

Vittorio Brando

List of Publications by Year in descending order

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95
papers

6,340
citations

76326

40
h-index

69250

77
g-index

100
all docs

100
docs citations

100
times ranked

6607
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of ocean color remote sensing methods and statistical techniques for the detection, mapping and analysis of phytoplankton blooms in coastal and open oceans. <i>Progress in Oceanography</i> , 2014, 123, 123-144.	3.2	424
2	Satellite hyperspectral remote sensing for estimating estuarine and coastal water quality. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2003, 41, 1378-1387.	6.3	408
3	Review of constituent retrieval in optically deep and complex waters from satellite imagery. <i>Remote Sensing of Environment</i> , 2012, 118, 116-126.	11.0	388
4	Generalized ocean color inversion model for retrieving marine inherent optical properties. <i>Applied Optics</i> , 2013, 52, 2019.	1.8	366
5	A physics based retrieval and quality assessment of bathymetry from suboptimal hyperspectral data. <i>Remote Sensing of Environment</i> , 2009, 113, 755-770.	11.0	279
6	Mapping seagrass species, cover and biomass in shallow waters: An assessment of satellite multi-spectral and airborne hyper-spectral imaging systems in Moreton Bay (Australia). <i>Remote Sensing of Environment</i> , 2008, 112, 3413-3425.	11.0	252
7	Intercomparison of shallow water bathymetry, hydro-optics, and benthos mapping techniques in Australian and Caribbean coastal environments. <i>Limnology and Oceanography: Methods</i> , 2011, 9, 396-425.	2.0	246
8	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, 4285.	3.8	239
9	Assessment of water quality in Lake Garda (Italy) using Hyperion. <i>Remote Sensing of Environment</i> , 2007, 109, 183-195.	11.0	234
10	Measuring freshwater aquatic ecosystems: The need for a hyperspectral global mapping satellite mission. <i>Remote Sensing of Environment</i> , 2015, 167, 181-195.	11.0	191
11	Coral reef applications of Sentinel-2: Coverage, characteristics, bathymetry and benthic mapping with comparison to Landsat 8. <i>Remote Sensing of Environment</i> , 2018, 216, 598-614.	11.0	162
12	Remote sensing of shallow waters – A 50-year retrospective and future directions. <i>Remote Sensing of Environment</i> , 2020, 240, 111619.	11.0	158
13	Retrospective seagrass change detection in a shallow coastal tidal Australian lake. <i>Remote Sensing of Environment</i> , 2005, 97, 415-433.	11.0	156
14	From Observation to Information and Users: The Copernicus Marine Service Perspective. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	135
15	COVID-19 lockdown measures reveal human impact on water transparency in the Venice Lagoon. <i>Science of the Total Environment</i> , 2020, 736, 139612.	8.0	131
16	Dispersal of suspended sediments and nutrients in the Great Barrier Reef lagoon during river-discharge events: conclusions from satellite remote sensing and concurrent flood-plume sampling. <i>Marine and Freshwater Research</i> , 2010, 61, 651.	1.3	114
17	Airborne hyperspectral data to assess suspended particulate matter and aquatic vegetation in a shallow and turbid lake. <i>Remote Sensing of Environment</i> , 2015, 157, 48-57.	11.0	98
18	Copernicus Marine Service Ocean State Report. <i>Journal of Operational Oceanography</i> , 2018, 11, S1-S142.	1.2	96

