 1609	5	40
172	Relationships between the planetary boundary layer height and surface pollutants derived from lidar observations over China 2018 ,		1
171	Constraining chemical transport PM modeling outputs using surface monitor measurements and satellite retrievals: application over the San Joaquin Valley. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 12891-12913	6.8	9
170	Global Sources of Fine Particulate Matter: Interpretation of PM Chemical Composition Observed by SPARTAN using a Global Chemical Transport Model. <i>Environmental Science & Technology</i> , 2018 , 52, 11670-11681	10.3	40
169	Assessing the altitude and dispersion of volcanic plumes using MISR multi-angle imaging from space: Sixteen years of volcanic activity in the Kamchatka Peninsula, Russia. <i>Journal of Volcanology and Geothermal Research</i> , 2017 , 337, 1-15	2.8	23
168	Reducing Multi-sensor Monthly Mean Aerosol Optical Depth Uncertainty Part II: Optimal Locations for Potential Ground Observation Deployments. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , Volume 122, 3920-3928	4.4	3
167	SAM-CAAM: A Concept for Acquiring Systematic Aircraft Measurements to Characterize Aerosol Air Masses. <i>Bulletin of the American Meteorological Society</i> , 2017 , 98, 2215-2228	6.1	15
166	Daily ambient air pollution metrics for five cities: Evaluation of data-fusion-based estimates and uncertainties. <i>Atmospheric Environment</i> , 2017 , 158, 36-50	5.3	20
165	Updated MISR dark water research aerosol retrieval algorithm [Part I]: Coupled 1.1 km ocean surface chlorophyll<i>a</i> retrievals with empirical calibration corrections. <i>Atmospheric Measurement Techniques</i> , 2017 , 10, 1539-1555	4	20
164	Refined Use of Satellite Aerosol Optical Depth Snapshots to Constrain Biomass Burning Emissions in the GOCART Model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 10,983-11,004	4.4	12
163	Distinguishing remobilized ash from erupted volcanic plumes using space-borne multi-angle imaging. <i>Geophysical Research Letters</i> , 2017 , 44, 10772-10779	4.9	8
162	Aerosol indirect effects on the nighttime Arctic Ocean surface from thin, predominantly liquid clouds. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 7311-7332	6.8	12

161	Reducing multisensor satellite monthly mean aerosol optical depth uncertainty: 1. Objective assessment of current AERONET locations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 13609-13627	4.4	15
160	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	6.8	15
159	Aircraft-measured indirect cloud effects from biomass burning smoke in the Arctic and subarctic. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 715-738	6.8	22
158	Variation in global chemical composition of PM _{2.5} : emerging results from SPARTAN. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 9629-9653	6.8	92
157	Global Estimates of Fine Particulate Matter using a Combined Geophysical-Statistical Method with Information from Satellites, Models, and Monitors. <i>Environmental Science & Technology</i> , 2016 , 50, 3762-72	10.3	627
156	The Sensitivity of SeaWiFS Ocean Color Retrievals to Aerosol Amount and Type. <i>Journal of Atmospheric and Oceanic Technology</i> , 2016 , 33, 1185-1209	2	17
155	Improving our fundamental understanding of the role of aerosol-cloud interactions in the climate system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 5781-90	11.5	314
154	MISR calibration issues in high-contrast scenes, and empirical corrections 2015 ,		1
153	SPARTAN: a global network to evaluate and enhance satellite-based estimates of ground-level particulate matter for global health applications. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 505-524	4	56
152	Improving satellite-retrieved aerosol microphysical properties using GOCART data. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 1157-1171	4	24
