

Charles Ichoku

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77
papers

8,237
citations

33
h-index

81
g-index

81
ext. papers

9,128
ext. citations

5.5
avg, IF

5.44
L-index

#	Paper	IF	Citations
77	The MODIS Aerosol Algorithm, Products, and Validation. <i>Journals of the Atmospheric Sciences</i> , 2005 , 62, 947-973	2.1	2405
76	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
75	Global aerosol climatology from the MODIS satellite sensors. <i>Journal of Geophysical Research</i> , 2008 , 113,		582
74	Validation of MODIS aerosol optical depth retrieval over land. <i>Geophysical Research Letters</i> , 2002 , 29, MOD2-1	4.9	542
73	A spatio-temporal approach for global validation and analysis of MODIS aerosol products. <i>Geophysical Research Letters</i> , 2002 , 29, MOD1-1	4.9	407
72	Validation of MODIS aerosol retrieval over ocean. <i>Geophysical Research Letters</i> , 2002 , 29, MOD3-1	4.9	276
71	Projections of rapidly rising surface temperatures over Africa under low mitigation. <i>Environmental Research Letters</i> , 2015 , 10, 085004	6.2	198
70	A method to derive smoke emission rates from MODIS fire radiative energy measurements. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2005 , 43, 2636-2649	8.1	198
69	A critical examination of the residual cloud contamination and diurnal sampling effects on MODIS estimates of aerosol over ocean. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2005 , 43, 2886-2897	8.1	157
68	Analysis of the performance characteristics of the five-channel Microtops II Sun photometer for measuring aerosol optical thickness and precipitable water vapor. <i>Journal of Geophysical Research</i> , 2002 , 107, AAC 5-1		156
67	Evaluation of the Moderate-Resolution Imaging Spectroradiometer (MODIS) retrievals of dust aerosol over the ocean during PRIDE. <i>Journal of Geophysical Research</i> , 2003 , 108,		148
66	Relationships between energy release, fuel mass loss, and trace gas and aerosol emissions during laboratory biomass fires. <i>Journal of Geophysical Research</i> , 2008 , 113,		144
65	Global characterization of biomass-burning patterns using satellite measurements of fire radiative energy. <i>Remote Sensing of Environment</i> , 2008 , 112, 2950-2962	13.2	137
64	Global top-down smoke-aerosol emissions estimation using satellite fire radiative power measurements. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 6643-6667	6.8	116
63	MODIS observation of aerosols and estimation of aerosol radiative forcing over southern Africa during SAFARI 2000. <i>Journal of Geophysical Research</i> , 2003 , 108, n/a-n/a		108
62	Light scattering by dust and anthropogenic aerosol at a remote site in the Negev desert, Israel. <i>Journal of Geophysical Research</i> , 2002 , 107, AAC 3-1		108
61	A review of mixture modeling techniques for sub-pixel land cover estimation. <i>International Journal of Remote Sensing</i> , 1996 , 13, 161-186		91

