

Kenneth Voss

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90
papers

4,702
citations

32
h-index

68
g-index

100
ext. papers

5,213
ext. citations

4.5
avg, IF

4.86
L-index

#	Paper	IF	Citations
90	An emerging ground-based aerosol climatology: Aerosol optical depth from AERONET. <i>Journal of Geophysical Research</i> , 2001 , 106, 12067-12097		1459
89	Dominance of mineral dust in aerosol light-scattering in the North Atlantic trade winds. <i>Nature</i> , 1996 , 380, 416-419	50.4	306
88	The role of seawater constituents in light backscattering in the ocean. <i>Progress in Oceanography</i> , 2004 , 61, 27-56	3.8	269
87	Biological and optical properties of mesoscale coccolithophore blooms in the Gulf of Maine. <i>Limnology and Oceanography</i> , 1991 , 36, 629-643	4.8	219
86	Validation of atmospheric correction over the oceans. <i>Journal of Geophysical Research</i> , 1997 , 102, 17209-17217	157	
85	Measurements of aerosol vertical profiles and optical properties during INDOEX 1999 using micropulse lidars. <i>Journal of Geophysical Research</i> , 2002 , 107, INX2 18-1		135
84	Maritime aerosol network as a component of AERONET I First results and comparison with global aerosol models and satellite retrievals. <i>Atmospheric Measurement Techniques</i> , 2011 , 4, 583-597	4	121
83	Impacts of VIIRS SDR performance on ocean color products. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 10,347-10,360	4.4	100
82	An Ocean-Colour Time Series for Use in Climate Studies: The Experience of the Ocean-Colour Climate Change Initiative (OC-CCI). <i>Sensors</i> , 2019 , 19,	3.8	94
81	Spectral reflectance of whitecaps: Their contribution to water-leaving radiance. <i>Journal of Geophysical Research</i> , 2000 , 105, 6493-6499		92
80	Ground-based lidar measurements of aerosols during ACE-2: instrument description, results, and comparisons with other ground-based and airborne measurements. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000 , 52, 636-651	3.3	78
79	Raman scattering by pure water and seawater. <i>Applied Optics</i> , 1998 , 37, 3324-32	1.7	73
78	Dominant aerosol chemical components and their contribution to extinction during the Aerosols99 cruise across the Atlantic. <i>Journal of Geophysical Research</i> , 2001 , 106, 20783-20809		67
77	Bidirectional reflectance of oceanic waters: A comparison of modeled and measured upward radiance fields. <i>Journal of Geophysical Research</i> , 1995 , 100, 13143		62
76	Estimating the altitude of aerosol plumes over the ocean from reflectance ratio measurements in the O2 A-band. <i>Remote Sensing of Environment</i> , 2009 , 113, 1899-1911	13.2	61
75	Polarized radiance distribution measurements of skylight. I. System description and characterization. <i>Applied Optics</i> , 1997 , 36, 6083-94	1.7	55
74	Polarized radiance distribution measurement of skylight. II. Experiment and data. <i>Applied Optics</i> , 1997 , 36, 8753-64	1.7	48

73	Geometrical and spectral distribution of sky radiance: Comparison between simulations and field measurements. <i>Remote Sensing of Environment</i> , 1989 , 27, 343-358	13.2	46
72	Scattering and attenuation properties of <i>Emiliania huxleyi</i> cells and their detached coccoliths. <i>Limnology and Oceanography</i> , 1998 , 43, 870-876	4.8	45
71	A spectral model of the beam attenuation coefficient in the ocean and coastal areas. <i>Limnology and Oceanography</i> , 1992 , 37, 501-509	4.8	45
70	Sediment properties influencing upwelling spectral reflectance signatures: The Biofilm gel effect. <i>Limnology and Oceanography</i> , 2003 , 48, 431-443	4.8	42
69	Upwelling radiance distribution camera system, NURADS. <i>Optics Express</i> , 2005 , 13, 4250-62	3.3	38
68	Spectra of particulate backscattering in natural waters. <i>Optics Express</i> , 2009 , 17, 16192-208	3.3	37
67	Effects of point-spread function on calibration and radiometric accuracy of CCD camera. <i>Applied Optics</i> , 2004 , 43, 665-70	1.7	37
66	. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000 , 52, 568-593	3.3	37
65	Shedding new light on light in the ocean. <i>Physics Today</i> , 2011 , 64, 44-49	0.9	35
64	Spectral optimization for constituent retrieval in Case 2 waters II: Validation study in the Chesapeake Bay. <i>Remote Sensing of Environment</i> , 2009 , 113, 610-621	13.2	34
63	Lidar measurements during Aerosols99. <i>Journal of Geophysical Research</i> , 2001 , 106, 20821-20831		34
62	A Review of Protocols for Fiducial Reference Measurements of Water Leaving Radiance for Validation of Satellite Remote-Sensing Data over Water. <i>Remote Sensing</i> , 2019 , 11, 2198	5	34
61	Electra-Optic Camera System For Measurement Of The Underwater Radiance Distribution. <i>Optical Engineering</i> , 1989 , 28, 241	1.1	33
60	Detailed validation of the bidirectional effect in various Case 1 waters for application to ocean color imagery. <i>Biogeosciences</i> , 2007 , 4, 781-789	4.6	32
59	Spectral Reflectance of Whitecaps: Instrumentation, Calibration, and Performance in Coastal Waters. <i>Journal of Atmospheric and Oceanic Technology</i> , 1998 , 15, 496-509	2	32
58	Measurement of the Mueller matrix for phytoplankton. <i>Limnology and Oceanography</i> , 1985 , 30, 1322-1326	4.2	30
57	POLRADS: polarization radiance distribution measurement system. <i>Optics Express</i> , 2010 , 18, 19672-80	3.3	29
56	Bidirectional reflectance study on dry, wet, and submerged particulate layers: effects of pore liquid refractive index and translucent particle concentrations. <i>Applied Optics</i> , 2006 , 45, 8753-63	1.7	29

