

# Kenneth Voss

## 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.

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	Improved shadow correction for the marine optical buoy, MOBY. <i>Optics Express</i> , <b>2021</b> , 29, 34411-34426	3.3	0
89	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> , <b>2020</b> , 12, 1178	5	3
88	Deriving consistent ocean biological and biogeochemical products from multiple satellite ocean color sensors. <i>Optics Express</i> , <b>2020</b> , 28, 2661-2682	3.3	10
87	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> , <b>2019</b> , 11, 1742	5	21
86	An Ocean-Colour Time Series for Use in Climate Studies: The Experience of the Ocean-Colour Climate Change Initiative (OC-CCI). <i>Sensors</i> , <b>2019</b> , 19,	3.8	94
85	A Review of Protocols for Fiducial Reference Measurements of WaterLeaving Radiance for Validation of Satellite Remote-Sensing Data over Water. <i>Remote Sensing</i> , <b>2019</b> , 11, 2198	5	34
84	New theoretical formulation for the determination of radiance transmittance at the water-air interface: comment. <i>Optics Express</i> , <b>2018</b> , 26, 19137-19139	3.3	1
83	Measuring and Modeling the Polarized Upwelling Radiance Distribution in Clear and Coastal Waters. <i>Applied Sciences (Switzerland)</i> , <b>2018</b> , 8, 2683	2.6	2
82	Characteristics of Optically Thin Coastal Florida Cumuli Derived From Surface-Based Lidar Measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2018</b> , 123, 10,591	4.4	11
81	Flow climatology for physicochemical properties of dichotomous aerosol over the western North Atlantic Ocean at Bermuda. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 691-717	6.8	11
80	Comparison of Two Filter-Based Reflectance Methods to Measure the Light Absorption by Atmospheric Aerosols. <i>Journal of Atmospheric and Oceanic Technology</i> , <b>2014</b> , 31, 923-929	2	3
79	Impacts of VIIRS SDR performance on ocean color products. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 10,347-10,360	4.4	100
78	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> , <b>2012</b> , 117, n/a-n/a		14
77	Detailed validation of the bidirectional effect in various Case I and Case II waters. <i>Optics Express</i> , <b>2012</b> , 20, 7630-45	3.3	23
76	A new instrument for measuring the high dynamic range radiance distribution in near-surface sea water. <i>Optics Express</i> , <b>2012</b> , 20, 27024-38	3.3	12
75	Observation of non-principal plane neutral points in the in-water upwelling polarized light field. <i>Optics Express</i> , <b>2011</b> , 19, 5942-52	3.3	11
74	An instrument to measure the downwelling polarized radiance distribution in the ocean. <i>Optics Express</i> , <b>2011</b> , 19, 17609-20	3.3	12

73	Assessment of MERIS reflectance data as processed with SeaDAS over the European seas. <i>Optics Express</i> , <b>2011</b> , 19, 25657-71	3.3	24
72	The variation of the polarized downwelling radiance distribution with depth in the coastal and clear ocean. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		11
71	Patterns and statistics of in-water polarization under conditions of linear and nonlinear ocean surface waves. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		18
70	Polarized light field under dynamic ocean surfaces: Numerical modeling compared with measurements. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		18
69	Shedding new light on light in the ocean. <i>Physics Today</i> , <b>2011</b> , 64, 44-49	0.9	35
68	On Hapke photometric model predictions on reflectance of closely packed particulate surfaces. <i>Icarus</i> , <b>2011</b> , 215, 27-33	3.8	12
67	Quantitative estimation of the underwater radiance distribution. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		16
66	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
65	An Example Crossover Experiment for Testing New Vicarious Calibration Techniques for Satellite Ocean Color Radiometry. <i>Journal of Atmospheric and Oceanic Technology</i> , <b>2010</b> , 27, 1747-1759	2	21
64	POLRADS: polarization radiance distribution measurement system. <i>Optics Express</i> , <b>2010</b> , 18, 19672-80	3.3	29
63	Field Radiometry and Ocean Color Remote Sensing <b>2010</b> , 307-334		8
62	Spectral optimization for constituent retrieval in Case 2 waters II: Validation study in the Chesapeake Bay. <i>Remote Sensing of Environment</i> , <b>2009</b> , 113, 610-621	13.2	34
61	Estimating the altitude of aerosol plumes over the ocean from reflectance ratio measurements in the O2 A-band. <i>Remote Sensing of Environment</i> , <b>2009</b> , 113, 1899-1911	13.2	61
60	Validation of a SeaWiFS dust-correction methodology in the Mediterranean Sea: Identification of an algorithm-switching criterion. <i>Remote Sensing of Environment</i> , <b>2009</b> , 113, 2689-2700	13.2	14
59	Bidirectional reflectance and polarization measurements on packed surfaces of benthic sediments and spherical particles. <i>Optics Express</i> , <b>2009</b> , 17, 5217-31	3.3	11
58	Spectra of particulate backscattering in natural waters. <i>Optics Express</i> , <b>2009</b> , 17, 16192-208	3.3	37
57	Detailed validation of the bidirectional effect in various Case 1 waters for application to ocean color imagery. <i>Biogeosciences</i> , <b>2007</b> , 4, 781-789	4.6	32
56	Bi-directional reflectance study on particulate layers: Effects of pore liquid absorption coefficient. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2007</b> , 105, 405-413	2.1	4

