

Shobha Kondragunta

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1721963/publications.pdf>

Version: 2024-02-01

105
papers

3,441
citations

136950

32
h-index

149698

56
g-index

113
all docs

113
docs citations

113
times ranked

3578
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantifying Carbon Monoxide Emissions on the Scale of Large Wildfires. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	14
2	Application of geostationary satellite and high-resolution meteorology data in estimating hourly PM2.5 levels during the Camp Fire episode in California. <i>Remote Sensing of Environment</i> , 2022, 271, 112890.	11.0	12
3	Pronounced increases in nitrogen emissions and deposition due to the historic 2020 wildfires in the western U.S.. <i>Science of the Total Environment</i> , 2022, 839, 156130.	8.0	6
4	Development and evaluation of the Aerosol Forecast Member in the National Center for Environment Prediction (NCEP)'s Global Ensemble Forecast System (GEFS-Aerosols v1). <i>Geoscientific Model Development</i> , 2022, 15, 5337-5369.	3.6	8
5	Daily and Hourly Surface PM2.5 Estimation From Satellite AOD. <i>Earth and Space Science</i> , 2021, 8, e2020EA001599.	2.6	21
6	Tracking Smoke from a Prescribed Fire and Its Impacts on Local Air Quality Using Temporally Resolved GOES-16 ABI Aerosol Optical Depth (AOD). <i>Journal of Atmospheric and Oceanic Technology</i> , 2021, 38, 963-976.	1.3	10
7	COVID-19 Induced Fingerprints of a New Normal Urban Air Quality in the United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD034797.	3.3	11
8	Evaluation and intercomparison of wildfire smoke forecasts from multiple modeling systems for the 2019 Williams Flats fire. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 14427-14469.	4.9	37
9	First retrieval of absorbing aerosol height over dark target using TROPOMI oxygen B band: Algorithm development and application for surface particulate matter estimates. <i>Remote Sensing of Environment</i> , 2021, 265, 112674.	11.0	13
10	Examining the Economic and Environmental Impacts of COVID-19 Using Earth Observation Data. <i>Remote Sensing</i> , 2021, 13, 5.	4.0	33
11	Implications of a New Normal Urban Air Quality. , 2021, , .		0
12	Dominance of Wildfires Impact on Air Quality Exceedances During the 2020 Record-Breaking Wildfire Season in the United States. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094908.	4.0	28
13	Highly anomalous fire emissions from the 2019-2020 Australian bushfires. <i>Environmental Research Communications</i> , 2021, 3, 105005.	2.3	10
14	Hourly Mapping of the Layer Height of Thick Smoke Plumes Over the Western U.S. in 2020 Severe Fire Season. <i>Frontiers in Remote Sensing</i> , 2021, 2, .	3.5	6
15	Nighttime smoke aerosol optical depth over U.S. rural areas: First retrieval from VIIRS moonlight observations. <i>Remote Sensing of Environment</i> , 2021, 267, 112717.	11.0	15
16	Improving predictability of high-ozone episodes through dynamic boundary conditions, emission refresh and chemical data assimilation during the Long Island Sound Tropospheric Ozone Study (LISTOS) field campaign. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 16531-16553.	4.9	5
17	Air Quality Applications of ABI Aerosol Products from the GOES-R Series. , 2020, , 203-217.		12
18	A preliminary evaluation of GOES-16 active fire product using Landsat-8 and VIIRS active fire data, and ground-based prescribed fire records. <i>Remote Sensing of Environment</i> , 2020, 237, 111600.	11.0	45