151	An analysis of global aerosol type as retrieved by MISR. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 4248-4281	4.4	137
150	MISR empirical stray light corrections in high-contrast scenes. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 2927-2943	4	12
149	Global observations of aerosol-cloud-precipitation-climate interactions. <i>Reviews of Geophysics</i> , 2014 , 52, 750-808	23.1	215
148	Sources, sinks, and transatlantic transport of North African dust aerosol: A multimodel analysis and comparison with remote sensing data. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 6259-6277	4.4	71
147	Satellite data of atmospheric pollution for U.S. air quality applications: Examples of applications, summary of data end-user resources, answers to FAQs, and common mistakes to avoid. <i>Atmospheric Environment</i> , 2014 , 94, 647-662	5.3	148
146	Earth's Climate Sensitivity: Apparent Inconsistencies in Recent Assessments. <i>Earth's Future</i> , 2014 , 2, 601-605	6.9	12
145	Multi-decadal aerosol variations from 1980 to 2009: a perspective from observations and a global model. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 3657-3690	6.8	201
144	MISR research-aerosol-algorithm refinements for dark water retrievals. <i>Atmospheric Measurement Techniques</i> , 2014 , 7, 3989-4007	4	25

143	Impact of satellite viewing-swath width on global and regional aerosol optical thickness statistics and trends. <i>Atmospheric Measurement Techniques</i> , 2014 , 7, 2313-2335	4	30
142	MISR Research Aerosol Algorithm: refinements for dark water retrievals 2014 ,		1
141	Dryness of ephemeral lakes and consequences for dust activity: the case of the Hamoun drainage basin, southeastern Iran. <i>Science of the Total Environment</i> , 2013 , 463-464, 552-64	10.2	104
140	Satellite perspective of aerosol intercontinental transport: From qualitative tracking to quantitative characterization. <i>Atmospheric Research</i> , 2013 , 124, 73-100	5.4	58
139	Tropical Atlantic dust and smoke aerosol variations related to the Madden-Julian Oscillation in MODIS and MISR observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 4947-4963	4.4	24
138	Absorption properties of Mediterranean aerosols obtained from multi-year ground-based remote sensing observations. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 9195-9210	6.8	80
137	Aerosol airmass type mapping over the Urban Mexico City region from space-based multi-angle imaging. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 9525-9541	6.8	17
136	Stereoscopic Height and Wind Retrievals for Aerosol Plumes with the MISR Interactive eXplorer (MINX). <i>Remote Sensing</i> , 2013 , 5, 4593-4628	5	77
135	Satellite contributions to the quantitative characterization of biomass burning for climate modeling. <i>Atmospheric Research</i> , 2012 , 111, 1-28	5.4	71
134	MISR observations of Etna volcanic plumes. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		36
133	The use of satellite-measured aerosol optical depth to constrain biomass burning emissions source strength in the global model GOCART. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		64
132	Space-based observational constraints for 1-D fire smoke plume-rise models. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		72
131	Reducing the Uncertainties in Direct Aerosol Radiative Forcing. <i>Surveys in Geophysics</i> , 2012 , 33, 701-721	7.6	70
130	Implications of satellite swath width on global aerosol optical thickness statistics 2012 ,		3
129	Reply to Comments on "Why Hasn't Earth Warmed as Much as Expected?" <i>Journal of Climate</i> , 2012 , 25, 2200-2204	4.4	1
128	Intercomparison of desert dust optical depth from satellite measurements. <i>Atmospheric Measurement Techniques</i> , 2012 , 5, 1973-2002	4	35
127	Desert Dust Properties, Modelling, and Monitoring. <i>Advances in Meteorology</i> , 2012 , 2012, 1-2	1.7	4
