Xiao-Hai Yan

List of Publications by Year
in descending order

77 papers	2,001 citations	279798 23 h-index	276875 41 g-index
77 all docs	77 docs citations	77 times ranked	1681 citing authors

#	Article	IF	Citations
1	Reconstructing High-Resolution Ocean Subsurface and Interior Temperature and Salinity Anomalies From Satellite Observations. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	14
2	A Neural Network Method for Retrieving Sea Surface Wind Speed for C-Band SAR. Remote Sensing, 2022, 14, 2269.	4.0	4
3	Remote Sensing for Subsurface and Deeper Oceans: An overview and a future outlook. IEEE Geoscience and Remote Sensing Magazine, 2022, 10, 72-92.	9.6	6
4	Subsurface Temperature Reconstruction for the Global Ocean from 1993 to 2020 Using Satellite Observations and Deep Learning. Remote Sensing, 2022, 14, 3198.	4.0	19
5	Recent Shift in the Warming of the Southern Oceans Modulated by Decadal Climate Variability. Geophysical Research Letters, 2021, 48, e2020GL090889.	4.0	6
6	Far-Field Impacts of a Super Typhoon on Upper Ocean Phytoplankton Dynamics. Frontiers in Marine Science, 2021, 8, .	2.5	13
7	Climatic Variation of Maximum Intensification Rate for Major Tropical Cyclones over the Western North Pacific. Atmosphere, 2021, 12, 494.	2.3	3
8	HISEA-1: The First C-Band SAR Miniaturized Satellite for Ocean and Coastal Observation. Remote Sensing, 2021, 13, 2076.	4.0	15
9	Predicting subsurface thermohaline structure from remote sensing data based on long short-term memory neural networks. Remote Sensing of Environment, 2021, 260, 112465.	11.0	49
10	Super-resolution of subsurface temperature field from remote sensing observations based on machine learning. International Journal of Applied Earth Observation and Geoinformation, 2021, 102, 102440.	2.8	25
11	Comparison of the application of co- and cross-polarized sentinel-1 synthetic aperture radar data to tropical cyclone evaluation. Remote Sensing Letters, 2021, 12, 229-238.	1.4	1
12	Reconstruction of Threeâ€Dimensional Temperature and Salinity Fields From Satellite Observations. Journal of Geophysical Research: Oceans, 2021, 126, e2021JC017605.	2.6	18
13	OPEN: A New Estimation of Global Ocean Heat Content for Upper 2000 Meters from Remote Sensing Data. Remote Sensing, 2020, 12, 2294.	4.0	30
14	Significant wave height retrieval from Sentinel-1 SAR imagery by convolutional neural network. Journal of Oceanography, 2020, 76, 465-477.	1.7	17
15	Impacts of the upper-ocean salinity variations on the decadal sea level change in the Southeast Indian Ocean during the Argo era. Acta Oceanologica Sinica, 2020, 39, 1-10.	1.0	6
16	Variability of the Shallow Overturning Circulation in the Indian Ocean. Journal of Geophysical Research: Oceans, 2020, 125, e2019JC015651.	2.6	9
17	Prediction of 3-D Ocean Temperature by Multilayer Convolutional LSTM. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1303-1307.	3.1	62
18	Ocean surface current retrieval at Hangzhou Bay from Himawari-8 sequential satellite images. Science China Earth Sciences, 2020, 63, 1026-1038.	5.2	4

