Xiaofeng Yang

List of Publications by Year
in descending order

101	1,666	279798	302126
papers	citations	23	39
		h-index	g-index

101	101	101	1416
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Tropical Cyclone Morphology from Spaceborne Synthetic Aperture Radar. Bulletin of the American Meteorological Society, 2013, 94, 215-230.	3.3	134
2	Comparison of Ocean Surface Winds From ENVISAT ASAR, MetOp ASCAT Scatterometer, Buoy Measurements, and NOGAPS Model. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 4743-4750.	6.3	128
3	Satellite altimeter observations of nonlinear Rossby eddyâ€"Kuroshio interaction at the Luzon Strait. Journal of Oceanography, 2011, 67, 365-376.	1.7	125
4	Comparison of Ocean-Surface Winds Retrieved From QuikSCAT Scatterometer and Radarsat-1 SAR in Offshore Waters of the U.S. West Coast. IEEE Geoscience and Remote Sensing Letters, 2011, 8, 163-167.	3.1	88
5	A Hurricane Wind Speed Retrieval Model for C-Band RADARSAT-2 Cross-Polarization ScanSAR Images. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 4766-4774.	6.3	87
6	Sea Surface Wind Speed Retrieval from the First Chinese GNSS-R Mission: Technique and Preliminary Results. Remote Sensing, 2019, 11, 3013.	4.0	86
7	A Systematic Comparison of the Effect of Polarization Ratio Models on Sea Surface Wind Retrieval From C-Band Synthetic Aperture Radar. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 1100-1108.	4.9	59
8	Bathymetry Retrieval From Hyperspectral Remote Sensing Data in Optical-Shallow Water. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 1205-1212.	6.3	56
9	Mesoscale Eddies in the Northwestern Pacific Ocean: Threeâ€Dimensional Eddy Structures and Heat/Salt Transports. Journal of Geophysical Research: Oceans, 2017, 122, 9795-9813.	2.6	53
10	Development of a Dual-Attention U-Net Model for Sea Ice and Open Water Classification on SAR Images. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	45
11	A Comprehensive Analysis of Rough Soil Surface Scattering and Emission Predicted by AIEM With Comparison to Numerical Simulations and Experimental Measurements. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 1696-1708.	6.3	44
12	Bridging the gap between cyclone wind and wave by <scp>C</scp>â€band <scp>SAR</scp> measurements. Journal of Geophysical Research: Oceans, 2017, 122, 6714-6724.	2.6	41
13	Classification of the Yellow River delta area using fully polarimetric SAR measurements. International Journal of Remote Sensing, 2017, 38, 6714-6734.	2.9	39
14	Coexistence of Atmospheric Gravity Waves and Boundary Layer Rolls Observed by SAR*. Journals of the Atmospheric Sciences, 2013, 70, 3448-3459.	1.7	36
15	SAR Observation of Eddy-Induced Mode-2 Internal Solitary Waves in the South China Sea. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 6674-6686.	6.3	35
16	Estimation of tropical cyclone parameters and wind fields from SAR images. Science China Earth Sciences, 2013, 56, 1977-1987.	5.2	33
17	A Fully Polarimetric SAR Imagery Classification Scheme for Mud and Sand Flats in Intertidal Zones. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 1734-1742.	6.3	33
18	An Improved Spectrum Model for Sea Surface Radar Backscattering at L-Band. Remote Sensing, 2017, 9, 776.	4.0	32

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19	Estimation of Marine Primary Productivity From Satellite-Derived Phytoplankton Absorption Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 3084-3092.	4.9	27
20	Preliminary validation of ocean surface vector winds estimated from China's HY-2A scatterometer. International Journal of Remote Sensing, 2014, 35, 4532-4543.	2.9	27
21	Deep‐water bathymetric features imaged by spaceborne SAR in the Gulf Stream region. Geophysical Research Letters, 2010, 37, .	4.0	25
22	Sea surface imprints of coastal mountain lee waves imaged by synthetic aperture radar. Journal of Geophysical Research, 2011, 116, .	3.3	25
23	Coastal Zone Classification With Fully Polarimetric SAR Imagery. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1616-1620.	3.1	25
24	Deep‐water seamount wakes on SEASAT SAR image in the Gulf Stream region. Geophysical Research Letters, 2012, 39, .	4.0	20
25	Radar Response of Off-Specular Bistatic Scattering to Soil Moisture and Surface Roughness at L-Band. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1945-1949.	3.1	19
26	Identification of Tropical Cyclone Centers in SAR Imagery Based on Template Matching and Particle Swarm Optimization Algorithms. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 598-608.	6.3	19
27	Assimilation of HY-2A scatterometer sea surface wind data in a 3DVAR data assimilation system—A case study of Typhoon Bolaven. Frontiers of Earth Science, 2015, 9, 192-201.	2.1	18
28	Assimilation of Typhoon Wind Field Retrieved from Scatterometer and SAR Based on the Huber Norm Quality Control. Remote Sensing, 2017, 9, 987.	4.0	18
29	Effects of Wind Wave Spectra on Radar Backscatter From Sea Surface at Different Microwave Bands: A Numerical Study. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 6325-6334.	6.3	18
30	Merging Satellite Ocean Color Data With Bayesian Maximum Entropy Method. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 3294-3304.	4.9	14
31	Ocean Surface Wind Retrieval Using SMAP L-Band SAR. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 65-74.	4.9	13
32	Objective Estimation of Tropical Cyclone Intensity from Active and Passive Microwave Remote Sensing Observations in the Northwestern Pacific Ocean. Remote Sensing, 2019, 11, 627.	4.0	13
33	Merging daily sea surface temperature data from multiple satellites using a Bayesian maximum entropy method. Frontiers of Earth Science, 2015, 9, 722-731.	2.1	12
34	Radar Backscattering Over Sea Surface Oil Emulsions: Simulation and Observation. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	12
35	Atmospheric frontal gravity waves observed in satellite SAR images of the Bohai Sea and Huanghai Sea. Acta Oceanologica Sinica, 2010, 29, 35-43.	1.0	11
36	Assimilation of Sentinel-1 Derived Sea Surface Winds for Typhoon Forecasting. Remote Sensing, 2017, 9, 845.	4.0	11