126	Eyjafjallajökull volcano plume particle-type characterization from space-based multi-angle imaging. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 9459-9477	6.8	34

125	Modulation of Atlantic aerosols by the Madden-Julian Oscillation. <i>Journal of Geophysical Research</i> , 2011 , 116,		23
124	An investigation of methods for injecting emissions from boreal wildfires using WRF-Chem during ARCTAS. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 5719-5744	6.8	38
123	Capabilities and limitations of MISR aerosol products in dust-laden regions 2011 ,		2
122	Response to ¶oward unified satellite climatology of aerosol properties. 3. MODIS versus MISR versus AERONET¶ <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011 , 112, 901-909	2.1	40
121	Where do we need additional in situ aerosol and sun photometer data?: a critical examination of spatial biases between MODIS and MISR aerosol products 2011 ,		3
120	Maritime Aerosol Network as a component of AERONET ¶first results and comparison with global aerosol models and satellite retrievals 2011 ,		3
119	A critical examination of spatial biases between MODIS and MISR aerosol products ¶application for potential AERONET deployment. <i>Atmospheric Measurement Techniques</i> , 2011 , 4, 2823-2836	4	80
118	Maritime aerosol network as a component of AERONET ¶first results and comparison with global aerosol models and satellite retrievals. <i>Atmospheric Measurement Techniques</i> , 2011 , 4, 583-597	4	121
117	Reducing the Uncertainties in Direct Aerosol Radiative Forcing. <i>Space Sciences Series of ISSI</i> , 2011 , 369-389	2	2
116	A Hybrid Approach for Predicting PM 2.5 Exposure: van Donkelaar et al. Respond. <i>Environmental Health Perspectives</i> , 2010 , 118,	8.4	3
115	Ten years of MISR observations from Terra: Looking back, ahead, and in between 2010 ,		3
114	Global evaluation of the Collection 5 MODIS dark-target aerosol products over land. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 10399-10420	6.8	894
113	Global estimates of ambient fine particulate matter concentrations from satellite-based aerosol optical depth: development and application. <i>Environmental Health Perspectives</i> , 2010 , 118, 847-55	8.4	1174
112	Detecting thin cirrus in Multiangle Imaging Spectroradiometer aerosol retrievals. <i>Journal of Geophysical Research</i> , 2010 , 115,		28
111	A geostatistical data fusion technique for merging remote sensing and ground-based observations of aerosol optical thickness. <i>Journal of Geophysical Research</i> , 2010 , 115,		43
110	Multiangle Imaging SpectroRadiometer global aerosol product assessment by comparison with the Aerosol Robotic Network. <i>Journal of Geophysical Research</i> , 2010 , 115,		398
109	Modeling optical properties of mineral aerosol particles by using nonsymmetric hexahedra. <i>Applied Optics</i> , 2010 , 49, 334-42	0.2	77
108	Why Hasn¶Earth Warmed as Much as Expected?. <i>Journal of Climate</i> , 2010 , 23, 2453-2464	4.4	68

107	Smoke injection heights from fires in North America: analysis of 5 years of satellite observations. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 1491-1510	6.8	235
106	Analysis of snow bidirectional reflectance from ARCTAS Spring-2008 Campaign. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 4359-4375	6.8	45
105	An Overview of Terra Mission Results Related to the Carbon Cycle. <i>Geography Compass</i> , 2009 , 3, 536-559.	2.4	1
104	Analysis of the impact of the forest fires in August 2007 on air quality of Athens using multi-sensor aerosol remote sensing data, meteorology and surface observations. <i>Atmospheric Environment</i> , 2009 , 43, 3310-3318	5.3	43
103	Review of the applications of Multiangle Imaging SpectroRadiometer to air quality research. <i>Science in China Series D: Earth Sciences</i> , 2009 , 52, 132-144		14
102	Desert dust aerosol air mass mapping in the western Sahara, using particle properties derived from space-based multi-angle imaging. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2009 , 61, 239-251	3.3	52