60	Global aerosol remote sensing from MODIS. <i>Advances in Space Research</i> , 2004 , 34, 820-827	2.4	89
59	Fire and smoke observed from the Earth Observing System MODIS instrument--products, validation, and operational use. <i>International Journal of Remote Sensing</i> , 2003 , 24, 1765-1781	3.1	81
58	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
57	Satellite contributions to the quantitative characterization of biomass burning for climate modeling. <i>Atmospheric Research</i> , 2012 , 111, 1-28	5.4	71
56	A combined algorithm for automated drainage network extraction. <i>Water Resources Research</i> , 1992 , 28, 1293-1302	5.4	70
55	Multi-sensor Aerosol Products Sampling System (MAPSS). <i>Atmospheric Measurement Techniques</i> , 2012 , 5, 913-926	4	66
54	A sub-pixel-based calculation of fire radiative power from MODIS observations: 1. <i>Remote Sensing of Environment</i> , 2013 , 129, 262-279	13.2	64
53	Six global biomass burning emission datasets: intercomparison and application in one global aerosol model. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 969-994	6.8	58
52	Comparative analysis of daytime fire detection algorithms using AVHRR data for the 1995 fire season in Canada: Perspective for MODIS. <i>International Journal of Remote Sensing</i> , 2003 , 24, 1669-1690	3.1	49
51	Quantitative evaluation and intercomparison of morning and afternoon Moderate Resolution Imaging Spectroradiometer (MODIS) aerosol measurements from Terra and Aqua. <i>Journal of Geophysical Research</i> , 2005 , 110,		47
50	Physical and chemical characteristics of aerosols over the Negev Desert (Israel) during summer 1996. <i>Journal of Geophysical Research</i> , 2001 , 106, 4871-4890		47
49	Temporal dynamics of soil and vegetation spectral responses in a semi-arid environment. <i>International Journal of Remote Sensing</i> , 2002 , 23, 4073-4087	3.1	43
48	Sensitivity of mesoscale modeling of smoke direct radiative effect to the emission inventory: a case study in northern sub-Saharan African region. <i>Environmental Research Letters</i> , 2014 , 9, 075002	6.2	42
47	Effects of lightning and other meteorological factors on fire activity in the North American boreal forest: implications for fire weather forecasting. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 6873-6888	6.8	37
46	Signs of a negative trend in the MODIS aerosol optical depth over the Southern Balkans. <i>Atmospheric Environment</i> , 2010 , 44, 1219-1228	5.3	36
45	Estimating smoke emissions over the US Southern Great Plains using MODIS fire radiative power and aerosol observations. <i>Atmospheric Environment</i> , 2008 , 42, 2007-2022	5.3	35
44	Solar dimming and brightening over Thessaloniki, Greece, and Beijing, China. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2009 , 61, 657-665	3.3	33
43	Analysis of Visible/SWIR surface reflectance ratios for aerosol retrievals from satellite in Mexico City urban area. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 5467-5477	6.8	33

42	Interrelationships between aerosol characteristics and light scattering during late winter in an Eastern Mediterranean arid environment. <i>Journal of Geophysical Research</i> , 1999 , 104, 24371-24393		33
41	Global evaluation of the Collection 5 MODIS dark-target aerosol products over land		33
40	Long-term statistical assessment of Aqua-MODIS aerosol optical depth over coastal regions: bias characteristics and uncertainty sources. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2013 , 65, 20805	3.3	32
39	Full year cycle of desert dust spectral optical thickness and precipitable water vapor over Alexandria, Egypt. <i>Journal of Geophysical Research</i> , 2001 , 106, 18305-18316		32
38	Biomass burning, land-cover change, and the hydrological cycle in Northern sub-Saharan Africa. <i>Environmental Research Letters</i> , 2016 , 11, 095005	6.2	32
37	Transport of dust and anthropogenic aerosols across Alexandria, Egypt. <i>Annales Geophysicae</i> , 2009 , 27, 2869-2879	2	31
36	Measuring radiant emissions from entire prescribed fires with ground, airborne and satellite sensors (RxCADRE 2012). <i>International Journal of Wildland Fire</i> , 2016 , 25, 48	3.2	31
35	Historical (1700-2012) global multi-model estimates of the fire emissions from the Fire Modeling Intercomparison Project (FireMIP). <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 12545-12567	6.8	29
34	Integrated active fire retrievals and biomass burning emissions using complementary near-coincident ground, airborne and spaceborne sensor data. <i>Remote Sensing of Environment</i> , 2014 , 140, 719-730	13.2	29
33	A numerical approach to the analysis and classification of channel network patterns. <i>Water Resources Research</i> , 1994 , 30, 161-174	5.4	29
32	Coherent uncertainty analysis of aerosol measurements from multiple satellite sensors. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 6777-6805	6.8	26
31	Mesoscale modeling and satellite observation of transport and mixing of smoke and dust particles over northern sub-Saharan African region. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 12,139-12,157	4.4	25
30	Use of MODIS products to simplify and evaluate a forest fire plume dispersion model for PM10 exposure assessment. <i>Atmospheric Environment</i> , 2008 , 42, 8524-8532	5.3	24
29	Laboratory investigation of fire radiative energy and smoke aerosol emissions. <i>Journal of Geophysical Research</i> , 2008 , 113,		24
28	Segmentation of digital plane curves: A dynamic focusing approach. <i>Pattern Recognition Letters</i> , 1996 , 17, 741-750	4.7	19
27	Mitigating Satellite-Based Fire Sampling Limitations in Deriving Biomass Burning Emission Rates: Application to WRF-Chem Model Over the Northern sub-Saharan African Region. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 507-528	4.4	18
26	Taking the pulse of pyrocumulus clouds. <i>Atmospheric Environment</i> , 2012 , 52, 121-130	5.3	17
25	Detecting high and low-intensity fires in Alaska using VIIRS I-band data: An improved operational approach for high latitudes. <i>Remote Sensing of Environment</i> , 2017 , 199, 389-400	13.2	17

