

Sandro Carniel

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

2,764
citations

159525

30
h-index

206029

48
g-index

101
all docs

101
docs citations

101
times ranked

3066
citing authors

#	ARTICLE	IF	CITATIONS
1	Physical forcing and physical/biochemical variability of the Mediterranean Sea: a review of unresolved issues and directions for future research. <i>Ocean Science</i> , 2014, 10, 281-322.	1.3	154
2	Assessment of wind quality for oceanographic modelling in semi-enclosed basins. <i>Journal of Marine Systems</i> , 2005, 53, 217-233.	0.9	143
3	Exceptional dense water formation on the Adriatic shelf in the winter of 2012. <i>Ocean Science</i> , 2013, 9, 561-572.	1.3	117
4	Coastal accumulation of microplastic particles emitted from the Po River, Northern Italy: Comparing remote sensing and hydrodynamic modelling with in situ sample collections. <i>Marine Pollution Bulletin</i> , 2019, 138, 561-574.	2.3	103
5	Wave-current interaction: Effect on the wave field in a semi-enclosed basin. <i>Ocean Modelling</i> , 2013, 70, 152-165.	1.0	88
6	Variability of Adriatic Sea coastal turbid waters from SeaWiFS imagery. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	82
7	Investigating the impact of surface wave breaking on modeling the trajectories of drifters in the northern Adriatic Sea during a wind-storm event. <i>Ocean Modelling</i> , 2009, 30, 225-239.	1.0	79
8	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.	1.3	78
9	Observation of Extreme Sea Waves in a Space-Time Ensemble. <i>Journal of Physical Oceanography</i> , 2015, 45, 2261-2275.	0.7	75
10	On the use of a coupled ocean-atmosphere-wave model during an extreme cold air outbreak over the Adriatic Sea. <i>Atmospheric Research</i> , 2016, 172-173, 48-65.	1.8	74
11	Po River plume pattern variability investigated from model data. <i>Continental Shelf Research</i> , 2014, 87, 84-95.	0.9	73
12	Northern Adriatic response to a wintertime bora wind event. <i>Eos</i> , 2005, 86, 157.	0.1	69
13	Response of the Adriatic Sea to an intense cold air outbreak: Dense water dynamics and wave-induced transport. <i>Progress in Oceanography</i> , 2014, 128, 115-138.	1.5	69
14	Improving the assessment of wave energy resources by means of coupled wave-ocean numerical modeling. <i>Renewable Energy</i> , 2013, 60, 462-471.	4.3	61
15	Sensitivity of a Mediterranean Tropical-Like Cyclone to Different Model Configurations and Coupling Strategies. <i>Atmosphere</i> , 2017, 8, 92.	1.0	59
16	Scratching beneath the surface while coupling atmosphere, ocean and waves: Analysis of a dense water formation event. <i>Ocean Modelling</i> , 2016, 101, 101-112.	1.0	52
17	February 2003 marine atmospheric conditions and the bora over the northern Adriatic. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	49
18	Statistical trend analysis and extreme distribution of significant wave height from 1958 to 1999 - an application to the Italian Seas. <i>Ocean Science</i> , 2010, 6, 525-538.	1.3	48