101	Retrieval of aerosol optical thickness for desert conditions using MERIS observations during the SAMUM campaign. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2009 , 61, 229-238	3.3	21
100	Spectral surface albedo over Morocco and its impact on radiative forcing of Saharan dust. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2009 , 61, 252-269	3.3	59
99	Single-scattering properties of triaxial ellipsoidal particles for a size parameter range from the Rayleigh to geometric-optics regimes. <i>Applied Optics</i> , 2009 , 48, 114-26	0.2	79
98	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2009 , 47, 4095-4114	8.1	225
97	A Critical Look at Deriving Monthly Aerosol Optical Depth From Satellite Data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2009 , 47, 2942-2956	8.1	100
96	Quantifying aerosol direct radiative effect with Multiangle Imaging Spectroradiometer observations: Top-of-atmosphere albedo change by aerosols based on land surface types. <i>Journal of Geophysical Research</i> , 2009 , 114,		12
95	Uncertainties in satellite remote sensing of aerosols and impact on monitoring its long-term trend: a review and perspective. <i>Annales Geophysicae</i> , 2009 , 27, 2755-2770	2	235
94	Modelled radiative forcing of the direct aerosol effect with multi-observation evaluation. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 1365-1392	6.8	161
93	The sensitivity of CO and aerosol transport to the temporal and vertical distribution of North American boreal fire emissions. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 6559-6580	6.8	53
92	Retrieval of aerosol properties over land using MISR observations 2009 , 267-293		91
91	Wildfire smoke injection heights: Two perspectives from space. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	176
90	Does the Madden-Julian Oscillation influence aerosol variability?. <i>Journal of Geophysical Research</i> , 2008 , 113,		57

89	Sensitivity of multiangle imaging to the optical and microphysical properties of biomass burning aerosols. <i>Journal of Geophysical Research</i> , 2008 , 113,		48
88	An overview of UAE2 flight operations: Observations of summertime atmospheric thermodynamic and aerosol profiles of the southern Arabian Gulf. <i>Journal of Geophysical Research</i> , 2008 , 113,		27
87	POLDER2/ADEOSII, MISR, and MODIS/Terra reflectance comparisons. <i>Journal of Geophysical Research</i> , 2008 , 113,		18
86	Mineral dust plume evolution over the Atlantic from MISR and MODIS aerosol retrievals. <i>Journal of Geophysical Research</i> , 2008 , 113,		76
85	Quantitative studies of wildfire smoke injection heights with the Terra Multi-angle Imaging SpectroRadiometer 2008 ,		7
84	WindCam and MSPI: two cloud and aerosol instrument concepts derived from Terra/MISR heritage 2008 ,		4
83	Retrieving global aerosol sources from satellites using inverse modeling. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 209-250	6.8	117
82	Example applications of the MISR INTERactive eXplorer (MINX) software tool to wildfire smoke plume analyses 2008 ,		37
81	Estimating fine particulate matter component concentrations and size distributions using satellite-retrieved fractional aerosol optical depth: part 1--method development. <i>Journal of the Air and Waste Management Association</i> , 2007 , 57, 1351-9	2.4	74
80	Aerosol source plume physical characteristics from space-based multiangle imaging. <i>Journal of Geophysical Research</i> , 2007 , 112,		167
79	Satellite-derived aerosol optical depth over dark water from MISR and MODIS: Comparisons with AERONET and implications for climatological studies. <i>Journal of Geophysical Research</i> , 2007 , 112,		168
78	Using aerosol optical thickness to predict ground-level PM _{2.5} concentrations in the St. Louis area: A comparison between MISR and MODIS. <i>Remote Sensing of Environment</i> , 2007 , 107, 33-44	13.2	222