24	The Dark Target Algorithm for Observing the Global Aerosol System: Past, Present, and Future. <i>Remote Sensing</i> , 2020 , 12, 2900	5	16
23	Exploring the utility potential of SAR interferometric coherence images. <i>International Journal of Remote Sensing</i> , 1998 , 19, 1147-1160	3.1	13
22	The validity and utility of MODIS data for simple estimation of area burned and aerosols emitted by wildfire events. <i>International Journal of Wildland Fire</i> , 2010 , 19, 844	3.2	12
21	Satellite remote sensing of active fires: History and current status, applications and future requirements. <i>Remote Sensing of Environment</i> , 2021 , 267, 112694	13.2	10
20	Accuracy assessment of Aqua-MODIS aerosol optical depth over coastal regions: importance of quality flag and sea surface wind speed 2012 ,		8
19	Application of Fractal Techniques to the Comparative Evaluation of Two Methods of Extracting Channel Networks from Digital Elevation Models. <i>Water Resources Research</i> , 1996 , 32, 389-399	5.4	8
18	Computerized construction of geological cross sections from digital maps. <i>Computers and Geosciences</i> , 1994 , 20, 1321-1327	4.5	8
17	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
16	Correction to Quantitative evaluation and intercomparison of morning and afternoon Moderate Resolution Imaging Spectroradiometer (MODIS) aerosol measurements from Terra and Aqua <i>Journal of Geophysical Research</i> , 2005 , 110,		5
15	Global top-down smoke aerosol emissions estimation using satellite fire radiative power measurements		4
14	Historical (1700-2012) Global Multi-model Estimates of the Fire Emissions from the Fire Modeling Intercomparison Project (FireMIP) 2019 ,		2
13	Comparisons of satellite derived aerosol optical depth over a variety of sites in the southern Balkan region as an indicator of local air quality 2007 , 6745, 507		2
12	Techniques of global validation of aerosol retrievals from MODIS		2
11	Fault Traces in the Arid Arava Valley Floor, Israel, Revealed by RADARSAT Surface Roughness Classification. <i>Canadian Journal of Remote Sensing</i> , 1999 , 25, 302-310	1.8	2
10	Reply [to Comment on A combined algorithm for automated drainage network extraction] by Jean Chorowicz et al. <i>Water Resources Research</i> , 1993 , 29, 537-539	5.4	2
9	Maritime Aerosol Network optical depth measurements and comparison with satellite retrievals from various different sensors 2017 ,		2
8	Effects of lightning and other meteorological factors on fire activity in the North American boreal forest: implications for fire weather forecasting		2
7	Coherent uncertainty analysis of aerosol measurements from multiple satellite sensors		2

6	Precipitable water vapor over oceans from the Maritime Aerosol Network: Evaluation of global models and satellite products under clear sky conditions. <i>Atmospheric Research</i> , 2019 , 215, 294-304	5.4	2
5	Fire and Smoke Remote Sensing and Modeling Uncertainties. <i>Geophysical Monograph Series</i> , 2016 , 215-230		1
4	Multi-sensor Aerosol Products Sampling System (MAPSS) 2012 ,		1
3	Urban Visible/SWIR surface reflectance ratios from satellite and sun photometer measurements in Mexico City		1
2	Synthesis and review: African environmental processes and water-cycle dynamics. <i>Environmental Research Letters</i> , 2016 , 11, 120206	6.2	1
1	Current and Future Perspectives of Aerosol Research at NASA Goddard Space Flight Center. <i>Bulletin of the American Meteorological Society</i> , 2014 , 95, ES203-ES207	6.1	