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19	Similarity and Difference in Interannual Sea Level Variations Between the Midâ€Atlantic Bight and the Nova Scotia Coast. Journal of Geophysical Research: Oceans, 2020, 125, e2019JC015919.	2.6	2
20	Estimating Subsurface Thermohaline Structure of the Global Ocean Using Surface Remote Sensing Observations. Remote Sensing, 2019, 11, 1598.	4.0	48
21	Decadal Sea Level Variability in the Pacific Ocean: Origins and Climate Mode Contributions. Journal of Atmospheric and Oceanic Technology, 2019, 36, 689-698.	1.3	12
22	Previously unidentified Indonesian Throughflow pathways and freshening in the Indian Ocean during recent decades. Scientific Reports, 2019, 9, 7364.	3.3	24
23	Subsurface temperature estimation from remote sensing data using a clustering-neural network method. Remote Sensing of Environment, 2019, 229, 213-222.	11.0	70
24	A Study of the Intensity of Tropical Cyclone Idai Using Dual-Polarization Sentinel-1 Data. Remote Sensing, 2019, 11, 2837.	4.0	18
25	Estimating Ocean Subsurface Salinity from Remote Sensing Data by Machine Learning. , 2019, , .		5
26	New findings on the route of heat transport between the Indo-Pacific and Southern Ocean. Climate Dynamics, 2019, 52, 5145-5151.	3.8	3
27	Variability of the Labrador Sea Surface Eddy Kinetic Energy Observed by Altimeter From 1993 to 2012. Journal of Geophysical Research: Oceans, 2018, 123, 601-612.	2.6	5
28	Retrieving Temperature Anomaly in the Global Subsurface and Deeper Ocean From Satellite Observations. Journal of Geophysical Research: Oceans, 2018, 123, 399-410.	2.6	60
29	Warming in the Agulhas Region during the Global Surface Warming Acceleration and Slowdown. Scientific Reports, 2018, 8, 13452.	3.3	2
30	Retrieving Ocean Subsurface Temperature Using a Satelliteâ€Based Geographically Weighted Regression Model. Journal of Geophysical Research: Oceans, 2018, 123, 5180-5193.	2.6	27
31	The role of coastal-trapped waves on the 2008 cold disaster in the Taiwan Strait. Ocean Dynamics, 2017, 67, 611-619.	2.2	4
32	The Subpolar North Atlantic Ocean Heat Content Variability and its Decomposition. Scientific Reports, 2017, 7, 13748.	3.3	7
33	Decadal Western Pacific Warm Pool Variability: A Centroid and Heat Content Study. Scientific Reports, 2017, 7, 13141.	3.3	12
34	Inconsistent Subsurface and Deeper Ocean Warming Signals During Recent Global Warming and Hiatus. Journal of Geophysical Research: Oceans, 2017, 122, 8182-8195.	2.6	17
35	The horizontal heat advection in the M iddle A tlantic B ight and the crossâ€spectral interactions within the heat advection. Journal of Geophysical Research: Oceans, 2017, 122, 5652-5665.	2.6	2
36	The global warming hiatus: Slowdown or redistribution?. Earth's Future, 2016, 4, 472-482.	6.3	134

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37	Performance assessment for an operational ocean model of the Taiwan Strait. Ocean Modelling, 2016, 102, 27-44.	2.4	21
38	Characterization of the Variability of the South Pacific Convergence Zone Using Satellite and Reanalysis Wind Products. Journal of Climate, 2016, 29, 1717-1732.	3.2	17
39	Climate Signals in the Mid- to High-Latitude North Atlantic from Altimeter Observations. Journal of Climate, 2016, 29, 4905-4925.	3.2	9
40	The coastal ocean response to the global warming acceleration and hiatus. Scientific Reports, 2015, 5, 16630.	3.3	54
41	The modulation of the seasonal crossâ€shelf sea level variation by the cold pool in the Middle Atlantic Bight. Journal of Geophysical Research: Oceans, 2015, 120, 7182-7194.	2.6	15
42	A case study of large phytoplankton blooms off the New Jersey coast with multi-sensor observations. Continental Shelf Research, 2015, 107, 79-91.	1.8	3
43	Classification of MODIS images combining surface temperature and texture features using the Support Vector Machine method for estimation of the extent of sea ice in the frozen Bohai Bay, China. International Journal of Remote Sensing, 2015, 36, 2734-2750.	2.9	18
44	Estimation of subsurface temperature anomaly in the Indian Ocean during recent global surface warming hiatus from satellite measurements: A support vector machine approach. Remote Sensing of Environment, 2015, 160, 63-71.	11.0	77
45	Winter bloom and associated upwelling northwest of the <scp>L</scp>uzon <scp>I</scp>sland: A coupled physicalâ€biological modeling approach. Journal of Geophysical Research: Oceans, 2015, 120, 533-546.	2.6	43
46	Varying temperature and heat content signatures in the central Labrador Sea at different layers and timescales. Deep-Sea Research Part I: Oceanographic Research Papers, 2015, 103, 114-124.	1.4	3
47	Lateral Heat Exchange after the Labrador Sea Deep Convection in 2008. Journal of Physical Oceanography, 2014, 44, 2991-3007.	1.7	8
48	Subsurface and deeper ocean remote sensing from satellites: An overview and new results. Progress in Oceanography, 2014, 122, 1-9.	3.2	68
49	Coastal cape and canyon effects on windâ€driven upwelling in northern Taiwan Strait. Journal of Geophysical Research: Oceans, 2014, 119, 4605-4625.	2.6	20
50	A New Method for Tracking Meddies by Satellite Altimetry. Journal of Atmospheric and Oceanic Technology, 2014, 31, 1434-1445.	1.3	13
51	A closer look at the central Pacific El NiÃ±o and warm pool migration events from 1982 to 2011. Journal of Geophysical Research: Oceans, 2014, 119, 165-172.	2.6	9
52	Estimation of Subsurface Temperature Anomaly in the North Atlantic Using a Self-Organizing Map Neural Network. Journal of Atmospheric and Oceanic Technology, 2012, 29, 1675-1688.	1.3	65
53	On the variations of sea surface pCO₂ in the northern South China Sea: A remote sensing based neural network approach. Journal of Geophysical Research, 2012, 117, .	3.3	27
54	A dipole pattern of the sea surface height anomaly in the North Atlantic: 1990sâ€“2000s. Geophysical Research Letters, 2012, 39, .	4.0	15