55	Simultaneous measurement of up-welling spectral radiance using a fiber-coupled CCD spectrograph <b>2007</b> ,		1
54	Estimation of aerosol altitude from reflectance ratio measurements in the O2 A-band <b>2006</b> , 6406, 25		
53	Bidirectional reflectance of dry and submerged Labsphere Spectralon plaque. <i>Applied Optics</i> , <b>2006</b> , 45, 7924-7	1.7	20
52	Bidirectional reflectance study on dry, wet, and submerged particulate layers: effects of pore liquid refractive index and translucent particle concentrations. <i>Applied Optics</i> , <b>2006</b> , 45, 8753-63	1.7	29
51	Comparisons of bidirectional reflectance distribution function measurements on prepared particulate surfaces and radiative-transfer models. <i>Applied Optics</i> , <b>2005</b> , 44, 597-610	1.7	22
50	Upwelling radiance distribution camera system, NURADS. <i>Optics Express</i> , <b>2005</b> , 13, 4250-62	3.3	38
49	Bidirectional reflectance function for oceanic waters with varying chlorophyll concentrations: Measurements versus predictions. <i>Limnology and Oceanography</i> , <b>2005</b> , 50, 698-705	4.8	24
48	The role of seawater constituents in light backscattering in the ocean. <i>Progress in Oceanography</i> , <b>2004</b> , 61, 27-56	3.8	269
47	Regional evaluation of an advanced very high resolution radiometer (AVHRR) two-channel aerosol retrieval algorithm. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		22
46	Effects of point-spread function on calibration and radiometric accuracy of CCD camera. <i>Applied Optics</i> , <b>2004</b> , 43, 665-70	1.7	37
45	The spectral upwelling radiance distribution in optically shallow waters. <i>Limnology and Oceanography</i> , <b>2003</b> , 48, 364-373	4.8	17
44	Sediment properties influencing upwelling spectral reflectance signatures: The Biofilm gel effect□ <i>Limnology and Oceanography</i> , <b>2003</b> , 48, 431-443	4.8	42
43	Effects of optically shallow bottoms on upwelling radiances: Bidirectional reflectance distribution function effects. <i>Limnology and Oceanography</i> , <b>2003</b> , 48, 337-345	4.8	28
42	Bidirectional reflectance measurements of sediments in the vicinity of Lee Stocking Island, Bahamas. <i>Limnology and Oceanography</i> , <b>2003</b> , 48, 380-389	4.8	21
41	Determining the influential depth for surface reflectance of sediment by BRDF measurements. <i>Optics Express</i> , <b>2003</b> , 11, 2654-65	3.3	8
40	Measurements of aerosol vertical profiles and optical properties during INDOEX 1999 using micropulse lidars. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, INX2 18-1		135
39	An emerging ground-based aerosol climatology: Aerosol optical depth from AERONET. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 12067-12097		1459
38	Lidar measurements during Aerosols99. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 20821-20831		34