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19	Dynamics of particles along the western margin of the Southern Adriatic: Processes involved in transferring particulate matter to the deep basin. <i>Marine Geology</i> , 2016, 375, 28-43.	0.9	46
20	Relative Sea-Level Rise and Potential Submersion Risk for 2100 on 16 Coastal Plains of the Mediterranean Sea. <i>Water (Switzerland)</i> , 2020, 12, 2173.	1.2	46
21	Wave climate of the Adriatic Sea: a future scenario simulation. <i>Natural Hazards and Earth System Sciences</i> , 2012, 12, 2065-2076.	1.5	45
22	Sediment Dynamics in the Adriatic Sea Investigated with Coupled Models. <i>Oceanography</i> , 2004, 17, 58-69.	0.5	43
23	Exploring the bottom stress variability in the Venice Lagoon. <i>Journal of Marine Systems</i> , 2004, 51, 161-178.	0.9	42
24	The response of the Ligurian and Tyrrhenian Seas to a summer Mistral event: A coupled atmosphere-ocean approach. <i>Ocean Modelling</i> , 2012, 48, 30-44.	1.0	40
25	Exceptional Bora outbreak in winter 2012: Validation and analysis of high-resolution atmospheric model simulations in the northern Adriatic area. <i>Dynamics of Atmospheres and Oceans</i> , 2015, 71, 1-20.	0.7	36
26	Interactions among Adriatic continental margin morphology, deep circulation and bedform patterns. <i>Marine Geology</i> , 2016, 375, 82-98.	0.9	36
27	Tracking the drift of a human body in the coastal ocean using numerical prediction models of the oceanic, atmospheric and wave conditions. <i>Science and Justice - Journal of the Forensic Science Society</i> , 2002, 42, 143-151.	1.3	34
28	Stereo wave imaging from moving vessels: Practical use and applications. <i>Coastal Engineering</i> , 2016, 109, 114-127.	1.7	34
29	Qualitative correlation of marine mammals with physical and biological parameters in the ligurian sea. <i>IEEE Journal of Oceanic Engineering</i> , 2003, 28, 29-43.	2.1	32
30	A rapid response nowcast/forecast system using multiply nested ocean models and distributed data systems. <i>Journal of Marine Systems</i> , 2005, 56, 45-66.	0.9	32
31	Off-shelf fluxes across the southern Adriatic margin: Factors controlling dense-water-driven transport phenomena. <i>Marine Geology</i> , 2016, 375, 44-63.	0.9	32
32	Collaboration tools and techniques for large model datasets. <i>Journal of Marine Systems</i> , 2008, 69, 154-161.	0.9	31
33	Validation of turbulence closure parameterisations for stably stratified flows using the PROVESS turbulence measurements in the North Sea. <i>Journal of Sea Research</i> , 2002, 47, 239-267.	0.6	30
34	Multi-Physics Ensemble versus Atmosphere-Ocean Coupled Model Simulations for a Tropical-Like Cyclone in the Mediterranean Sea. <i>Atmosphere</i> , 2019, 10, 202.	1.0	30
35	Modelling ocean currents in the northern Adriatic Sea. <i>Continental Shelf Research</i> , 2014, 87, 54-72.	0.9	29
36	Optimal index related to the shoreline dynamics during a storm: the case of Jesolo beach. <i>Natural Hazards and Earth System Sciences</i> , 2016, 16, 1107-1122.	1.5	29