#	ARTICLE	IF	CITATIONS
19	Mobilization of health professions students during the COVID-19 pandemic. <i>Seminars in Perinatology</i> , 2020, 44, 151276.	2.5	15
20	Ensemble PM _{2.5} 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.	3.3	21
21	Evaluating a fire smoke simulation algorithm in the National Air Quality Forecast Capability (NAQFC) by using multiple observation data sets during the Southeast Nexus (SENEX) field campaign. <i>Geoscientific Model Development</i> , 2020, 13, 2169-2184.	3.6	4
22	Biomass Burning in Africa: An Investigation of Fire Radiative Power Missed by MODIS Using the 375 m VIIRS Active Fire Product. <i>Remote Sensing</i> , 2020, 12, 1561.	4.0	19
23	Disseminating Scientific Results in the Age of Rapid Communication. <i>Eos</i> , 2020, 101, .	0.1	1
24	An evaluation of advanced baseline imager fire radiative power based wildfire emissions using carbon monoxide observed by the Tropospheric Monitoring Instrument across the conterminous United States. <i>Environmental Research Letters</i> , 2020, 15, 094049.	5.2	15
25	Inverse modeling of fire emissions constrained by smoke plume transport using HYSPLIT dispersion model and geostationary satellite observations. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 10259-10277.	4.9	14
26	Improving GOES Advanced Baseline Imager (ABI) aerosol optical depth (AOD) retrievals using an empirical bias correction algorithm. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 5955-5975.	3.1	23
27	Estimation of biomass-burning emissions by fusing the fire radiative power retrievals from polar-orbiting and geostationary satellites across the conterminous United States. <i>Atmospheric Environment</i> , 2019, 211, 274-287.	4.1	64
28	A Geostationary Instrument Simulator for Aerosol Observing System Simulation Experiments. <i>Atmosphere</i> , 2019, 10, 2.	2.3	12
29	JPSS Atmospheric Composition Products for Environmental Monitoring and Applications. , 2019, , .		0
30	Non-Meteorological Application of New Generation Geostationary Satellites. , 2019, , .		1
31	Investigation of the Fire Radiative Energy Biomass Combustion Coefficient: A Comparison of Polar and Geostationary Satellite Retrievals Over the Conterminous United States. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 722-739.	3.0	28
32	Comparison of Fire Radiative Power Estimates From VIIRS and MODIS Observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 4545-4563.	3.3	69
33	Burned Area Comparisons Between Prescribed Burning Permits in Southeastern United States and Two Satellite-Derived Products. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 4746-4757.	3.3	25
34	Screening for snow/snowmelt in SNPP VIIRS aerosol optical depth algorithm. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 5813-5825.	3.1	3
35	The implementation of NEMS GFS Aerosol Component (NGAC) Version 2.0 for global multispecies forecasting at NOAA/NCEP "Part 1: Model descriptions. <i>Geoscientific Model Development</i> , 2018, 11, 2315-2332.	3.6	20
36	Evaluation of VIIRS dust detection algorithms over land. <i>Journal of Applied Remote Sensing</i> , 2018, 12, 1.	1.3	3

#	ARTICLE	IF	CITATIONS
37	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> , 2017, 122, 3005-3022.	3.3	48
38	NAQFC Developmental Forecast Guidance for Fine Particulate Matter (PM _{2.5}). <i>Weather and Forecasting</i> , 2017, 32, 343-360.	1.4	57
39	Exceptional events monitoring using S-NPP VIIRS aerosol products. , 2017, , .		4
40	Meteorologists Track Wildfires Using Satellite Smoke Images. <i>Eos</i> , 2017, , .	0.1	2
41	An enhanced VIIRS aerosol optical thickness (AOT) retrieval algorithm over land using a global surface reflectance ratio database. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 10,717.	3.3	47
42	Validation and expected error estimation of Suomi-NPP VIIRS aerosol optical thickness and Å...ngstrÅm exponent with AERONET. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 7139-7160.	3.3	68
43	Impact of the 2008 Global Recession on air quality over the United States: Implications for surface ozone levels from changes in NO _x emissions. <i>Geophysical Research Letters</i> , 2016, 43, 9280-9288.	4.0	25
44	Evaluation of VIIRS, GOCI, and MODIS Collection 6 AOD retrievals against ground sunphotometer observations over East Asia. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 1255-1269.	4.9	110
45	Monitoring the Impacts of Wildfires on Forest Ecosystems and Public Health in the Exo-Urban Environment Using High-Resolution Satellite Aerosol Products from the Visible Infrared Imaging Radiometer Suite (VIIRS). <i>Environmental Health Insights</i> , 2015, 9s2, EHI.S19590.	1.7	8
46	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.	5.2	51
47	Preliminary evaluation of S-NPP VIIRS aerosol optical thickness. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 3942-3962.	3.3	108
48	Dust aerosol index (DAI) algorithm for MODIS. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 4770-4792.	3.3	41
49	Interannual variation in biomass burning and fire seasonality derived from geostationary satellite data across the contiguous United States from 1995 to 2011. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014, 119, 1147-1162.	3.0	38
50	Aerosol optical depth (AOD) retrieval using simultaneous GOES-East and GOES-West reflected radiances over the western United States. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 471-486.	3.1	17
51	Suomi-NPP VIIRS aerosol algorithms and data products. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 12,673.	3.3	202
52	Near-real-time global biomass burning emissions product from geostationary satellite constellation. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	72
53	Estimation of Biomass Burned Areas Using Multiple-Satellite-Observed Active Fires. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011, 49, 4469-4482.	6.3	31
54	Use of hourly Geostationary Operational Environmental Satellite (GOES) fire emissions in a Community Multiscale Air Quality (CMAQ) model for improving surface particulate matter predictions. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	17

