

# Thomas Eck

## List of Publications by Year in descending order

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57  
papers

16,290  
citations

57758

44  
h-index

161849

54  
g-index

66  
all docs

66  
docs citations

66  
times ranked

7888  
citing authors

#	ARTICLE	IF	CITATIONS
1	AERONET Remotely Sensed Measurements and Retrievals of Biomass Burning Aerosol Optical Properties During the 2015 Indonesian Burning Season. Journal of Geophysical Research D: Atmospheres, 2019, 124, 4722-4740.	3.3	40
2	Observations of the Interaction and Transport of Fine Mode Aerosols With Cloud and/or Fog in Northeast Asia From Aerosol Robotic Network and Satellite Remote Sensing. Journal of Geophysical Research D: Atmospheres, 2018, 123, 5560-5587.	3.3	49
3	Observation-Based Study on Aerosol Optical Depth and Particle Size in Partly Cloudy Regions. Journal of Geophysical Research D: Atmospheres, 2017, 122, 10013-10024.	3.3	11
4	Remote sensing of soot carbon – Part 2: Understanding the absorption Å...ngstrÅm exponent. Atmospheric Chemistry and Physics, 2016, 16, 1587-1602.	4.9	60
5	Aerosol optical properties derived from the DRAGON-NE Asia campaign, and implications for a single-channel algorithm to retrieve aerosol optical depth in spring from Meteorological Imager (MI) on-board the Communication, Ocean, and Meteorological Satellite (COMS). Atmospheric Chemistry and Physics, 2016, 16, 1789-1808.	4.9	29
6	A miniature scanning sun photometer for vertical profiles and mobile platforms. Aerosol Science and Technology, 2016, 50, 11-16.	3.1	5
7	Development towards a global operational aerosol consensus: basic climatological characteristics of the International Cooperative for Aerosol Prediction Multi-Model Ensemble (ICAP-MME). Atmospheric Chemistry and Physics, 2015, 15, 335-362.	4.9	76
8	Intercomparison of aerosol single-scattering albedo derived from AERONET surface radiometers and LARGE in situ aircraft profiles during the 2011 DRAGON-MD and DISCOVER-AQ experiments. Journal of Geophysical Research D: Atmospheres, 2014, 119, 7439-7452.	3.3	37
9	Verification and application of the extended spectral deconvolution algorithm (SDA+) methodology to estimate aerosol fine and coarse mode extinction coefficients in the marine boundary layer. Atmospheric Measurement Techniques, 2014, 7, 3399-3412.	3.1	25
10	Current and Future Perspectives of Aerosol Research at NASA Goddard Space Flight Center. Bulletin of the American Meteorological Society, 2014, 95, ES203-ES207.	3.3	0
11	Latitudinal variation of aerosol properties from Indo-Gangetic Plain to central Himalayan foothills during TIGERZ campaign. Journal of Geophysical Research D: Atmospheres, 2014, 119, 4750-4769.	3.3	52
12	AERONET-based models of smoke-dominated aerosol near source regions and transported over oceans, and implications for satellite retrievals of aerosol optical depth. Atmospheric Chemistry and Physics, 2014, 14, 11493-11523.	4.9	75
13	Observations of rapid aerosol optical depth enhancements in the vicinity of polluted cumulus clouds. Atmospheric Chemistry and Physics, 2014, 14, 11633-11656.	4.9	58
14	New approach to monitor transboundary particulate pollution over Northeast Asia. Atmospheric Chemistry and Physics, 2014, 14, 659-674.	4.9	66
15	Influence of observed diurnal cycles of aerosol optical depth on aerosol direct radiative effect. Atmospheric Chemistry and Physics, 2013, 13, 7895-7901.	4.9	32
16	A seasonal trend of single scattering albedo in southern African biomass-burning particles: Implications for satellite products and estimates of emissions for the world's largest biomass-burning source. Journal of Geophysical Research D: Atmospheres, 2013, 118, 6414-6432.	3.3	99
17	Fog- and cloud-induced aerosol modification observed by the Aerosol Robotic Network (AERONET). Journal of Geophysical Research, 2012, 117, .	3.3	99
18	An analysis of AERONET aerosol absorption properties and classifications representative of aerosol source regions. Journal of Geophysical Research, 2012, 117, .	3.3	311