77	Simultaneous retrieval of aerosol and surface properties from a combination of AERONET and satellite data. <i>Remote Sensing of Environment</i> , 2007 , 107, 90-108	13.2	76
76	A data-mining approach to associating MISR smoke plume heights with MODIS fire measurements. <i>Remote Sensing of Environment</i> , 2007 , 107, 138-148	13.2	70
75	Near-surface wind speed retrieval from space-based, multi-angle imaging of ocean sun glint patterns. <i>Remote Sensing of Environment</i> , 2007 , 107, 223-231	13.2	9
74	The MISR radiometric calibration process. <i>Remote Sensing of Environment</i> , 2007 , 107, 2-11	13.2	41
73	Analysis of MODIS/MISR calibration differences using surface albedo around AERONET sites and cloud reflectance. <i>Remote Sensing of Environment</i> , 2007 , 107, 12-21	13.2	39
72	Limits on climate sensitivity derived from recent satellite and surface observations. <i>Journal of Geophysical Research</i> , 2007 , 112,		32

71	Estimating fine particulate matter component concentrations and size distributions using satellite-retrieved fractional aerosol optical depth: part 2--a case study. <i>Journal of the Air and Waste Management Association</i> , 2007 , 57, 1360-9	2.4	74
70	Current and future advances in optical multiangle remote sensing of aerosols and clouds based on Terra/MISR experience 2006 ,		2
69	Ability of multiangle remote sensing observations to identify and distinguish mineral dust types: 2. Sensitivity over dark water. <i>Journal of Geophysical Research</i> , 2006 , 111,		68
68	A review of measurement-based assessments of the aerosol direct radiative effect and forcing. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 613-666	6.8	628
67	Aerosol Optical Properties and Particle Size Distributions on the East Coast of the United States Derived from Airborne In Situ and Remote Sensing Measurements. <i>Journals of the Atmospheric Sciences</i> , 2006 , 63, 785-814	2.1	12
66	Multiscale Plume Transport from the Collapse of the World Trade Center on September 11, 2001. <i>Environmental Fluid Mechanics</i> , 2006 , 6, 425-450	2.2	14
65	Comparison of coincident Multiangle Imaging Spectroradiometer and Moderate Resolution Imaging Spectroradiometer aerosol optical depths over land and ocean scenes containing Aerosol Robotic Network sites. <i>Journal of Geophysical Research</i> , 2005 , 110,		128
64	Multiangle Imaging Spectroradiometer (MISR) global aerosol optical depth validation based on 2 years of coincident Aerosol Robotic Network (AERONET) observations. <i>Journal of Geophysical Research</i> , 2005 , 110,		421
63	MISR Calibration and Implications for Low-Light-Level Aerosol Retrieval over Dark Water. <i>Journals of the Atmospheric Sciences</i> , 2005 , 62, 1032-1052	2.1	57
62	Intercomparison of satellite retrieved aerosol optical depth over ocean during the period September 1997 to December 2000. <i>Atmospheric Chemistry and Physics</i> , 2005 , 5, 1697-1719	6.8	70
61	Radiative Transfer Modeling for the CLAMS Experiment. <i>Journals of the Atmospheric Sciences</i> , 2005 , 62, 1053-1071	2.1	13
60	Suborbital Measurements of Spectral Aerosol Optical Depth and Its Variability at Subsatellite Grid Scales in Support of CLAMS 2001. <i>Journals of the Atmospheric Sciences</i> , 2005 , 62, 993-1007	2.1	43
59	EOS Terra Aerosol and Radiative Flux Validation: An Overview of the Chesapeake Lighthouse and Aircraft Measurements for Satellites (CLAMS) Experiment. <i>Journals of the Atmospheric Sciences</i> , 2005 , 62, 903-918	2.1	16
58	Using angular and spectral shape similarity constraints to improve MISR aerosol and surface retrievals over land. <i>Remote Sensing of Environment</i> , 2005 , 94, 155-171	13.2	164
57	The value of multiangle measurements for retrieving structurally and radiatively consistent properties of clouds, aerosols, and surfaces. <i>Remote Sensing of Environment</i> , 2005 , 97, 495-518	13.2	135