#	ARTICLE	IF	CITATIONS
55	Reduction of aerosol absorption in Beijing since 2007 from MODIS and AERONET. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	27
56	A multi-angle aerosol optical depth retrieval algorithm for geostationary satellite data over the United States. Atmospheric Chemistry and Physics, 2011, 11, 11977-11991.	4.9	40
57	Description and Verification of the NOAA Smoke Forecasting System: The 2007 Fire Season. Weather and Forecasting, 2009, 24, 361-378.	1.4	123
58	Satellite Remote Sensing and Mesoscale Modeling of the 2007 Georgia/Florida Fires. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2009, 2, 163-175.	4.9	18
59	Applications of the Three-Dimensional Air Quality System to Western U.S. Air Quality: IDEA, Smog Blog, Smog Stories, AirQuest, and the Remote Sensing Information Gateway. Journal of the Air and Waste Management Association, 2009, 59, 980-989.	1.9	25
60	Comparison of GOES and MODIS Aerosol Optical Depth (AOD) to Aerosol Robotic Network (AERONET) AOD and IMPROVE PM _{2.5} Mass at Bondville, Illinois. Journal of the Air and Waste Management Association, 2009, 59, 1082-1091.	1.9	61
61	Development of IDEA product for GOES-R aerosol data. Proceedings of SPIE, 2009, , .	0.8	2
62	Remote sensing of aerosol and radiation from geostationary satellites. Advances in Space Research, 2008, 41, 1882-1893.	2.6	51
63	Temporal and spatial variability in biomass burned areas across the USA derived from the GOES fire product. Remote Sensing of Environment, 2008, 112, 2886-2897.	11.0	64
64	Near real time monitoring of biomass burning particulate emissions (PM _{2.5}) across contiguous United States using multiple satellite instruments. Atmospheric Environment, 2008, 42, 6959-6972.	4.1	69
65	Spatiotemporal Associations between GOES Aerosol Optical Depth Retrievals and Ground-Level PM _{2.5} . Environmental Science & Technology, 2008, 42, 5800-5806.	10.0	139
66	Vegetation burned areas derived from multiple satellite-based active fires. , 2008, , .		2
67	Air Quality Forecast Verification Using Satellite Data. Journal of Applied Meteorology and Climatology, 2008, 47, 425-442.	1.5	33
68	Intercomparison of near-real-time biomass burning emissions estimates constrained by satellite fire data. Journal of Applied Remote Sensing, 2008, 2, 021504.	1.3	56
69	The impact of satellite-derived biomass burning emission estimates on air quality. Proceedings of SPIE, 2008, , .	0.8	0
70	Use of multiple satellite sensors in NOAA's operational near real-time fire and smoke detection and characterization program. Proceedings of SPIE, 2008, , .	0.8	7
71	Toward a US National Air Quality Forecast Capability: Current and Planned Capabilities. NATO Security Through Science Series C: Environmental Security, 2008, , 226-234.	0.1	5
72	Chapter 5.2 Aerosol forecast over the Great Lakes for a February 2005 episode. Developments in Environmental Science, 2007, , 492-502.	0.5	0

