

Robert C Levy

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.

135
papers

14,977
citations

48
h-index

122
g-index

169
ext. papers

17,103
ext. citations

5.7
avg, IF

6.29
L-index

#	Paper	IF	Citations
135	New seasonal pattern of pollution emerges from changing North American wildfires.. <i>Nature Communications</i> , 2022 , 13, 2043	17.4	2
134	Constraining Aerosol Phase Function Using Dual-View Geostationary Satellites. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2021JD035209	4.4	
133	Monthly Global Estimates of Fine Particulate Matter and Their Uncertainty. <i>Environmental Science & Technology</i> , 2021 , 55, 15287-15300	10.3	16
132	Air pollution trends measured from Terra: CO and AOD over industrial, fire-prone, and background regions. <i>Remote Sensing of Environment</i> , 2021 , 256, 112275	13.2	15
131	A Dark Target research aerosol algorithm for MODIS observations over eastern China: increasing coverage while maintaining accuracy at high aerosol loading. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 3449-3468	4	2
130	Analysis of simultaneous aerosol and ocean glint retrieval using multi-angle observations. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 3233-3252	4	0
129	Effects of COVID-19 lockdowns on fine particulate matter concentrations. <i>Science Advances</i> , 2021 , 7,	14.3	17
128	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> , 2021 , 1-57	6.1	2
127	Observation and modeling of the historic Godzilla African dust intrusion into the Caribbean Basin and the southern US in June 2020. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 12359-12383	6.8	3
126	First Retrieval of AOD at Fine Resolution Over Shallow and Turbid Coastal Waters From MODIS. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL094344	4.9	1
125	Air pollution scenario over Pakistan: Characterization and ranking of extremely polluted cities using long-term concentrations of aerosols and trace gases. <i>Remote Sensing of Environment</i> , 2021 , 264, 112617	13.2	21
124	Dust Aerosol Retrieval Over the Oceans With the MODIS/VIIRS Dark-Target Algorithm: 1. Dust Detection. <i>Earth and Space Science</i> , 2020 , 7, e2020EA001221	3.1	11
123	High-Resolution Gridded Level 3 Aerosol Optical Depth Data from MODIS. <i>Remote Sensing</i> , 2020 , 12, 2847	5	10
122	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
121	An AeroCom/AeroSat study: Intercomparison of Satellite AOD Datasets for Aerosol Model Evaluation 2020 ,		1
120	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
119	Interannual variability and trends of combustion aerosol and dust in major continental outflows revealed by MODIS retrievals and CAM5 simulations during 2003-2017. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 139-161	6.8	15

118	Continuing the MODIS Dark Target Aerosol Time Series with VIIRS. <i>Remote Sensing</i> , 2020 , 12, 308	5	19
117	An AeroCom/AeroSat study: intercomparison of satellite AOD datasets for aerosol model evaluation. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 12431-12457	6.8	14
116	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> , 2020 , 12, 3573-3620	10.5	30
115	Dust Aerosol Retrieval Over the Oceans With the MODIS/VIIRS Dark Target Algorithm: 2. Nonspherical Dust Model. <i>Earth and Space Science</i> , 2020 , 7, e2020EA001222	3.1	5
114	The Dark Target Algorithm for Observing the Global Aerosol System: Past, Present, and Future. <i>Remote Sensing</i> , 2020 , 12, 2900	5	16
113	Retrievals of Aerosol Size Distribution, Spherical Fraction, and Complex Refractive Index From Airborne In Situ Angular Light Scattering and Absorption Measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 7997-8024	4.4	16
112	Characterizing the 2015 Indonesia fire event using modified MODIS aerosol retrievals. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 259-274	6.8	29
111	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> , 2019 , 124, 4722-4740	4.4	21
110	Exploring aerosols near clouds with high-spatial-resolution aircraft remote sensing during SEACRS. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 2148-2173	4.4	10
109	Merging regional and global AOD records from 15 available satellite products 2019 ,		1
108	Retrieving Aerosol Characteristics From the PACE Mission, Part 2: Multi-Angle and Polarimetry. <i>Frontiers in Environmental Science</i> , 2019 , 7,	4.8	19
107	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
106	A Spatial-Temporal Extreme Precipitation Database from GPM IMERG. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 10344-10363	4.4	10
105	Retrieving Aerosol Characteristics From the PACE Mission, Part 1: Ocean Color Instrument. <i>Frontiers in Earth Science</i> , 2019 , 7,	3.5	14
104	Applying the Dark Target aerosol algorithm with Advanced Himawari Imager observations during the KORUS-AQ field campaign. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 6557-6577	4	22
103	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> , 2018 , 123, 5560-5587	4.4	33
102	Characterizing the 2015 Indonesia Fire Event Using Modified MODIS Aerosol Retrievals 2018 ,		2
101	Correcting for trace gas absorption when retrieving aerosol optical depth from satellite observations of reflected shortwave radiation. <i>Atmospheric Measurement Techniques</i> , 2018 , 11, 3205-3219	4.9	21