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37	Satellite observations of the partial pressure of carbon dioxide in the surface water of the Huanghai Sea and the Bohai Sea. Acta Oceanologica Sinica, 2012, 31, 67-73.	1.0	10
38	Assimilation of SMOS Sea Surface Salinity in the Regional Ocean Model for South China Sea. Remote Sensing, 2019, 11, 919.	4.0	9
39	Electromagnetic Scattering and Emission From Large Rough Surfaces With Multiple Elevations Using the MLSD-SMCG Method. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 5393-5406.	6.3	9
40	Microwave Satellite Measurements for Coastal Area and Extreme Weather Monitoring. Remote Sensing, 2021, 13, 3126.	4.0	9
41	Synergistic Use of Satellite Observations and Numerical Weather Model to Study Atmospheric Occluded Fronts. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 5269-5279.	6.3	8
42	Retrieval of sea surface winds under hurricane conditions from GNSS-R observations. Acta Oceanologica Sinica, 2016, 35, 91-97.	1.0	8
43	Sea Fetch Observed by Synthetic Aperture Radar. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 272-279.	6.3	8
44	Detection of Bivalve Beds on Exposed Intertidal Flats Using Polarimetric SAR Indicators. Remote Sensing, 2017, 9, 1047.	4.0	8
45	An improved wind speed algorithm for â€œJason-1â€•altimeter under tropical cyclone conditions. Acta Oceanologica Sinica, 2014, 33, 83-88.	1.0	7
46	Effect of Bispectrum on Radar Backscattering From Non-Gaussian Sea Surface. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 4367-4378.	4.9	7
47	Depolarized Scattering of Rough Surface With Dielectric Inhomogeneity and Spatial Anisotropy. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 47-59.	6.3	7
48	Effects of Temperature on Sea Surface Radar Backscattering Under Neutral and Nonneutral Atmospheric Conditions for Wind Retrieval Applications: A Numerical Study. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 2727-2743.	6.3	7
49	Simulation and Analysis of Bistatic Radar Scattering From Oil-Covered Sea Surface. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	6.3	7
50	Impact of rain-induced sea surface roughness variations on salinity retrieval from the Aquarius/SAC-D satellite. Acta Oceanologica Sinica, 2015, 34, 89-96.	1.0	6
51	A generally applicable noise-estimating method for remote sensing images. Remote Sensing Letters, 2014, 5, 481-490.	1.4	5
52	Estimation of Surface Air Specific Humidity and Airâ€"Sea Latent Heat Flux Using FY-3C Microwave Observations. Remote Sensing, 2019, 11, 466.	4.0	5
53	An Improved Asymmetric Hurricane Parametric Model Based on Cross-Polarization SAR Observations. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 1411-1422.	4.9	5
54	Single Channel Physical Method for Retrieving Sea Surface Temperature and Its Sensitivity Analysis. , 2010, , .		4