55	Effects of optically shallow bottoms on upwelling radiances: Bidirectional reflectance distribution function effects. <i>Limnology and Oceanography</i> , 2003 , 48, 337-345	4.8	28
54	Aerosol optical depth measurements during the Aerosols99 experiment. <i>Journal of Geophysical Research</i> , 2001 , 106, 20811-20819		28
53	Use of the radiance distribution to measure the optical absorption coefficient in the ocean. <i>Limnology and Oceanography</i> , 1989 , 34, 1614-1622	4.8	28
52	Instrument to measure the bidirectional reflectance distribution function of surfaces. <i>Applied Optics</i> , 2000 , 39, 6197-206	1.7	26
51	Assessment of MERIS reflectance data as processed with SeaDAS over the European seas. <i>Optics Express</i> , 2011 , 19, 25657-71	3.3	24
50	In situ measurements of Raman scattering in clear ocean water. <i>Applied Optics</i> , 1997 , 36, 6962-7	1.7	24
49	Bidirectional reflectance function for oceanic waters with varying chlorophyll concentrations: Measurements versus predictions. <i>Limnology and Oceanography</i> , 2005 , 50, 698-705	4.8	24
48	Detailed validation of the bidirectional effect in various Case I and Case II waters. <i>Optics Express</i> , 2012 , 20, 7630-45	3.3	23
47	Comparisons of bidirectional reflectance distribution function measurements on prepared particulate surfaces and radiative-transfer models. <i>Applied Optics</i> , 2005 , 44, 597-610	1.7	22
46	Regional evaluation of an advanced very high resolution radiometer (AVHRR) two-channel aerosol retrieval algorithm. <i>Journal of Geophysical Research</i> , 2004 , 109,		22
45	A Review of Protocols for Fiducial Reference Measurements of Downwelling Irradiance for the Validation of Satellite Remote Sensing Data over Water. <i>Remote Sensing</i> , 2019 , 11, 1742	5	21
44	An Example Crossover Experiment for Testing New Vicarious Calibration Techniques for Satellite Ocean Color Radiometry. <i>Journal of Atmospheric and Oceanic Technology</i> , 2010 , 27, 1747-1759	2	21
43	Bidirectional reflectance measurements of sediments in the vicinity of Lee Stocking Island, Bahamas. <i>Limnology and Oceanography</i> , 2003 , 48, 380-389	4.8	21
42	Bidirectional reflectance of dry and submerged Labsphere Spectralon plaque. <i>Applied Optics</i> , 2006 , 45, 7924-7	1.7	20
41	Patterns and statistics of in-water polarization under conditions of linear and nonlinear ocean surface waves. <i>Journal of Geophysical Research</i> , 2011 , 116,		18
40	Polarized light field under dynamic ocean surfaces: Numerical modeling compared with measurements. <i>Journal of Geophysical Research</i> , 2011 , 116,		18
39	Beam-Attenuation Measurement Error Due to Small-Angle Scattering Acceptance. <i>Journal of Atmospheric and Oceanic Technology</i> , 1993 , 10, 113	2	18
38	The spectral upwelling radiance distribution in optically shallow waters. <i>Limnology and Oceanography</i> , 2003 , 48, 364-373	4.8	17