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37	Improved ocean prediction skill and reduced uncertainty in the coastal region from multi-model super-ensembles. <i>Journal of Marine Systems</i> , 2009, 78, S282-S289.	0.9	27
38	A preliminary estimate of the Stokes dissipation of wave energy in the global ocean. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	26
39	Tracking bottom waters in the Southern Adriatic Sea applying seismic oceanography techniques. <i>Continental Shelf Research</i> , 2012, 44, 30-38.	0.9	26
40	Operational models hierarchy for short term marine predictions: The Adriatic Sea example. , 2013, , .		24
41	Numerical modeling of space-time wave extremes using WAVEWATCH III. <i>Ocean Dynamics</i> , 2017, 67, 535-549.	0.9	24
42	A Note on Modeling Mixing in Stably Stratified Flows. <i>Journals of the Atmospheric Sciences</i> , 2009, 66, 2501-2505.	0.6	23
43	Airâ€“Sea Interaction in the Ligurian Sea: Assessment of a Coupled Oceanâ€“Atmosphere Model Using In Situ Data from LASIE07. <i>Monthly Weather Review</i> , 2011, 139, 1785-1808.	0.5	22
44	Simulation of a flash-flood event over the Adriatic Sea with a high-resolution atmosphereâ€“oceanâ€“wave coupled system. <i>Scientific Reports</i> , 2021, 11, 9388.	1.6	21
45	Space-Based Global Maritime Surveillance. Part I: Satellite Technologies. <i>IEEE Aerospace and Electronic Systems Magazine</i> , 2021, 36, 8-28.	2.3	21
46	Towards validating a last generation, integrated wave-current-sediment numerical model in coastal regions using video measurements. <i>Oceanological and Hydrobiological Studies</i> , 2011, 40, 11-20.	0.3	20
47	Wave-current interaction effect on sediment dispersal in a shallow semi-enclosed basin. <i>Journal of Coastal Research</i> , 2013, 165, 1587-1592.	0.1	20
48	Assessment of Climate Change Impacts in the North Adriatic Coastal Area. Part I: A Multi-Model Chain for the Definition of Climate Change Hazard Scenarios. <i>Water (Switzerland)</i> , 2019, 11, 1157.	1.2	19
49	Assessment of Climate Change Impacts in the North Adriatic Coastal Area. Part II: Consequences for Coastal Erosion Impacts at the Regional Scale. <i>Water (Switzerland)</i> , 2019, 11, 1300.	1.2	18
50	Assessment of meteorological climate models as inputs for coastal studies. <i>Ocean Dynamics</i> , 2012, 62, 555-568.	0.9	17
51	Maritime Anomaly Detection in a Real-World Scenario: <i>Ever Given</i> Grounding in the Suez Canal. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 13904-13910.	4.7	17
52	Turbulence variability in the upper layers of the Southern Adriatic Sea under a variety of atmospheric forcing conditions. <i>Continental Shelf Research</i> , 2012, 44, 39-56.	0.9	16
53	Coupled Wave-2D Hydrodynamics Modeling at the Reno River Mouth (Italy) under Climate Change Scenarios. <i>Water (Switzerland)</i> , 2018, 10, 1380.	1.2	16
54	Variational analysis of drifter positions and model outputs for the reconstruction of surface currents in the central Adriatic during fall 2002. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	15

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55	Modelling wave-driven sediment transport in a changing climate: a case study for northern Adriatic Sea (Italy). <i>Regional Environmental Change</i> , 2015, 15, 45-55.	1.4	15
56	Climate change impacts on marine water quality: The case study of the Northern Adriatic sea. <i>Marine Pollution Bulletin</i> , 2016, 102, 271-282.	2.3	15
57	Wind storminess in the Adriatic Sea in a climate change scenario. <i>Acta Adriatica</i> , 2018, 58, 195-208.	0.2	15
58	Climatology of the Northern-Central Adriatic Sea. , 0, , .		15
59	A Unified Approach to the Modelling of the Venice Lagoon â€“ Adriatic Sea Ecosystem. <i>Estuarine, Coastal and Shelf Science</i> , 1998, 46, 483-492.	0.9	14
60	Spaceâ€“Time Wave Extremes: The Role of Metocean Forcings. <i>Journal of Physical Oceanography</i> , 2015, 45, 1897-1916.	0.7	14
61	Framing Continental Shelf Waves in the southern Adriatic Sea, a further flushing factor beyond dense water cascading. <i>Scientific Reports</i> , 2018, 8, 660.	1.6	14
62	Space-Based Global Maritime Surveillance. Part II: Artificial Intelligence and Data Fusion Techniques. <i>IEEE Aerospace and Electronic Systems Magazine</i> , 2021, 36, 30-42.	2.3	14
63	Wind waves in the Adriatic Sea under a severe climate change scenario and implications for the coasts. <i>International Journal of Climatology</i> , 2020, 40, 5389-5406.	1.5	13
64	CMEMS-Based Coastal Analyses: Conditioning, Coupling and Limits for Applications. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	13
65	Comments on "A generic length-scale equation for geophysical turbulence models" by L. Umlauf and H. Burchard. <i>Journal of Marine Research</i> , 2003, 61, 693-702.	0.3	12
66	Exploring the thermal cycle of the Northern North Sea area using a 3-D circulation model: the example of PROVESS NNS station. <i>Journal of Sea Research</i> , 2002, 48, 271-286.	0.6	10
67	Wave extreme characterization using self-organizing maps. <i>Ocean Science</i> , 2016, 12, 403-415.	1.3	10
68	A note on Tennekes hypothesis and its impact on second moment closure models. <i>Ocean Modelling</i> , 2005, 9, 23-29.	1.0	9
69	Sensitivity of a coupled physicalâ€“biological model to turbulence: high-frequency simulations in a northern Adriatic station. <i>Chemistry and Ecology</i> , 2007, 23, 157-175.	0.6	9
70	Sensitivity analysis of a robust diagnostic general circulation model of the Ross Sea. <i>Journal of Marine Systems</i> , 2000, 27, 3-36.	0.9	8
71	Doubleâ€“diffusive layers in the Adriatic Sea. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	8
72	Turbulence observations in the Gulf of Trieste under moderate wind forcing and different water column stratification. <i>Ocean Science</i> , 2016, 12, 433-449.	1.3	8