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55	An Improved Model for L-Band Brightness Temperature Estimation Over Foam-Covered Seas Under Low and Moderate Winds. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 3784-3793.	4.9	4
56	Study on direction dependence of the fully polarimetric wind-induced ocean emissivity at L-band using a semi-theoretical approach for Aquarius and SMAP observations. Remote Sensing of Environment, 2021, 265, 112661.	11.0	4
57	Sensitivity analysis and validation of the single channel physical method for retrieving sea surface temperature. Hongwai Yu Haomibo Xuebao/Journal of Infrared and Millimeter Waves, 2012, 31, 91-96.	0.2	4
58	Assessment of uncertainties of ocean color parameters for the ocean Carbon-based Productivity Model. IOP Conference Series: Earth and Environmental Science, 2014, 17, 012102.	0.3	3
59	Studies on delay-Doppler mapping of GNSS-R signals. Proceedings of SPIE, 2015, , .	0.8	3
60	Uncertainties in directional offshore wind distribution estimate from satellite remote sensing. , 2016, , .		3
61	Assessing the uncertainties of phytoplankton absorption-based model estimates of marine net primary productivity. Acta Oceanologica Sinica, 2017, 36, 112-121.	1.0	3
62	RANDOM FOREST CLASSIFICATION OF SEDIMENTS ON EXPOSED INTERTIDAL FLATS USING ALOS-2 QUAD-POLARIMETRIC SAR DATA. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLI-B8, 1191-1194.	0.2	3
63	A Nonparametric Tropical Cyclone Wind Speed Estimation Model Based on Dual-Polarization SAR Observations. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	6.3	3
64	CBERS-02 Remote Sensing Data Mining Using Decision Tree Algorithm. , 2008, , .		2
65	Spaceborne sar imaging of coastal ocean phenomena. , 2010, , .		2
66	Classification of Sea Ice Based on Fuzzy Clustering with Spatial Information. , 2010, , .		2
67	Ocean surface response to hurricanes observed by SAR. , 2012, , .		2
68	The impact of vertical wind shear on the hurricane eye tilt at the sea and cloud levels. , 2013, , .		2
69	Assimilation of SAR-Derived Sea Surface Winds Into Typhoon Forecast Model. , 2018, , .		2
70	Retrieval of Winds and Waves from Synthetic Aperture Radar Imagery. , 2019, , 285-303.		2
71	Tropical Cyclone Intensity Estimation From Spaceborne Microwave Scatterometry and Parametric Wind Models. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 4719-4729.	4.9	2
72	NOAA operational SAR sea surface wind products. , 2011, , .		1

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73	The impact of ocean surface features on the high resolution wind retrieval from SAR. , 2011, , .		1
74	On the role of wind modulation of internal solitary wave signatures in SAR images. , 2012, , .		1
75	Evaluating and correcting rain effects on dual-frequency altimeter Jason-1 wind measurements. Chinese Journal of Oceanology and Limnology, 2013, 31, 917-924.	0.7	1
76	Validation of sea surface wind vecter retrieval from China's HY-2A Scatterometer. , 2013, , .		1
77	Sea ice small-scale surface roughness estimation based on AMSR-E observations. International Journal of Remote Sensing, 2013, 34, 4425-4448.	2.9	1
78	Fetch imaged by SAR and simulated by WRF model. , 2015, , .		1
79	A rapid atmospheric correction model for L-band microwave radiometer under the cloudless condition. Wuli Xuebao/Acta Physica Sinica, 2015, 64, 079501.	0.5	1
80	Effects of Ocean Wave Spectrum Truncation on Sea Clutter Distribution in Numerical Simulations. , 2021, , .		1
81	A Numerical Study of SST Effects on Ocean Radar Backscattering. , 2020, , .		1
82	Atmospheric correction of directional polarized ocean color sensors. , 2007, , .		0
83	The wind speed estimate of typhoon MEGI by dual-frequency altimeter JASON1. , 2011, , .		0
84	SAR observation and WRF simulation of marine atmospheric boundary layer phenomena. , 2011, , .		0
85	Validation of SAR-derived sea surface wind products. , 2012, , .		0
86	SAR imaging of mode-2 internal waves in the South China Sea. , 2015, , .		0
87	A new eddy detection method with object segmentation strategies for satellite altimetry. , 2016, , .		0
88	SAR observation and WRF model simulation of land breeze in Hainan Island, China. , 2016, , .		0
89	Tropical Cyclone Wind Field Reconstruction from SAR and Analytical Model. Springer Natural Hazards, 2017, , 69-84.	0.3	0
90	A L-band semi-empirical ocean backscattering model. , 2017, , .		0

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91	The Crucial Records Number to Retrieve Offshore Directional Wind Distribution. IOP Conference Series: Earth and Environmental Science, 2017, 57, 012054.	0.3	0
92	Investigation of bistatic radar scattering from sea surfaces with breaking waves. , 2017, , .		0
93	A new approach to use dual-polarized SAR imagery for the detection of bivalve beds on exposed intertidal flats. , 2017, , .		0
94	Synergistic Use of Satellite Active and Passive Microwave Observations to Estimate Typhoon Intensity. , 2019, , .		0
95	Editorial for Special Issue â€œTropical Cyclones Remote Sensing and Data Assimilationâ€• Remote Sensing, 2020, 12, 3067.	4.0	0
96	A Color Restoration Algorithm for Diffractive Optical Images of Membrane Camera. Sensors, 2021, 21, 1053.	3.8	0
97	Numerical Study on the Wind Direction Asymmetries of Fully Polarimetric Ocean Emission at L-Band. , 2021, , .		0
98	Numerical Simulations of Roughness Scale Effects on Bistatic Ocean Scattering. , 2020, , .		0
99	Investigation Of Tropical Cyclone Wind Asymmetry From Cross-Polarization Sar Imagery. , 2020, , .		0
100	Direction Dependence of the Fully Polarimetric Wind-induced Ocean Emissivity at L-band: Modeling and Anisotropy Analyses. , 2021, , .		0
101	Glacier Mass Balance Pattern and Its Variation Mechanism in the West Kunlun Mountains in Tibetan Plateau. Remote Sensing, 2022, 14, 2634.	4.0	0