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19	Adaptive semianalytical inversion of ocean color radiometry in optically complex waters. <i>Applied Optics</i> , 2012, 51, 2808.	1.8	90
20	Evaluation of Multi-Resolution Satellite Sensors for Assessing Water Quality and Bottom Depth of Lake Garda. <i>Sensors</i> , 2014, 14, 24116-24131.	3.8	88
21	Imaging Spectrometry of Inland and Coastal Waters: State of the Art, Achievements and Perspectives. <i>Surveys in Geophysics</i> , 2019, 40, 401-429.	4.6	88
22	Inter-annual variability of wet season freshwater plume extent into the Great Barrier Reef lagoon based on satellite coastal ocean colour observations. <i>Marine Pollution Bulletin</i> , 2012, 65, 210-223.	5.0	84
23	Long term monitoring of photosystem II herbicides – Correlation with remotely sensed freshwater extent to monitor changes in the quality of water entering the Great Barrier Reef, Australia. <i>Marine Pollution Bulletin</i> , 2012, 65, 292-305.	5.0	82
24	Bio-optical variability of the absorption and scattering properties of the Queensland inshore and reef waters, Australia. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	81
25	IMOS National Reference Stations: A Continental-Wide Physical, Chemical and Biological Coastal Observing System. <i>PLoS ONE</i> , 2014, 9, e113652.	2.5	81
26	Mapping water quality and substrate cover in optically complex coastal and reef waters: an integrated approach. <i>Marine Pollution Bulletin</i> , 2005, 51, 459-469.	5.0	80
27	High-resolution satellite turbidity and sea surface temperature observations of river plume interactions during a significant flood event. <i>Ocean Science</i> , 2015, 11, 909-920.	3.4	78
28	Copernicus Marine Service Ocean State Report, Issue 3. <i>Journal of Operational Oceanography</i> , 2019, 12, S1-S123.	1.2	66
29	A methodology for retrieval of environmental noise equivalent spectra applied to four Hyperion scenes of the same tropical coral reef. <i>Remote Sensing of Environment</i> , 2004, 93, 188-197.	11.0	65
30	Coral community responses to declining water quality: Whitsunday Islands, Great Barrier Reef, Australia. <i>Coral Reefs</i> , 2014, 33, 923-938.	2.2	62
31	Remote sensing of water quality in an Australian tropical freshwater impoundment using matrix inversion and MERIS images. <i>Remote Sensing of Environment</i> , 2011, 115, 2402-2414.	11.0	59
32	Increased spectral resolution enhances coral detection under varying water conditions. <i>Remote Sensing of Environment</i> , 2013, 131, 247-261.	11.0	58
33	A compilation of global bio-optical in situ data for ocean-colour satellite applications. <i>Earth System Science Data</i> , 2016, 8, 235-252.	9.9	56
34	The relationship between dissolved organic matter absorption and dissolved organic carbon in reservoirs along a temperate to tropical gradient. <i>Remote Sensing of Environment</i> , 2015, 156, 395-402.	11.0	54
35	Sentinel-2 remote sensing of <i>Zostera noltei</i> -dominated intertidal seagrass meadows. <i>Remote Sensing of Environment</i> , 2020, 251, 112020.	11.0	52
36	CoastColour Round Robin data sets: a database to evaluate the performance of algorithms for the retrieval of water quality parameters in coastal waters. <i>Earth System Science Data</i> , 2015, 7, 319-348.	9.9	52

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37	Assessment of environmental management effects in a shallow water basin using mass-balance models. <i>Ecological Modelling</i> , 2004, 172, 213-232.	2.5	49
38	Mediterranean ocean colour Level 3 operational multi-sensor processing. <i>Ocean Science</i> , 2019, 15, 127-146.	3.4	44
39	First Evaluation of PRISMA Level 1 Data for Water Applications. <i>Sensors</i> , 2020, 20, 4553.	3.8	44
40	A compilation of global bio-optical in situ data for ocean-colour satellite applications “ version two. <i>Earth System Science Data</i> , 2019, 11, 1037-1068.	9.9	43
41	Hyperspectral aerial images. A valuable tool for submerged vegetation recognition in the Orbetello Lagoons, Italy. <i>International Journal of Remote Sensing</i> , 1999, 20, 523-533.	2.9	42
42	Validity of SeaDAS water constituents retrieval algorithms in Australian tropical coastal waters. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	42
43	Monitoring toxic cyanobacteria <i>Lyngbya majuscula</i> (Gomont) in Moreton Bay, Australia by integrating satellite image data and field mapping. <i>Harmful Algae</i> , 2006, 5, 45-56.	4.8	40
44	Mapping Submerged Habitats and Mangroves of Lampi Island Marine National Park (Myanmar) from in Situ and Satellite Observations. <i>Remote Sensing</i> , 2016, 8, 2.	4.0	40
45	Long term simulations of population dynamics of <i>Ulva r.</i> in the lagoon of Venice. <i>Ecological Modelling</i> , 1997, 102, 259-272.	2.5	39
46	The Potential of Autonomous Ship-Borne Hyperspectral Radiometers for the Validation of Ocean Color Radiometry Data. <i>Remote Sensing</i> , 2016, 8, 150.	4.0	39
47	Mapping turbidity patterns in the Po river prodelta using multi-temporal Landsat 8 imagery. <i>Estuarine, Coastal and Shelf Science</i> , 2017, 198, 555-567.	2.1	37
48	Review of fluorescent standards for calibration of in situ fluorometers: Recommendations applied in coastal and ocean observing programs. <i>Optics Express</i> , 2011, 19, 26768.	3.4	36
49	Satellite data assimilation and estimation of a 3D coastal sediment transport model using error-subspace emulators. <i>Environmental Modelling and Software</i> , 2013, 40, 191-201.	4.5	34
50	Seasonal distributions of ocean particulate optical properties from spaceborne lidar measurements in Mediterranean and Black sea. <i>Remote Sensing of Environment</i> , 2020, 247, 111889.	11.0	30
51	ESA-MERIS 10-Year Mission Reveals Contrasting Phytoplankton Bloom Dynamics in Two Tropical Regions of Northern Australia. <i>Remote Sensing</i> , 2014, 6, 2963-2988.	4.0	28
52	Global Distribution of Non-Algal Particles From Ocean Color Data and Implications for Phytoplankton Biomass Detection. <i>Geophysical Research Letters</i> , 2018, 45, 7672-7682.	4.0	28
53	Phenology of <i>Trichodesmium</i> spp. blooms in the Great Barrier Reef lagoon, Australia, from the ESA-MERIS 10-year mission. <i>PLoS ONE</i> , 2018, 13, e0208010.	2.5	25
54	Effects of Per-Pixel Variability on Uncertainties in Bathymetric Retrievals from High-Resolution Satellite Images. <i>Remote Sensing</i> , 2016, 8, 459.	4.0	24

