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	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
2	Ecological anomalies in the East China Sea: Impacts of the Three Gorges Dam?. Water Research, 2007, 41, 1287-1293.	11.3	138
3	The global warming hiatus: Slowdown or redistribution?. Earth's Future, 2016, 4, 472-482.	6.3	134
4	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
5	Subsurface temperature estimation from remote sensing data using a clustering-neural network method. Remote Sensing of Environment, 2019, 229, 213-222.	11.0	70
6	Subsurface and deeper ocean remote sensing from satellites: An overview and new results. Progress in Oceanography, 2014, 122, 1-9.	3.2	68
7	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
8	Prediction of 3-D Ocean Temperature by Multilayer Convolutional LSTM. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1303-1307.	3.1	62
9	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
10	The coastal ocean response to the global warming acceleration and hiatus. Scientific Reports, 2015, 5, 16630.	3.3	54
11	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
12	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
13	Estimating Subsurface Thermohaline Structure of the Global Ocean Using Surface Remote Sensing Observations. Remote Sensing, 2019, 11, 1598.	4.0	48
14	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
15	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
16	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
17	Oceanic upper mixed layer depth determination by the use of satellite data. Remote Sensing of Environment, 1990, 32, 55-74.	11.0	31
18	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

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19	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
20	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
21	Retrieving Ocean Subsurface Temperature Using a Satelliteâ€Based Geographically Weighted Regression Model. Journal of Geophysical Research: Oceans, 2018, 123, 5180-5193.	2.6	27
22	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
23	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
24	Previously unidentified Indonesian Throughflow pathways and freshening in the Indian Ocean during recent decades. Scientific Reports, 2019, 9, 7364.	3.3	24
25	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
26	Performance assessment for an operational ocean model of the Taiwan Strait. Ocean Modelling, 2016, 102, 27-44.	2.4	21
27	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
28	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
29	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
30	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
31	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
32	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
33	A Study of the Intensity of Tropical Cyclone Idai Using Dual-Polarization Sentinel-1 Data. Remote Sensing, 2019, 11, 2837.	4.0	18
34	Reconstruction of Threeâ€Dimensional Temperature and Salinity Fields From Satellite Observations. Journal of Geophysical Research: Oceans, 2021, 126, e2021JC017605.	2.6	18
35	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
36	Threeâ€dimensional analytical model for the mixed layer depth. Journal of Geophysical Research, 1992, 97, 20201-20226.	3.3	17

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37	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
38	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
39	Significant wave height retrieval from Sentinel-1 SAR imagery by convolutional neural network. Journal of Oceanography, 2020, 76, 465-477.	1.7	17
40	Pacific warm pool excitation, earth rotation and El NiÃ±o southern oscillations. Geophysical Research Letters, 2002, 29, 27-1.	4.0	15
41	Synoptic measurements of episodic offshore flow events in the central mid-Atlantic Bight. Continental Shelf Research, 2010, 30, 1373-1386.	1.8	15
42	A dipole pattern of the sea surface height anomaly in the North Atlantic: 1990sâ€“2000s. Geophysical Research Letters, 2012, 39, .	4.0	15
43	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
44	HISEA-1: The First C-Band SAR Miniaturized Satellite for Ocean and Coastal Observation. Remote Sensing, 2021, 13, 2076.	4.0	15
45	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
46	A New Method for Tracking Meddies by Satellite Altimetry. Journal of Atmospheric and Oceanic Technology, 2014, 31, 1434-1445.	1.3	13
47	Far-Field Impacts of a Super Typhoon on Upper Ocean Phytoplankton Dynamics. Frontiers in Marine Science, 2021, 8, .	2.5	13
48	Decadal Western Pacific Warm Pool Variability: A Centroid and Heat Content Study. Scientific Reports, 2017, 7, 13141.	3.3	12
49	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
50	Atmospheric front over the East China Sea studied by multisensor satellite and in situ data. Journal of Geophysical Research, 2004, 109, .	3.3	11
51	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
52	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
53	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
54	Climate Signals in the Mid- to High-Latitude North Atlantic from Altimeter Observations. Journal of Climate, 2016, 29, 4905-4925.	3.2	9

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55	Variability of the Shallow Overturning Circulation in the Indian Ocean. Journal of Geophysical Research: Oceans, 2020, 125, e2019JC015651.	2.6	9
56	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
57	Lateral Heat Exchange after the Labrador Sea Deep Convection in 2008. Journal of Physical Oceanography, 2014, 44, 2991-3007.	1.7	8
58	The Subpolar North Atlantic Ocean Heat Content Variability and its Decomposition. Scientific Reports, 2017, 7, 13748.	3.3	7
59	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
60	Role of winds in estimation of ocean heat storage anomaly using satellite data. Journal of Geophysical Research, 2004, 109, .	3.3	6
61	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
62	Recent Shift in the Warming of the Southern Oceans Modulated by Decadal Climate Variability. Geophysical Research Letters, 2021, 48, e2020GL090889.	4.0	6
63	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
64	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
65	Estimating Ocean Subsurface Salinity from Remote Sensing Data by Machine Learning. , 2019, , .		5
66	The role of coastal-trapped waves on the 2008 cold disaster in the Taiwan Strait. Ocean Dynamics, 2017, 67, 611-619.	2.2	4
67	Ocean surface current retrieval at Hangzhou Bay from Himawari-8 sequential satellite images. Science China Earth Sciences, 2020, 63, 1026-1038.	5.2	4
68	A Neural Network Method for Retrieving Sea Surface Wind Speed for C-Band SAR. Remote Sensing, 2022, 14, 2269.	4.0	4
69	Ocean Internal Wave Observations Using Space Shuttle and Satellite Imagery. Geocarto International, 2001, 16, 53-58.	3.5	3
70	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
71	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
72	New findings on the route of heat transport between the Indo-Pacific and Southern Ocean. Climate Dynamics, 2019, 52, 5145-5151.	3.8	3

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73	Climatic Variation of Maximum Intensification Rate for Major Tropical Cyclones over the Western North Pacific. Atmosphere, 2021, 12, 494.	2.3	3
74	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
75	Warming in the Agulhas Region during the Global Surface Warming Acceleration and Slowdown. Scientific Reports, 2018, 8, 13452.	3.3	2
76	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
77	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