37	Quantitative estimation of the underwater radiance distribution. <i>Journal of Geophysical Research</i> , 2011 , 116,		16
36	Toward closure of the inherent optical properties of natural waters. <i>Journal of Geophysical Research</i> , 1995 , 100, 13193		15
35	In situ measurements of inelastic light scattering in Monterey Bay using solar Fraunhofer lines. <i>Journal of Geophysical Research</i> , 1995 , 100, 13227		15
34	Introduction to special section on Recent Advances in the Study of Optical Variability in the Near-Surface and Upper Ocean. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		14
33	Validation of a SeaWiFS dust-correction methodology in the Mediterranean Sea: Identification of an algorithm-switching criterion. <i>Remote Sensing of Environment</i> , 2009 , 113, 2689-2700	13.2	14
32	An instrument to measure the downwelling polarized radiance distribution in the ocean. <i>Optics Express</i> , 2011 , 19, 17609-20	3.3	12
31	On Hapke photometric model predictions on reflectance of closely packed particulate surfaces. <i>Icarus</i> , 2011 , 215, 27-33	3.8	12
30	A new instrument for measuring the high dynamic range radiance distribution in near-surface sea water. <i>Optics Express</i> , 2012 , 20, 27024-38	3.3	12
29	Flow climatology for physicochemical properties of dichotomous aerosol over the western North Atlantic Ocean at Bermuda. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 691-717	6.8	11
28	Observation of non-principal plane neutral points in the in-water upwelling polarized light field. <i>Optics Express</i> , 2011 , 19, 5942-52	3.3	11
27	The variation of the polarized downwelling radiance distribution with depth in the coastal and clear ocean. <i>Journal of Geophysical Research</i> , 2011 , 116,		11
26	Bidirectional reflectance and polarization measurements on packed surfaces of benthic sediments and spherical particles. <i>Optics Express</i> , 2009 , 17, 5217-31	3.3	11
25	Characteristics of Optically Thin Coastal Florida Cumuli Derived From Surface-Based Lidar Measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 10,591	4.4	11
24	Deriving consistent ocean biological and biogeochemical products from multiple satellite ocean color sensors. <i>Optics Express</i> , 2020 , 28, 2661-2682	3.3	10
23	Determining the influential depth for surface reflectance of sediment by BRDF measurements. <i>Optics Express</i> , 2003 , 11, 2654-65	3.3	8
22	Measurement of solar-stimulated fluorescence in natural waters. <i>Limnology and Oceanography</i> , 1998 , 43, 1198-1206	4.8	8
21	Angular distribution of fluorescence from phytoplankton. <i>Limnology and Oceanography</i> , 1993 , 38, 1582-1586	4.8	8
20	Laboratory measurements of optical beams in young sea ice. <i>Limnology and Oceanography</i> , 1989 , 34, 1606-1613	4.8	8

19	Field Radiometry and Ocean Color Remote Sensing 2010 , 307-334		8
18	Polarized Light Scattering by Small Particles. <i>Aerosol Science and Technology</i> , 1982 , 1, 317-327	3.4	5
17	Bi-directional reflectance study on particulate layers: Effects of pore liquid absorption coefficient. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2007 , 105, 405-413	2.1	4
16	Ship shadowing: model and data comparisons 1990 ,		4
15	Radiance Distribution Measurements In Coastal Water 1988 ,		4
14	European Radiometry Buoy and Infrastructure (EURYBIA): A Contribution to the Design of the European Copernicus Infrastructure for Ocean Colour System Vicarious Calibration. <i>Remote Sensing</i> , 2020 , 12, 1178	5	3
13	Comparison of Two Filter-Based Reflectance Methods to Measure the Light Absorption by Atmospheric Aerosols. <i>Journal of Atmospheric and Oceanic Technology</i> , 2014 , 31, 923-929	2	3
12	Next-generation in-water radiance distribution camera system 1992 ,		3
11	A New Instrument for Measurement of the Solar Aureole Radiance Distribution from Unstable Platforms. <i>Journal of Atmospheric and Oceanic Technology</i> , 2000 , 17, 1040-1047	2	2
10	Measuring and Modeling the Polarized Upwelling Radiance Distribution in Clear and Coastal Waters. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 2683	2.6	2
9	Whitecaps: spectral reflectance in the open ocean and their contribution to water-leaving radiance 1997 ,		1
8	Measurement of the point-spread function in a layered system. <i>Applied Optics</i> , 1997 , 36, 3335-7	1.7	1
7	Simultaneous measurement of up-welling spectral radiance using a fiber-coupled CCD spectrograph 2007 ,		1
6	Ocean Optics Revisited. <i>Optics and Photonics News</i> , 1996 , 7, 31	1.9	1
5	Photometer for the continuous measurement of calcite-dependent light scatter in seawater 1994 , 2258, 512		1
4	New theoretical formulation for the determination of radiance transmittance at the water-air interface: comment. <i>Optics Express</i> , 2018 , 26, 19137-19139	3.3	1
3	Variability of the point spread function in the water column 1990 , 1302, 355		0
2	Improved shadow correction for the marine optical buoy, MOBY. <i>Optics Express</i> , 2021 , 29, 34411-34426	3.3	0

- 1 Estimation of aerosol altitude from reflectance ratio measurements in the O₂ A-band **2006**, 6406, 25