100	Exploring systematic offsets between aerosol products from the two MODIS sensors. <i>Atmospheric Measurement Techniques</i> , 2018 , 11, 4073-4092	4	49
99	Validation of MODIS 3 km land aerosol optical depth from NASA's EOS Terra and Aqua missions. <i>Atmospheric Measurement Techniques</i> , 2018 , 11, 3145-3159	4	67
98	Impact of California Fires on Local and Regional Air Quality: The Role of a Low-Cost Sensor Network and Satellite Observations. <i>GeoHealth</i> , 2018 , 2, 172-181	5	63
97	Bayesian aerosol retrieval algorithm for MODIS AOD retrieval over land. <i>Atmospheric Measurement Techniques</i> , 2018 , 11, 1529-1547	4	14
96	Retrieval of aerosol optical properties using MERIS observations: Algorithm and some first results. <i>Remote Sensing of Environment</i> , 2017 , 197, 125-140	13.2	37
95	Development of an operational land water mask for MODIS Collection 6, and influence on downstream data products. <i>International Journal of Digital Earth</i> , 2017 , 10, 207-218	3.9	23
94	Developing and diagnosing climate change indicators of regional aerosol optical properties. <i>Scientific Reports</i> , 2017 , 7, 18093	4.9	12
93	Evaluation of aerosol optical depth and aerosol models from VIIRS retrieval algorithms over North China Plain. <i>Remote Sensing</i> , 2017 , 9,	5	21
92	MODIS Retrieval of Aerosol Optical Depth over Turbid Coastal Water. <i>Remote Sensing</i> , 2017 , 9, 595	5	22
91	An Evaluation of MODIS-Retrieved Aerosol Optical Depth over a Mountainous AERONET Site in the Southeastern US. <i>Aerosol and Air Quality Research</i> , 2017 , 16, 3243-3255	4.6	6
90	Retrieval of aerosol optical properties using MERIS observations: Algorithm and some first results. <i>Remote Sensing of Environment</i> , 2017 , 197, 125-140	13.2	12
89	Multi-sensor cloud and aerosol retrieval simulator and remote sensing from model parameters □ Part 2: Aerosols. <i>Geoscientific Model Development</i> , 2016 , 9, 2377-2389	6.3	5
88	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	6.8	81
87	Spatiotemporal variability and contribution of different aerosol types to the Aerosol Optical Depth over the Eastern Mediterranean. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 13853-13884	6.8	57
86	Testing the Two-Layer Model for Correcting Near Cloud Reflectance Enhancement Using LES/SHDOM Simulated Radiances. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 9661-9674	4.4	3
85	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
84	New Statistical Model for Variability of Aerosol Optical Thickness: Theory and Application to MODIS Data over Ocean. <i>Journals of the Atmospheric Sciences</i> , 2016 , 73, 821-837	2.1	8
83	Spatiotemporal variability and contribution of different aerosol types to the Aerosol Optical Depth over the Eastern Mediterranean 2016 ,		3

82	A surface reflectance scheme for retrieving aerosol optical depth over urban surfaces in MODIS Dark Target retrieval algorithm. <i>Atmospheric Measurement Techniques</i> , 2016 , 9, 3293-3308	4	95
81	Satellite-Based Spatiotemporal Trends in PM _{2.5} Concentrations: China, 2004-2013. <i>Environmental Health Perspectives</i> , 2016 , 124, 184-92	8.4	464
80	Indonesian fire activity and smoke pollution in 2015 show persistent nonlinear sensitivity to El Niño-induced drought. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 9204-9	11.5	178
79	Spatiotemporal coherence of mean and extreme aerosol particle events over eastern North America as observed from satellite. <i>Atmospheric Environment</i> , 2015 , 112, 126-135	5.3	16
78	An assessment of the quality of aerosol retrievals over the Red Sea and evaluation of the climatological cloud-free dust direct radiative effect in the region. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 10,862-10,878	4.4	23
77	Adaption of the MODIS aerosol retrieval algorithm using airborne spectral surface reflectance measurements over urban areas: a case study. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 5237-5249 ⁴		7
76	Towards a long-term global aerosol optical depth record: applying a consistent aerosol retrieval algorithm to MODIS and VIIRS-observed reflectance. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 4083-4110 ⁷⁸		
75	MODIS Collection 6 aerosol products: Comparison between Aqua's e-Deep Blue, Dark Target, and Emerged data sets, and usage recommendations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 13,965-13,989	4.4	377
74	Comparison of MODIS 3 km and 10 km resolution aerosol optical depth retrievals over land with airborne sunphotometer measurements during ARCTAS summer 2008. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 2015-2038	6.8	28
73	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
72	Scientific impact of MODIS C5 calibration degradation and C6+ improvements. <i>Atmospheric Measurement Techniques</i> , 2014 , 7, 4353-4365	4	151
71	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
70	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	
69	Science impact of MODIS C5 calibration degradation and C6+ improvements 2014 ,		8
68	Improvement of MODIS aerosol retrievals near clouds. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 9168-9181	4.4	16
67	Classification of dust days by satellite remotely sensed aerosol products. <i>International Journal of Remote Sensing</i> , 2013 , 34, 2672-2688	3.1	21
66	Remote sensing of surface visibility from space: A look at the United States East Coast. <i>Atmospheric Environment</i> , 2013 , 81, 136-147	5.3	48
65	Growing up MODIS: Towards a mature aerosol climate data record 2013 ,		1