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19	Dust optical properties over North Africa and Arabian Peninsula derived from the AERONET dataset. Atmospheric Chemistry and Physics, 2011, 11, 10733-10741.	4.9	112
20	A critical examination of spatial biases between MODIS and MISR aerosol products – application for potential AERONET deployment. Atmospheric Measurement Techniques, 2011, 4, 2823-2836.	3.1	93
21	Maritime aerosol network as a component of AERONET – first results and comparison with global aerosol models and satellite retrievals. Atmospheric Measurement Techniques, 2011, 4, 583-597.	3.1	152
22	Global evaluation of the Collection 5 MODIS dark-target aerosol products over land. Atmospheric Chemistry and Physics, 2010, 10, 10399-10420.	4.9	1,060
23	Pan-Arctic sunphotometry during the ARCTAS campaign of April 2008. Geophysical Research Letters, 2010, 37, .	4.0	31
24	Climatological aspects of the optical properties of fine/coarse mode aerosol mixtures. Journal of Geophysical Research, 2010, 115, .	3.3	325
25	Climatological aspects of the optical properties of fine/coarse mode aerosol mixtures. , 2010, .		1
26	Light absorption by pollution, dust, and biomass burning aerosols: a global model study and evaluation with AERONET measurements. Annales Geophysicae, 2009, 27, 3439-3464.	1.6	214
27	Optical properties of boreal region biomass burning aerosols in central Alaska and seasonal variation of aerosol optical depth at an Arctic coastal site. Journal of Geophysical Research, 2009, 114, .	3.3	123
28	Spatial and temporal variability of column-integrated aerosol optical properties in the southern Arabian Gulf and United Arab Emirates in summer. Journal of Geophysical Research, 2008, 113, .	3.3	119
29	Coarse mode optical information retrievable using ultraviolet to short-wave infrared Sun photometry: Application to United Arab Emirates Unified Aerosol Experiment data. Journal of Geophysical Research, 2008, 113, .	3.3	23
30	Characterization of the optical properties of atmospheric aerosols in Amazonia from long-term AERONET monitoring (1993–1995 and 1999–2006). Journal of Geophysical Research, 2008, 113, .	3.3	80
31	Validation of AERONET estimates of atmospheric solar fluxes and aerosol radiative forcing by ground-based broadband measurements. Journal of Geophysical Research, 2008, 113, .	3.3	100
32	Classification of aerosol properties derived from AERONET direct sun data. Atmospheric Chemistry and Physics, 2007, 7, 453-458.	4.9	215
33	A synthesis of single scattering albedo of biomass burning aerosol over southern Africa during SAFARI 2000. Geophysical Research Letters, 2007, 34, .	4.0	64
34	Effect of smoke and clouds on the transmissivity of photosynthetically active radiation inside the canopy. Atmospheric Chemistry and Physics, 2006, 6, 1645-1656.	4.9	54
35	Aeronet's Version 2.0 quality assurance criteria. , 2006, 6408, 134.		179
36	A review of biomass burning emissions part II: intensive physical properties of biomass burning particles. Atmospheric Chemistry and Physics, 2005, 5, 799-825.	4.9	1,111

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37	A review of biomass burning emissions part III: intensive optical properties of biomass burning particles. Atmospheric Chemistry and Physics, 2005, 5, 827-849.	4.9	484
38	The MODIS Aerosol Algorithm, Products, and Validation. Journals of the Atmospheric Sciences, 2005, 62, 947-973.	1.7	2,866
39	Robust optical features of fine mode size distributions: Application to the Québec smoke event of 2002. Journal of Geophysical Research, 2005, 110, .	3.3	28
40	Columnar aerosol optical properties at AERONET sites in central eastern Asia and aerosol transport to the tropical mid-Pacific. Journal of Geophysical Research, 2005, 110, n/a-n/a.	3.3	377
41	Comparison of Moderate Resolution Imaging Spectroradiometer (MODIS) and Aerosol Robotic Network (AERONET) remote-sensing retrievals of aerosol fine mode fraction over ocean. Journal of Geophysical Research, 2005, 110, .	3.3	123
42	Variability of biomass burning aerosol optical characteristics in southern Africa during the SAFARI 2000 dry season campaign and a comparison of single scattering albedo estimates from radiometric measurements. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	158
43	Maritime component in aerosol optical models derived from Aerosol Robotic Network data. Journal of Geophysical Research, 2003, 108, AAC 14-1.	3.3	115
44	Spectral discrimination of coarse and fine mode optical depth. Journal of Geophysical Research, 2003, 108, .	3.3	541
45	High aerosol optical depth biomass burning events: A comparison of optical properties for different source regions. Geophysical Research Letters, 2003, 30, .	4.0	179
46	Aerosol Radiative Impact on Spectral Solar Flux at the Surface, Derived from Principal-Plane Sky Measurements. Journals of the Atmospheric Sciences, 2002, 59, 635-646.	1.7	60
47	An emerging ground-based aerosol climatology: Aerosol optical depth from AERONET. Journal of Geophysical Research, 2001, 106, 12067-12097.	3.3	1,737
48	Bimodal size distribution influences on the variation of Angstrom derivatives in spectral and optical depth space. Journal of Geophysical Research, 2001, 106, 9787-9806.	3.3	205
49	Characterization of the optical properties of biomass burning aerosols in Zambia during the 1997 ZIBBEE field campaign. Journal of Geophysical Research, 2001, 106, 3425-3448.	3.3	207
50	Accuracy assessments of aerosol optical properties retrieved from Aerosol Robotic Network (AERONET) Sun and sky radiance measurements. Journal of Geophysical Research, 2000, 105, 9791-9806.	3.3	1,532
51	Relationship between column aerosol optical thickness and in situ ground based dust concentrations over Barbados. Geophysical Research Letters, 2000, 27, 1643-1646.	4.0	77
52	The lognormal distribution as a reference for reporting aerosol optical depth statistics; Empirical tests using multi-year, multi-site AERONET Sunphotometer data. Geophysical Research Letters, 2000, 27, 3333-3336.	4.0	141
53	Wavelength dependence of the optical depth of biomass burning, urban, and desert dust aerosols. Journal of Geophysical Research, 1999, 104, 31333-31349.	3.3	1,737
54	Detection of biomass burning smoke from TOMS measurements. Geophysical Research Letters, 1996, 23, 745-748.	4.0	195

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55	Effect of dry-season biomass burning on Amazon basin aerosol concentrations and optical properties, 1992-1994. Journal of Geophysical Research, 1996, 101, 19465-19481.	3.3	91
56	Satellite estimation of spectral UVB irradiance using TOMS derived total ozone and UV reflectivity. Geophysical Research Letters, 1995, 22, 611-614.	4.0	114
57	The albedo of a tropical evergreen forest. Quarterly Journal of the Royal Meteorological Society, 1980, 106, 551-558.	2.7	85