56	Using the PARAGON Framework to Establish an Accurate, Consistent, and Cohesive Long-Term Aerosol Record. <i>Bulletin of the American Meteorological Society</i> , 2004 , 85, 1535-1548	6.1	5
55	Scientific Objectives, Measurement Needs, and Challenges Motivating the PARAGON Aerosol Initiative. <i>Bulletin of the American Meteorological Society</i> , 2004 , 85, 1503-1510	6.1	10
54	Aerosol Data Sources and Their Roles within PARAGON. <i>Bulletin of the American Meteorological Society</i> , 2004 , 85, 1511-1522	6.1	22

53	Integrating and Interpreting Aerosol Observations and Models within the PARAGON Framework. <i>Bulletin of the American Meteorological Society</i> , 2004 , 85, 1523-1534	6.1	16
52	PARAGON: An Integrated Approach for Characterizing Aerosol Climate Impacts and Environmental Interactions. <i>Bulletin of the American Meteorological Society</i> , 2004 , 85, 1491-1502	6.1	49
51	Environmental snapshots from ACE-Asia. <i>Journal of Geophysical Research</i> , 2004 , 109,		32
50	Analysis of Multi-angle Imaging SpectroRadiometer (MISR) aerosol optical depths over greater India during winter 2001-2004. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	170
49	Refinements to MISR's radiometric calibration and implications for establishing a climate-quality aerosol observing system 2004 , 5652, 57		8
48	Coordinated airborne, spaceborne, and ground-based measurements of massive thick aerosol layers during the dry season in southern Africa. <i>Journal of Geophysical Research</i> , 2003 , 108, n/a-n/a		87
47	Exploitation of Surface Albedo Derived From the Meteosat Data to Characterize Land Surface Changes. <i>Advances in Global Change Research</i> , 2001 , 51-67	1.2	
46	Sensitivity of multiangle imaging to natural mixtures of aerosols over ocean. <i>Journal of Geophysical Research</i> , 2001 , 106, 18219-18238		174
45	Aerosol properties derived from aircraft multiangle imaging over Monterey Bay. <i>Journal of Geophysical Research</i> , 2001 , 106, 11977-11995		18
44	MISR aerosol optical depth retrievals over southern Africa during the SAFARI-2000 Dry Season Campaign. <i>Geophysical Research Letters</i> , 2001 , 28, 3127-3130	4.9	126
43	Comments on: Retrieval of aerosol properties over the ocean using multispectral and multiangle photopolarimetric measurements from the research scanning polarimeter. <i>Geophysical Research Letters</i> , 2001 , 28, 3275-3276	4.9	
42	Surface albedo retrieval from Meteosat: 1. Theory. <i>Journal of Geophysical Research</i> , 2000 , 105, 18099-18112		108
41	Surface albedo retrieval from Meteosat: 2. Applications. <i>Journal of Geophysical Research</i> , 2000 , 105, 18113-18134		34
40	What Shall We Do with the Data We are Expecting from Upcoming Earth Observation Satellites?. <i>Journal of Computational and Graphical Statistics</i> , 1999 , 8, 575-588	1.4	2
39	Aerobot measurements successfully obtained during Solo Spirit Balloon Mission. <i>Eos</i> , 1999 , 80, 153-159	1.5	2
38	What Shall We Do with the Data We Are Expecting from Upcoming Earth Observation Satellites?. <i>Journal of Computational and Graphical Statistics</i> , 1999 , 8, 575	1.4	4
37	Multi-angle Imaging SpectroRadiometer (MISR) instrument description and experiment overview. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1998 , 36, 1072-1087	8.1	721
36	Techniques for the retrieval of aerosol properties over land and ocean using multiangle imaging. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1998 , 36, 1212-1227	8.1	316

35	Sensitivity of multiangle imaging to aerosol optical depth and to pure-particle size distribution and composition over ocean. <i>Journal of Geophysical Research</i> , 1998 , 103, 32195-32213		115
34	MISR radiometric uncertainty analyses and their utilization within geophysical retrievals. <i>Metrologia</i> , 1998 , 35, 571-579	2.1	16
33	Sensitivity of multiangle remote sensing observations to aerosol sphericity. <i>Journal of Geophysical Research</i> , 1997 , 102, 16861-16870		87