37	Dominant aerosol chemical components and their contribution to extinction during the Aerosols99 cruise across the Atlantic. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 20783-20809		67
36	Aerosol optical depth measurements during the Aerosols99 experiment. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 20811-20819		28
35	A New Instrument for Measurement of the Solar Aureole Radiance Distribution from Unstable Platforms. <i>Journal of Atmospheric and Oceanic Technology</i> , <b>2000</b> , 17, 1040-1047	2	2
34	. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , <b>2000</b> , 52, 568-593	3.3	37
33	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> , <b>2000</b> , 52, 636-651	3.3	78
32	Instrument to measure the bidirectional reflectance distribution function of surfaces. <i>Applied Optics</i> , <b>2000</b> , 39, 6197-206	1.7	26
31	Spectral reflectance of whitecaps: Their contribution to water-leaving radiance. <i>Journal of Geophysical Research</i> , <b>2000</b> , 105, 6493-6499		92
30	Raman scattering by pure water and seawater. <i>Applied Optics</i> , <b>1998</b> , 37, 3324-32	1.7	73
29	Spectral Reflectance of Whitecaps: Instrumentation, Calibration, and Performance in Coastal Waters. <i>Journal of Atmospheric and Oceanic Technology</i> , <b>1998</b> , 15, 496-509	2	32
28	Scattering and attenuation properties of <i>Emiliania huxleyi</i> cells and their detached coccoliths. <i>Limnology and Oceanography</i> , <b>1998</b> , 43, 870-876	4.8	45
27	Measurement of solar-stimulated fluorescence in natural waters. <i>Limnology and Oceanography</i> , <b>1998</b> , 43, 1198-1206	4.8	8
26	Whitecaps: spectral reflectance in the open ocean and their contribution to water-leaving radiance <b>1997</b> ,		1
25	Measurement of the point-spread function in a layered system. <i>Applied Optics</i> , <b>1997</b> , 36, 3335-7	1.7	1
24	Polarized radiance distribution measurements of skylight. I. System description and characterization. <i>Applied Optics</i> , <b>1997</b> , 36, 6083-94	1.7	55
23	In situ measurements of Raman scattering in clear ocean water. <i>Applied Optics</i> , <b>1997</b> , 36, 6962-7	1.7	24
22	Polarized radiance distribution measurement of skylight. II. Experiment and data. <i>Applied Optics</i> , <b>1997</b> , 36, 8753-64	1.7	48
21	Validation of atmospheric correction over the oceans. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 17209-17217	1.57	
20	Ocean Optics Revisited. <i>Optics and Photonics News</i> , <b>1996</b> , 7, 31	1.9	1

19	Dominance of mineral dust in aerosol light-scattering in the North Atlantic trade winds. <i>Nature</i> , <b>1996</b> , 380, 416-419	50.4	306
18	Toward closure of the inherent optical properties of natural waters. <i>Journal of Geophysical Research</i> , <b>1995</b> , 100, 13193		15
17	In situ measurements of inelastic light scattering in Monterey Bay using solar Fraunhofer lines. <i>Journal of Geophysical Research</i> , <b>1995</b> , 100, 13227		15
16	Bidirectional reflectance of oceanic waters: A comparison of modeled and measured upward radiance fields. <i>Journal of Geophysical Research</i> , <b>1995</b> , 100, 13143		62
15	Photometer for the continuous measurement of calcite-dependent light scatter in seawater <b>1994</b> , 2258, 512		1
14	Beam-Attenuation Measurement Error Due to Small-Angle Scattering Acceptance. <i>Journal of Atmospheric and Oceanic Technology</i> , <b>1993</b> , 10, 113	2	18
13	Angular distribution of fluorescence from phytoplankton. <i>Limnology and Oceanography</i> , <b>1993</b> , 38, 1582-1586	4.8	8
12	Next-generation in-water radiance distribution camera system <b>1992</b> ,		3
11	A spectral model of the beam attenuation coefficient in the ocean and coastal areas. <i>Limnology and Oceanography</i> , <b>1992</b> , 37, 501-509	4.8	45
10	Biological and optical properties of mesoscale coccolithophore blooms in the Gulf of Maine. <i>Limnology and Oceanography</i> , <b>1991</b> , 36, 629-643	4.8	219
9	Ship shadowing: model and data comparisons <b>1990</b> ,		4
8	Variability of the point spread function in the water column <b>1990</b> , 1302, 355		0
7	Electra-Optic Camera System For Measurement Of The Underwater Radiance Distribution. <i>Optical Engineering</i> , <b>1989</b> , 28, 241	1.1	33
6	Geometrical and spectral distribution of sky radiance: Comparison between simulations and field measurements. <i>Remote Sensing of Environment</i> , <b>1989</b> , 27, 343-358	13.2	46
5	Laboratory measurements of optical beams in young sea ice. <i>Limnology and Oceanography</i> , <b>1989</b> , 34, 1606-1613	4.8	8
4	Use of the radiance distribution to measure the optical absorption coefficient in the ocean. <i>Limnology and Oceanography</i> , <b>1989</b> , 34, 1614-1622	4.8	28
3	Radiance Distribution Measurements In Coastal Water <b>1988</b> ,		4
2	Measurement of the Mueller matrix for phytoplankton1. <i>Limnology and Oceanography</i> , <b>1985</b> , 30, 1322-1326	4.8	30

- 1 Polarized Light Scattering by Small Particles. *Aerosol Science and Technology*, **1982**, 1, 317-327 3.4 5