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55	Data Needs for Hyperspectral Detection of Algal Diversity Across the Globe. <i>Oceanography</i> , 2020, 33, 74-79.	1.0	24
56	Assessing the influence of different validation protocols on Ocean Colour match-up analyses. <i>Remote Sensing of Environment</i> , 2021, 259, 112415.	11.0	22
57	Influence of river discharge and ocean currents on coastal optical properties. <i>Continental Shelf Research</i> , 2014, 84, 188-203.	1.8	21
58	Particulate Backscattering Ratio as an Indicator of Changing Particle Composition in Coastal Waters: Observations From Great Barrier Reef Waters. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 5485-5502.	2.6	19
59	A three-step semi analytical algorithm (3SAA) for estimating inherent optical properties over oceanic, coastal, and inland waters from remote sensing reflectance. <i>Remote Sensing of Environment</i> , 2021, 263, 112537.	11.0	18
60	Spatio-temporal analysis of prodelta dynamics by means of new satellite generation: the case of Po river by Landsat-8 data. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2018, 66, 210-225.	2.8	16
61	Remote Sensing of Seagrass Ecosystems: Use of Spaceborne and Airborne Sensors. , 2007, , 347-359.		16
62	Seabird bycatch mitigation and blue-dyed bait: A spectral and experimental assessment. <i>Biological Conservation</i> , 2008, 141, 1354-1364.	4.1	15
63	A Wavelet Approach for Estimating Chlorophyll-A From Inland Waters With Reflectance Spectroscopy. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2014, 11, 89-93.	3.1	14
64	COVID-19 lockdown effects on a coastal marine environment: Disentangling perception versus reality. <i>Science of the Total Environment</i> , 2022, 817, 153002.	8.0	14
65	Absorption correction and phase function shape effects on the closure of apparent optical properties. <i>Applied Optics</i> , 2016, 55, 8618.	2.1	13
66	The case for a global inland water quality product. , 2012, , .		12
67	Bio-optical Modeling of Total Suspended Solids. , 2017, , 129-156.		10
68	Using overlapping VIIRS scenes to observe short term variations in particulate matter in the coastal environment. <i>Remote Sensing of Environment</i> , 2019, 233, 111367.	11.0	9
69	Simulation of the seasonal evolution of macroalgae in the lagoon of Venice. <i>Environmental Modeling and Assessment</i> , 1997, 2, 65-71.	2.2	8
70	Bio-Optical Properties of Two Neighboring Coastal Regions of Tropical Northern Australia: The Van Diemen Gulf and Darwin Harbour. <i>Frontiers in Marine Science</i> , 2017, 4, .	2.5	8
71	Linking flow-stream variability to grain size distribution of suspended sediment from a satellite-based analysis of the Tiber River plume (Tyrrhenian Sea). <i>Scientific Reports</i> , 2019, 9, 19729.	3.3	8
72	Physical oceanographic processes influence bio-optical properties in the Tasman Sea. <i>Journal of Sea Research</i> , 2016, 110, 1-7.	1.6	7

