

# Thomas Eck

## 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.

65  
papers

13,569  
citations

43  
h-index

66  
g-index

66  
ext. papers

14,907  
ext. citations

5.2  
avg, IF

5.59  
L-index

#	Paper	IF	Citations
65	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> , <b>2019</b> , 124, 4722-4740	4.4	21
64	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> , <b>2018</b> , 123, 5560-5587	4.4	33
63	Observation-based study on aerosol optical depth and particle size in partly cloudy regions. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 10013-10024	4.4	8
62	Remote sensing of soot carbon [Part 2: Understanding the absorption Ångström exponent]. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 1587-1602	6.8	52
61	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). <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 1769-1808	6.8	25
60	A miniature scanning sun photometer for vertical profiles and mobile platforms. <i>Aerosol Science and Technology</i> , <b>2016</b> , 50, 11-16	3.4	4
59	Development towards a global operational aerosol consensus: basic climatological characteristics of the International Cooperative for Aerosol Prediction Multi-Model Ensemble (ICAP-MME). <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 335-362	6.8	57
58	Latitudinal variation of aerosol properties from Indo-Gangetic Plain to central Himalayan foothills during TIGERZ campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 4750-4769	4.4	43
57	AERONET-based models of smoke-dominated aerosol near source regions and transported over oceans, and implications for satellite retrievals of aerosol optical depth. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 11493-11523	6.8	63
56	Observations of rapid aerosol optical depth enhancements in the vicinity of polluted cumulus clouds. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 11633-11656	6.8	46
55	New approach to monitor transboundary particulate pollution over Northeast Asia. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 659-674	6.8	53
54	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. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 7439-7452	4.4	30
53	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. <i>Atmospheric Measurement Techniques</i> , <b>2014</b> , 7, 3399-3412	4	20
52	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 <b>2014</b> ,		1
51	Current and Future Perspectives of Aerosol Research at NASA Goddard Space Flight Center. <i>Bulletin of the American Meteorological Society</i> , <b>2014</b> , 95, ES203-ES207	6.1	
50	Influence of observed diurnal cycles of aerosol optical depth on aerosol direct radiative effect. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 7895-7901	6.8	24
49	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. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 6414-6432	4.4	79

48	Fog- and cloud-induced aerosol modification observed by the Aerosol Robotic Network (AERONET). <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		70
47	An analysis of AERONET aerosol absorption properties and classifications representative of aerosol source regions. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		240
46	Dust optical properties over North Africa and Arabian Peninsula derived from the AERONET dataset. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 10733-10741	6.8	97
45	Where do we need additional in situ aerosol and sun photometer data?: a critical examination of spatial biases between MODIS and MISR aerosol products <b>2011</b> ,		3
44	A critical examination of spatial biases between MODIS and MISR aerosol products Application for potential AERONET deployment. <i>Atmospheric Measurement Techniques</i> , <b>2011</b> , 4, 2823-2836	4	80
43	Maritime aerosol network as a component of AERONET First results and comparison with global aerosol models and satellite retrievals. <i>Atmospheric Measurement Techniques</i> , <b>2011</b> , 4, 583-597	4	121
42	Global evaluation of the Collection 5 MODIS dark-target aerosol products over land. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 10399-10420	6.8	894
41	Pan-Arctic sunphotometry during the ARCTAS-A campaign of April 2008. <i>Geophysical Research Letters</i> , <b>2010</b> , 37, n/a-n/a	4.9	26
40	Climatological aspects of the optical properties of fine/coarse mode aerosol mixtures. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		276
39	Climatological aspects of the optical properties of fine/coarse mode aerosol mixtures <b>2010</b> , 115,		1
38	Light absorption by pollution, dust, and biomass burning aerosols: a global model study and evaluation with AERONET measurements. <i>Annales Geophysicae</i> , <b>2009</b> , 27, 3439-3464	2	192
37	Optical properties of boreal region biomass burning aerosols in central Alaska and seasonal variation of aerosol optical depth at an Arctic coastal site. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		105
36	Spatial and temporal variability of column-integrated aerosol optical properties in the southern Arabian Gulf and United Arab Emirates in summer. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		108
35	Coarse mode optical information retrievable using ultraviolet to short-wave infrared Sun photometry: Application to United Arab Emirates Unified Aerosol Experiment data. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113, n/a-n/a		20
34	Characterization of the optical properties of atmospheric aerosols in Amazonia from long-term AERONET monitoring (1993-1995 and 1999-2006). <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		71
33	Validation of AERONET estimates of atmospheric solar fluxes and aerosol radiative forcing by ground-based broadband measurements. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		80
32	A synthesis of single scattering albedo of biomass burning aerosol over southern Africa during SAFARI 2000. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	61
31	Classification of aerosol properties derived from AERONET direct sun data. <i>Atmospheric Chemistry and Physics</i> , <b>2007</b> , 7, 453-458	6.8	185