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73	Sediment transport modifications induced by submerged artificial reef systems: a case study for the Gulf of Venice. <i>Oceanological and Hydrobiological Studies</i> , 2014, 43, 7-20.	0.3	7
74	Massive shelf dense water flow influences plankton community structure and particle transport over long distance. <i>Scientific Reports</i> , 2018, 8, 4554.	1.6	7
75	Multi-view horizon-driven sea plane estimation for stereo wave imaging on moving vessels. <i>Computers and Geosciences</i> , 2016, 95, 105-117.	2.0	6
76	Towards an Operational Stereo System for Directional Wave Measurements From Moving Platforms. , 2014, , .		5
77	A note on modeling double diffusive mixing in the global ocean. <i>Ocean Modelling</i> , 2011, 36, 40-48.	1.0	4
78	Spring 2009 water mass distribution, mixing and transport in the southern Adriatic after a low production of winter dense waters. <i>Continental Shelf Research</i> , 2013, 64, 33-50.	0.9	4
79	Italian seas wave extremes: a preliminary assessment. <i>Rendiconti Lincei</i> , 2015, 26, 25-35.	1.0	4
80	Stochastic Space-Time Extremes of Wind Sea States: Validation and Modeling. , 2014, , .		4
81	Synthetic Modeling for an Acoustic Exploration System for Physical Oceanography. <i>Journal of Atmospheric and Oceanic Technology</i> , 2016, 33, 191-200.	0.5	2
82	PREDICTING SEDIMENT TRANSPORT AT COASTAL STRUCTURES: AN INTEGRATED MODEL APPROACH. , 2009, , .		1
83	Seismic oceanography imaging of thermal intrusions in strong frontal regions. <i>Proceedings of Meetings on Acoustics</i> , 2013, , .	0.3	1
84	Preface: Oceanographic processes on the continental shelf: observations and modeling. <i>Ocean Science</i> , 2017, 13, 495-501.	1.3	1
85	ARTIFICIAL DEVIATION OF A SMALL INLET (BEVANO, NORTHERN ITALY): PREDICTION OF FUTURE EVOLUTION AND PLANNING OF MANAGEMENT STRATEGIES USING OPEN-SOURCE COMMUNITY COASTAL MODELS. <i>Coastal Engineering Proceedings</i> , 2012, 1, 57.	0.1	1
86	Particulate Matter in the Ross Sea: a Spreading Model. <i>Marine Ecology</i> , 2002, 23, 395-410.	0.4	0
87	On the use of a simple primary productivity model to assess the skill of a physical ocean model. <i>Oceanological and Hydrobiological Studies</i> , 2011, 40, 86-95.	0.3	0
88	Exploring the shelf-slope dynamics in the Adriatic Sea using numerical models and seismic oceanography (SO). <i>Proceedings of Meetings on Acoustics</i> , 2013, , .	0.3	0