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73	Impact of wet season river flood discharge on phytoplankton absorption properties in the southern Great Barrier Reef region coastal waters. <i>Estuarine, Coastal and Shelf Science</i> , 2017, 196, 379-386.	2.1	7
74	Coastal mixing in multiple-mouth deltas: A case study in the Po delta, Italy. <i>Estuarine, Coastal and Shelf Science</i> , 2019, 226, 106254.	2.1	7
75	A Virtual Geostationary Ocean Color Sensor to Analyze the Coastal Optical Variability. <i>Remote Sensing</i> , 2020, 12, 1539.	4.0	7
76	Phytoplankton Bloom Dynamics in the Baltic Sea Using a Consistently Reprocessed Time Series of Multi-Sensor Reflectance and Novel Chlorophyll-a Retrievals. <i>Remote Sensing</i> , 2021, 13, 3071.	4.0	7
77	Noise Estimation of Remote Sensing Reflectance Using a Segmentation Approach Suitable for Optically Shallow Waters. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014, 52, 7504-7512.	6.3	6
78	Hyperspectral Prisma Products of Aquatic Systems. , 2021, , .		5
79	Approaches for monitoring benthic and water column biophysical properties in Australian coastal environments. , 0, , .		4
80	Remote sensing of a cyanobacterial bloom (<i>Lyngbya majuscula</i>) in Moreton Bay, Australia. , 0, , .		4
81	Guest Editorial: Coastal Aquatic Remote Sensing Applications for Environmental Monitoring and Management. <i>Journal of Applied Remote Sensing</i> , 2007, 1, 011599.	1.3	3
82	Hyperspectral imaging for benthic species recognition in shallow coastal waters. , 0, , .		2
83	Toward assimilation of ocean colour satellite observation into coastal ocean biogeochemical models: the tropical Fitzroy River Estuary case study. <i>Proceedings of SPIE</i> , 2007, , .	0.8	2
84	RETROSPECTIVE CHANGE DETECTION IN A SHALLOW COASTAL TIDAL LAKE: MAPPING SEAGRASSES IN WALLIS LAKE, AUSTRALIA. , 2004, , .		1
85	The Lucinda Jetty Coastal Observatory's role in satellite ocean colour calibration and validation for Great Barrier Reef coastal waters. , 2010, , .		1
86	Hyperspectral observations of optical properties in lakes in perspective of future satellite sensors "A case study in ITALY. , 2014, , .		1
87	Preface: Oceanographic processes on the continental shelf: observations and modeling. <i>Ocean Science</i> , 2017, 13, 495-501.	3.4	1
88	Trilateral Water Quality Monitoring from Space during Covid-19. , 2021, , .		1
89	Optimizing classification accuracy of estuarine macrophytes: By combining spatial and physics-based image analysis. , 2010, , .		0
90	Inland water quality monitoring in Australia. , 2013, , .		0

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91	Imaging Spectrometry of Inland Water Quality in Italy Using MIVIS: An Overview. Handbook of Environmental Chemistry, 2015, , 61-83.	0.4	0
92	Particulate Optical Properties in the Mediterranean and Black Seas Through Calipso Spaceborne Lidar Measurements. EPJ Web of Conferences, 2020, 237, 01014.	0.3	0
93	Single dual mode (continuous and cast) instrumentation package for inherent optical property measurements: Characterization of the bucket for backscattering observation. Limnology and Oceanography: Methods, 2021, 19, 510-522.	2.0	0
94	Satellite Based Analyses on Potential Effects of the Covid19 Lockdown over Coastal Areas: The ESA-Race Soon Project. , 2021, , .		0
95	“Flex 2018” Cruise: an opportunity to assess phytoplankton chlorophyll fluorescence retrieval at different observative scales. Proceedings E Report, 0, , 688-697.	0.0	0