#	ARTICLE	IF	CITATIONS
73	GOES Aerosol/Smoke Product (GASP) over North America: Comparisons to AERONET and MODIS observations. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	82
74	Development and analysis of a 12-year daily 1-km forest fire dataset across North America from NOAA/AVHRR data. <i>Remote Sensing of Environment</i> , 2007, 108, 198-208.	11.0	56
75	Estimating forest biomass in the USA using generalized allometric models and MODIS land products. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	79
76	Analysis of the relationship between MODIS aerosol optical depth and PM 2.5 in the summertime US. , 2006, , .		14
77	Correlation between aerosol optical depth derived from CIMEL sunphotometer and surface particulate concentration in Northern and Southern Taiwan. , 2006, , .		1
78	3D-AQS: a three-dimensional air quality system. , 2006, , .		2
79	Monitoring fire and smoke emissions with the hazard mapping system. , 2006, 6412, 71.		2
80	A hybrid thermal video and FTIR spectrometer system for rapidly locating and characterizing gas leaks. , 2006, , .		1
81	NOAA-ISRO joint science projects on Earth observation system science, technology, and applications for societal benefits. , 2006, , .		0
82	Near-infrared fiber optics gas sensor for remote sensing of CH 4 gas in coal mines. , 2006, , .		1
83	Aerosol absorption characteristics over 23 AERONET locations. , 2006, 6299, 51.		0
84	Estimation of dust loading and height using MODIS, AIRS, and MAERI data. , 2006, 6299, 59.		0
85	Aerosol lidar and MODIS satellite comparisons for future aerosol loading forecast. , 2006, , .		0
86	Tropospheric infrared mapping spectrometers (TIMS) for air quality measurements. , 2006, , .		1
87	Minimum harmonic detection order for Rayleigh resolution in modulation spectroscopy. , 2006, , .		0
88	Influence of sanddust activities in the Hexi Corridor on the PM 10 concentration in Lanzhou and its assessment. , 2006, 6299, 148.		0
89	Retrieval of physical properties of particulate emission from animal feeding operations using three-wavelength elastic lidar measurements. , 2006, , .		7
90	Airborne hyperspectral data collection with the UMBC VNIR sensor. , 2006, 6299, 155.		0

#	ARTICLE	IF	CITATIONS
91	Application of lidar in the observation of atmospheric particulate pollutants in Taipei. , 2006, , .		1
92	Data assimilation of carbon monoxide in the troposphere. , 2006, 6299, 84.		0
93	Dust transport model validation using satellite- and ground-based methods in the southwestern United States. , 2006, 6299, 96.		8
94	Hardware and software combined optical Earth observation atmospheric correction. , 2006, 6299, 163.		0
95	Application of satellite data for three-dimensional monitoring of PM 2.5 formation and transport in San Joaquin Valley, California. , 2006, , .		1
96	Vertical Structure of the Anomalous 2002 Antarctic Ozone Hole. Journals of the Atmospheric Sciences, 2005, 62, 801-811.	1.7	18
97	Toward aerosol optical depth retrievals over land from GOES visible radiances: determining surface reflectance. International Journal of Remote Sensing, 2005, 26, 4097-4116.	2.9	105
98	A cohesive total ozone data set from the SBUV(/2) satellite system. Journal of Geophysical Research, 2002, 107, ACH 11-1-ACH 11-8.	3.3	40
99	Regional air pollution and its radiative forcing: Studies with a single-column chemical and radiation transport model. Journal of Geophysical Research, 2001, 106, 28751-28770.	3.3	17
100	Total ozone determinations from National Oceanic and Atmospheric Administration operational solar backscattered ultraviolet 2 instrument observations: An update. Journal of Geophysical Research, 2001, 106, 17471-17478.	3.3	6
101	The Impact of Aerosols on Solar Ultraviolet Radiation and Photochemical Smog. Science, 1997, 278, 827-830.	12.6	578
102	Potential ozone production following convective transport based on future emission scenarios. Atmospheric Environment, 1996, 30, 667-672.	4.1	3
103	Stratosphere-troposphere exchange in a midlatitude mesoscale convective complex: 2. Numerical simulations. Journal of Geophysical Research, 1996, 101, 6837-6851.	3.3	59
104	Comparison of octadecyl-bonded alumina and silica for reversed-phase high-performance liquid chromatography. Journal of Chromatography A, 1990, 505, 307-318.	3.7	37
105	Comparison of Octadecyl-Bonded Alumina and Other Stationary Phases for Lipophilicity Estimation by High Performance Liquid Chromatography. Journal of Liquid Chromatography and Related Technologies, 1990, 13, 3111-3131.	1.0	23