64	Correction of MODIS aerosol retrieval for 3D radiative effects in broken cloud fields 2013 ,		2
63	MODIS 3 km aerosol product: algorithm and global perspective. <i>Atmospheric Measurement Techniques</i> , 2013 , 6, 1829-1844	4	237
62	MODIS 3 km aerosol product: algorithm and global perspective 2013 ,		32
61	The Collection 6 MODIS aerosol products over land and ocean. <i>Atmospheric Measurement Techniques</i> , 2013 , 6, 2989-3034	4	1202
60	MODIS 3 km aerosol product: applications over land in an urban/suburban region 2013 ,		6
59	The Collection 6 MODIS aerosol products over land and ocean 2013 ,		69
58	Optimal estimation for global ground-level fine particulate matter concentrations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 5621-5636	4.4	97
57	Global bias adjustment for MODIS aerosol optical thickness using neural network. <i>Journal of Applied Remote Sensing</i> , 2013 , 7, 073514	1.4	10
56	MODIS 3 km aerosol product: applications over land in an urban/suburban region. <i>Atmospheric Measurement Techniques</i> , 2013 , 6, 1747-1759	4	117
55	Evaluation and Wind Speed Dependence of MODIS Aerosol Retrievals Over Open Ocean. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2012 , 50, 429-435	8.1	25
54	Impact of sensor degradation on the MODIS NDVI time series. <i>Remote Sensing of Environment</i> , 2012 , 119, 55-61	13.2	144
53	Aerosol daytime variations over North and South America derived from multiyear AERONET measurements. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		20
52	Atmospheric chemistry over southern Africa. <i>Eos</i> , 2012 , 93, 110-110	1.5	0
51	Implications of satellite swath width on global aerosol optical thickness statistics 2012 ,		3
50	Retrieving aerosol in a cloudy environment: aerosol availability as a function of spatial and temporal resolution 2012 ,		2
49	Retrieving aerosol in a cloudy environment: aerosol product availability as a function of spatial resolution. <i>Atmospheric Measurement Techniques</i> , 2012 , 5, 1823-1840	4	42
48	Glacial flour dust storms in the Gulf of Alaska: Hydrologic and meteorological controls and their importance as a source of bioavailable iron. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	108
47	Multiangle implementation of atmospheric correction (MAIAC): 2. Aerosol algorithm. <i>Journal of Geophysical Research</i> , 2011 , 116,		218

46	Evaluating the assumptions of surface reflectance and aerosol type selection within the MODIS aerosol retrieval over land: the problem of dust type selection. <i>Atmospheric Measurement Techniques</i> , 2011 , 4, 201-214	4	31
45	NASA A-Train and Terra observations of the 2010 Russian wildfires. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 9287-9301	6.8	88
44	Satellite-based estimates of ground-level fine particulate matter during extreme events: A case study of the Moscow fires in 2010. <i>Atmospheric Environment</i> , 2011 , 45, 6225-6232	5.3	129
43	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
42	A Hybrid Approach for Predicting PM 2.5 Exposure: van Donkelaar et al. Respond. <i>Environmental Health Perspectives</i> , 2010 , 118,	8.4	3
41	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
40	The inter-comparison of major satellite aerosol retrieval algorithms using simulated intensity and polarization characteristics of reflected light. <i>Atmospheric Measurement Techniques</i> , 2010 , 3, 909-932	4	114
39	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
38	Improved retrieval of aerosol size-resolved properties from moderate resolution imaging spectroradiometer over India: Role of aerosol model and surface reflectance. <i>Journal of Geophysical Research</i> , 2010 , 115,		25
37	Temporal trend in anthropogenic sulfur aerosol transport from central and eastern Europe to Israel. <i>Journal of Geophysical Research</i> , 2009 , 114,		26
36	The dark-land MODIS collection 5 aerosol retrieval: Algorithm development and product evaluation 2009 , 19-68		11
35	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2009 , 47, 4095-4114	8.1	225
34	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
33	Testing aerosol properties in MODIS Collection 4 and 5 using airborne sunphotometer observations in INTEX-B/MILAGRO. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 8159-8172	6.8	33
32	Global aerosol climatology from the MODIS satellite sensors. <i>Journal of Geophysical Research</i> , 2008 , 113,		582
31	Radiative transfer codes for atmospheric correction and aerosol retrieval: intercomparison study. <i>Applied Optics</i> , 2008 , 47, 2215-26	1.7	90
30	Second-generation operational algorithm: Retrieval of aerosol properties over land from inversion of Moderate Resolution Imaging Spectroradiometer spectral reflectance. <i>Journal of Geophysical Research</i> , 2007 , 112,		859
29	Global aerosol optical properties and application to Moderate Resolution Imaging Spectroradiometer aerosol retrieval over land. <i>Journal of Geophysical Research</i> , 2007 , 112,		323

