

Sung Yong Kim

List of Publications by Year in descending order

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39
papers

694
citations

567281

15
h-index

552781

26
g-index

40
all docs

40
docs citations

40
times ranked

729
citing authors

#	ARTICLE	IF	CITATIONS
1	Mapping the U.S. West Coast surface circulation: A multiyear analysis of high-frequency radar observations. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	73
2	Observations of submesoscale eddies using high-frequency radar-derived kinematic and dynamic quantities. <i>Continental Shelf Research</i> , 2010, 30, 1639-1655.	1.8	68
3	Mapping surface currents from HF radar radial velocity measurements using optimal interpolation. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	61
4	Ichthyotoxic <i>Cochlodinium polykrikoides</i> red tides offshore in the South Sea, Korea in 2014: I. Temporal variations in three-dimensional distributions of red-tide organisms and environmental factors. <i>Algae</i> , 2017, 32, 101-130.	2.3	52
5	Objectively mapping HF radar-derived surface current data using measured and idealized data covariance matrices. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	45
6	Anisotropic Response of Surface Currents to the Wind in a Coastal Region. <i>Journal of Physical Oceanography</i> , 2009, 39, 1512-1533.	1.7	39
7	Assessing 4D-VAR for dynamical mapping of coastal high-frequency radar in San Diego. <i>Dynamics of Atmospheres and Oceans</i> , 2009, 48, 175-197.	1.8	35
8	Wind-Driven Sea Level Variability on the California Coast: An Adjoint Sensitivity Analysis. <i>Journal of Physical Oceanography</i> , 2014, 44, 297-318.	1.7	32
9	Assessing Coastal Plumes in a Region of Multiple Discharges: The U.S.-Mexico Border. <i>Environmental Science & Technology</i> , 2009, 43, 7450-7457.	10.0	30
10	Evaluating the use of high-frequency radar coastal currents to correct satellite altimetry. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 3240-3259.	2.6	26
11	Observations of near-inertial surface currents off Oregon: Decorrelation time and length scales. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 3723-3736.	2.6	25
12	Evaluation of directly wind-driven coherent near-inertial surface currents off Oregon using a statistical parameterization and analytical and numerical models. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 6631-6654.	2.6	20
13	Spectral Descriptions of Submesoscale Surface Circulation in a Coastal Region. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 4224-4249.	2.6	20
14	Decomposing observations of high-frequency radar-derived surface currents by their forcing mechanisms: Locally wind-driven surface currents. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	18
15	Diagnostic Characteristics of Submesoscale Coastal Surface Currents. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 1838-1859.	2.6	18
16	Poleward propagating subinertial alongshore surface currents off the U.S. West Coast. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 6791-6806.	2.6	15
17	Regional Variability and Turbulent Characteristics of the Satellite-Sensed Submesoscale Surface Chlorophyll Concentrations. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 4250-4279.	2.6	14
18	Decomposing observations of high-frequency radar-derived surface currents by their forcing mechanisms: Decomposition techniques and spatial structures of decomposed surface currents. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	13

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19	Coastal ocean climatology of temperature and salinity off the Southern California Bight: Seasonal variability, climate index correlation, and linear trend. <i>Progress in Oceanography</i> , 2015, 138, 136-157.	3.2	13
20	Influence of varying upper ocean stratification on coastal near-inertial currents. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 8504-8527.	2.6	12
21	An assessment of the transport of southern California stormwater ocean discharges. <i>Marine Pollution Bulletin</i> , 2015, 90, 135-142.	5.0	11
22	A statistical description on the wind-coherent responses of sea surface heights off the US West Coast. <i>Ocean Dynamics</i> , 2014, 64, 29-46.	2.2	8
23	Interpretation of coastal wind transfer functions with momentum balances derived from idealized numerical model simulations. <i>Ocean Dynamics</i> , 2015, 65, 115-141.	2.2	8
24	National IOOS high frequency radar search and rescue project. , 2011, , .		7
25	Quality Assessment Techniques Applied to Surface Radial Velocity Maps Obtained from High-Frequency Radars. <i>Journal of Atmospheric and Oceanic Technology</i> , 2015, 32, 1915-1927.	1.3	7
26	Resonant ocean current responses driven by coastal winds near the critical latitude. <i>Geophysical Research Letters</i> , 2014, 41, 5581-5587.	4.0	6
27	Climatological descriptions on regional circulation around the Korean Peninsula. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 71, 1604058.	1.7	5
28	DISPERSED OIL TRANSPORT MODELING CALIBRATED BY FIELD-COLLECTED DATA MEASURING FLUORESCIN DYE DISPERSION. <i>International Oil Spill Conference Proceedings</i> , 2008, 2008, 527-536.	0.1	5
29	A Noninterpolated Estimate of Horizontal Spatial Covariance from Nonorthogonally and Irregularly Sampled Scalar Velocities. <i>Journal of Atmospheric and Oceanic Technology</i> , 2017, 34, 2407-2430.	1.3	3
30	Do Nonorthogonally and Irregularly Sampled Scalar Velocities Contain Sufficient Information to Reconstruct an Orthogonal Vector Current Field?. <i>Journal of Atmospheric and Oceanic Technology</i> , 2018, 35, 763-795.	1.3	3
31	A diagnosis of surface currents and sea surface heights in a coastal region. <i>Continental Shelf Research</i> , 2021, 226, 104486.	1.8	1
32	An investigation of the Helmholtz and wave-vortex decompositions on surface currents in a coastal region. <i>Continental Shelf Research</i> , 2022, 238, 104683.	1.8	1
33	Lagrangian applications of the coastal surface currents using high-frequency radar in California. , 2009, , .		0
34	Sustained observations of mesoscale and sub-mesoscale surface circulation off the U.S. West Coast. , 2012, , .		0
35	Cautionary Remarks on the Auto-Correlation Analysis of Self-Similar Time Series. , 2018, , 207-212.		0
36	Geophysical Turbulent Characteristics Inferred From Observations of Submesoscale Surface Currents and Chlorophyll Concentration Maps. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
37	Submesoscale Surface Tidal, Vortical, and Residual Circulations in a Semienclosed Bay. Journal of Geophysical Research: Oceans, 2019, 124, 5105-5137.	2.6	0
38	The 9th International Workshop on Modeling the Ocean (IWMO 2017) in Seoul, Korea, July 3â€“6, 2017. Ocean Dynamics, 2020, 70, 163-164.	2.2	0
39	Development and Application of Eco-friendly Oil Stimulant on Oil Spill Control Training. International Oil Spill Conference Proceedings, 2014, 2014, 300157.	0.1	0