32	Modeling phase functions for dustlike tropospheric aerosols using a shape mixture of randomly oriented polydisperse spheroids. <i>Journal of Geophysical Research</i> , 1997 , 102, 16831-16847		499
31	A modified linear-mixing method for calculating atmospheric path radiances of aerosol mixtures. <i>Journal of Geophysical Research</i> , 1997 , 102, 16883-16888		29
30	Temperature measurements of a Martian local dust storm. <i>Journal of Geophysical Research</i> , 1995 , 100, 5265		8
29	Monitoring Mars with the Hubble Space Telescope: 1990-1991 Observations. <i>Icarus</i> , 1994 , 109, 79-101	3.8	66
28	PLANETARY ATMOSPHERES. <i>Reviews of Geophysics</i> , 1991 , 29, 328-336	23.1	1
27	Ice haze, snow, and the Mars water cycle. <i>Journal of Geophysical Research</i> , 1990 , 95, 14677		44
26	Accumulation of sedimentary debris in the south polar region of Mars and implications for climate history. <i>Icarus</i> , 1988 , 76, 357-377	3.8	79
25	Coping with all the Earth science data. <i>Eos</i> , 1988 , 69, 609	1.5	1
24	Loss of fine-scale surface texture in Viking orbiter images and implications for the inferred distribution of Debris Mantles. <i>Icarus</i> , 1986 , 66, 22-38	3.8	13
23	The vertical structure of limb hazes in the Martian atmosphere. <i>Icarus</i> , 1986 , 68, 442-461	3.8	120
22	The evolution of CO ₂ on Mars. <i>Icarus</i> , 1985 , 62, 175-190	3.8	140
21	The spatial and seasonal distribution of Martian clouds and some meteorological implications. <i>Journal of Geophysical Research</i> , 1984 , 89, 6671		80
20	Some observational constraints on the global-scale wind systems of Mars. <i>Journal of Geophysical Research</i> , 1983 , 88, 10189		28
19	Long cloud observations on Mars and implications for boundary layer characteristics over slopes. <i>Journal of Geophysical Research</i> , 1982 , 87, 867		18
18	Deducing the age of the dense Venus atmosphere. <i>Icarus</i> , 1982 , 49, 71-85	3.8	9

17	The Martian twilight. <i>Journal of Geophysical Research</i> , 1981 , 86, 5833		17
16	Properties and effects of dust particles suspended in the Martian atmosphere. <i>Journal of Geophysical Research</i> , 1979 , 84, 2929		447
15	Properties of aerosols in the Martian atmosphere, as inferred from Viking Lander imaging data. <i>Journal of Geophysical Research</i> , 1977 , 82, 4479-4496		232
14	THE MARTIAN DUST CYCLE1017-1053		12
13	Biomass burning smoke heights over the Amazon observed from space		2
12	An investigation of methods for injecting emissions from boreal wildfires using WRF-Chem during ARCTAS		6
11	Eyjafjallajökull volcano plume particle-type characterization from space-based multi-angle imaging		1
10	Multi-decadal variations of atmospheric aerosols from 1980 to 2009: sources and regional trends		6
9	Aerosol airmass type mapping over the urban Mexico City region from space-based multi-angle imaging		1
8	Climatology of the aerosol optical depth by components from the Multiangle Imaging SpectroRadiometer (MISR) and a high-resolution chemistry transport model		1
7	Radiative forcing of the direct aerosol effect using a multi-observation approach		3
6	The Impact of MISR-derived Injection Height Initialization on Wildfire and Volcanic Plume Dispersion in the HYSPLIT Model		2
5	Introducing the 4.4 km Spatial Resolution MISR Aerosol Product		2
4	Impact of satellite viewing swath width on global and regional aerosol optical thickness statistics and trends		2
3	The sensitivity of CO and aerosol transport to the temporal and vertical distribution of North American boreal fire emissions		1
2	Spatial variation of fine particulate matter levels in Nairobi before and during the COVID-19 curfew: Implications for environmental justice. <i>Environmental Research Communications</i> ,	3.1	2
1	Scattering and absorbing aerosols in the climate system. <i>Nature Reviews Earth & Environment</i> ,	30.2	3