28	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
27	Evaluation of the Moderate Resolution Imaging Spectroradiometer aerosol products at two Aerosol Robotic Network stations in China. <i>Journal of Geophysical Research</i> , 2007 , 112,		77
26	Remote Sensing of Spectral Aerosol Properties: A Classroom Experience. <i>Bulletin of the American Meteorological Society</i> , 2007 , 88, 25-30	6.1	9
25	Smoke over haze: Comparative analysis of satellite, surface radiometer, and airborne in situ measurements of aerosol optical properties and radiative forcing over the eastern United States. <i>Journal of Geophysical Research</i> , 2005 , 110,		7
24	Evaluation of the MODIS Aerosol Retrievals over Ocean and Land during CLAMS. <i>Journals of the Atmospheric Sciences</i> , 2005 , 62, 974-992	2.1	161
23	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
22	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
21	The MODIS Aerosol Algorithm, Products, and Validation. <i>Journals of the Atmospheric Sciences</i> , 2005 , 62, 947-973	2.1	2405
20	Global aerosol remote sensing from MODIS. <i>Advances in Space Research</i> , 2004 , 34, 820-827	2.4	89
19	Aerosol distribution in the Northern Hemisphere during ACE-Asia: Results from global model, satellite observations, and Sun photometer measurements. <i>Journal of Geophysical Research</i> , 2004 , 109,		142
18	Effects of neglecting polarization on the MODIS aerosol retrieval over land. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2004 , 42, 2576-2583	8.1	47
17	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
16	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
15	Airborne Sun photometer measurements of aerosol optical depth and columnar water vapor during the Puerto Rico Dust Experiment and comparison with land, aircraft, and satellite measurements. <i>Journal of Geophysical Research</i> , 2003 , 108,		33
14	Saharan dust transport to the Caribbean during PRIDE: 2. Transport, vertical profiles, and deposition in simulations of in situ and remote sensing observations. <i>Journal of Geophysical Research</i> , 2003 , 108,		61
13	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
12	Validation of MODIS aerosol retrieval over ocean. <i>Geophysical Research Letters</i> , 2002 , 29, MOD3-1	4.9	276
11	MODIS Cloud screening for remote sensing of aerosols over oceans using spatial variability. <i>Geophysical Research Letters</i> , 2002 , 29, MOD4-1	4.9	251

10	Global evaluation of the Collection 5 MODIS dark-target aerosol products over land	33
9	NASA A-Train and Terra observations of the 2010 Russian wildfires	5
8	Comparison of MODIS 3 km and 10 km resolution aerosol optical depth retrievals over land with airborne sunphotometer measurements during ARCTAS summer 2008	2
7	Multi-decadal variations of atmospheric aerosols from 1980 to 2009: sources and regional trends	6
6	Evaluation of VIIRS, GOCI, and MODIS Collection 6 AOD retrievals against ground sunphotometer measurements over East Asia	4
5	Testing aerosol properties in MODIS (MOD04/MYD04) Collection 4 and 5 using airborne sunphotometer observations in INTEX-B/MILAGRO	1
4	The inter-comparison of major satellite aerosol retrieval algorithms using simulated intensity and polarization characteristics of reflected light	7
3	Evaluating the assumptions of surface reflectance and aerosol type selection within the MODIS aerosol retrieval over land: the problem of dust type selection	2
2	Impact of satellite viewing swath width on global and regional aerosol optical thickness statistics and trends	2
1	Towards a long-term global aerosol optical depth record: applying a consistent aerosol retrieval algorithm to MODIS and VIIRS-observed reflectance	3