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55	Synoptic measurements of episodic offshore flow events in the central mid-Atlantic Bight. Continental Shelf Research, 2010, 30, 1373-1386.	1.8	15
56	Seasonal differences in windâ€driven acrossâ€shelf forcing and response relationships in the shelf surface layer of the central Midâ€Atlantic Bight. Journal of Geophysical Research, 2009, 114, .	3.3	19
57	Impact of the Three Gorges Dam water storage on the Yangtze River outflow into the East China Sea. Geophysical Research Letters, 2008, 35, .	4.0	19
58	Ecological anomalies in the East China Sea: Impacts of the Three Gorges Dam?. Water Research, 2007, 41, 1287-1293.	11.3	138
59	A New Study of the Mediterranean Outflow, Airâ€“Sea Interactions, and Meddies Using Multisensor Data. Journal of Physical Oceanography, 2006, 36, 691-710.	1.7	23
60	A study of the freshwater discharge from the Amazon River into the tropical Atlantic using multi-sensor data. Geophysical Research Letters, 2005, 32, .	4.0	9
61	Sensible and latent heat flux in the tropical Pacific from satellite multi-sensor data. Remote Sensing of Environment, 2004, 90, 166-177.	11.0	10
62	Role of winds in estimation of ocean heat storage anomaly using satellite data. Journal of Geophysical Research, 2004, 109, .	3.3	6
63	Hurricane forcing on chlorophyll-a concentration off the northeast coast of the U.S.. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	49
64	Atmospheric front over the East China Sea studied by multisensor satellite and in situ data. Journal of Geophysical Research, 2004, 109, .	3.3	11
65	Calculation of the Bowen ratio in the tropical Pacific using sea surface temperature data. Journal of Geophysical Research, 2002, 107, 17-1.	3.3	8
66	Pacific warm pool excitation, earth rotation and El NiÃ±o southern oscillations. Geophysical Research Letters, 2002, 29, 27-1.	4.0	15
67	Ocean Internal Wave Observations Using Space Shuttle and Satellite Imagery. Geocarto International, 2001, 16, 53-58.	3.5	3
68	Observations of East Coast upwelling conditions in synthetic aperture radar imagery. IEEE Transactions on Geoscience and Remote Sensing, 1999, 37, 2239-2248.	6.3	32
69	A Neural Network Model for Estimating Sea Surface Chlorophyll and Sediments from Thematic Mapper Imagery. Remote Sensing of Environment, 1998, 66, 153-165.	11.0	218
70	Centroid Motion of the Western Pacific Warm Pool during Three Recent El NiÃ±oâ€“Southern Oscillation Events. Journal of Physical Oceanography, 1997, 27, 837-845.	1.7	27
71	Seasonal and interannual variability of atmospheric convergence zones in the tropical Pacific observed with ERS-1 scatterometer. Geophysical Research Letters, 1997, 24, 261-263.	4.0	26
72	Satellite Observations of Upper-Layer Variabilities in the Western Pacific Warm Pool. Bulletin of the American Meteorological Society, 1995, 76, 669-679.	3.3	44

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73	Development of the pattern recognition and the spatial integration filtering methods for analyzing satellite altimeter data. Remote Sensing of Environment, 1994, 48, 147-158.	11.0	6
74	The Effects of Shear Flow on Propagation of Rossby Waves in the Equatorial Oceans. Journal of Physical Oceanography, 1994, 24, 1680-1686.	1.7	20
75	Threeâ€dimensional analytical model for the mixed layer depth. Journal of Geophysical Research, 1992, 97, 20201-20226.	3.3	17
76	An analytical model for remote sensing determination of the mixed layer depth. Deep-sea Research Part A, Oceanographic Research Papers, 1991, 38, 267-287.	1.5	17
77	Oceanic upper mixed layer depth determination by the use of satellite data. Remote Sensing of Environment, 1990, 32, 55-74.	11.0	31