30	Effect of smoke and clouds on the transmissivity of photosynthetically active radiation inside the canopy. <i>Atmospheric Chemistry and Physics</i> , <b>2006</b> , 6, 1645-1656	6.8	41
29	Aeronet\$ Version 2.0 quality assurance criteria <b>2006</b> , 6408, 134		151
28	Robust optical features of fine mode size distributions: Application to the Qubec smoke event of 2002. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		23
27	Columnar aerosol optical properties at AERONET sites in central eastern Asia and aerosol transport to the tropical mid-Pacific. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110, n/a-n/a		323
26	Comparison of Moderate Resolution Imaging Spectroradiometer (MODIS) and Aerosol Robotic Network (AERONET) remote-sensing retrievals of aerosol fine mode fraction over ocean. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		103
25	A review of biomass burning emissions part II: intensive physical properties of biomass burning particles. <i>Atmospheric Chemistry and Physics</i> , <b>2005</b> , 5, 799-825	6.8	935
24	A review of biomass burning emissions part III: intensive optical properties of biomass burning particles. <i>Atmospheric Chemistry and Physics</i> , <b>2005</b> , 5, 827-849	6.8	378
23	The MODIS Aerosol Algorithm, Products, and Validation. <i>Journals of the Atmospheric Sciences</i> , <b>2005</b> , 62, 947-973	2.1	2405
22	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. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108, n/a-n/a		124
21	Maritime component in aerosol optical models derived from Aerosol Robotic Network data. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108, AAC 14-1		95
20	Spectral discrimination of coarse and fine mode optical depth. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		446
19	High aerosol optical depth biomass burning events: A comparison of optical properties for different source regions. <i>Geophysical Research Letters</i> , <b>2003</b> , 30,	4.9	146
18	Aerosol Radiative Impact on Spectral Solar Flux at the Surface, Derived from Principal-Plane Sky Measurements. <i>Journals of the Atmospheric Sciences</i> , <b>2002</b> , 59, 635-646	2.1	49
17	An emerging ground-based aerosol climatology: Aerosol optical depth from AERONET. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 12067-12097		1459
16	Bimodal size distribution influences on the variation of Angstrom derivatives in spectral and optical depth space. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 9787-9806		175
15	Characterization of the optical properties of biomass burning aerosols in Zambia during the 1997 ZIBBEE field campaign. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 3425-3448		180
14	Accuracy assessments of aerosol optical properties retrieved from Aerosol Robotic Network (AERONET) Sun and sky radiance measurements. <i>Journal of Geophysical Research</i> , <b>2000</b> , 105, 9791-9806		1272
13	Relationship between column aerosol optical thickness and in situ ground based dust concentrations over Barbados. <i>Geophysical Research Letters</i> , <b>2000</b> , 27, 1643-1646	4.9	63

12	The lognormal distribution as a reference for reporting aerosol optical depth statistics; Empirical tests using multi-year, multi-site AERONET Sunphotometer data. <i>Geophysical Research Letters</i> , <b>2000</b> , 27, 3333-3336	4.9	117
11	Wavelength dependence of the optical depth of biomass burning, urban, and desert dust aerosols. <i>Journal of Geophysical Research</i> , <b>1999</b> , 104, 31333-31349		1437
10	Detection of biomass burning smoke from TOMS measurements. <i>Geophysical Research Letters</i> , <b>1996</b> , 23, 745-748	4.9	164
9	Effect of dry-season biomass burning on Amazon basin aerosol concentrations and optical properties, 1992-1994. <i>Journal of Geophysical Research</i> , <b>1996</b> , 101, 19465-19481		75
8	Satellite estimation of spectral UVB irradiance using TOMS derived total ozone and UV reflectivity. <i>Geophysical Research Letters</i> , <b>1995</b> , 22, 611-614	4.9	98
7	The albedo of a tropical evergreen forest. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>1980</b> , 106, 551-558	6.4	70
6	Global evaluation of the Collection 5 MODIS dark-target aerosol products over land		33
5	Dust optical properties over North Africa and Arabian Peninsula derived from the AERONET dataset		7
4	Influence of observed diurnal cycles of aerosol optical depth on aerosol direct radiative effect		3
3	AERONET-based microphysical and optical properties of smoke-dominated aerosol near source regions and transported over oceans, and implications for satellite retrievals of aerosol optical depth		1
2	Development towards a global operational aerosol consensus: basic climatological characteristics of the International Cooperative for Aerosol Prediction Multi-Model Ensemble (ICAP-MME)		3
1	Remote sensing of soot carbon [Part 2: Understanding the absorption Angstrom exponent		4