

P Michael Kosro

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

3,791
citations

87723

38
h-index

123241

61
g-index

73
all docs

73
docs citations

73
times ranked

2606
citing authors

#	ARTICLE	IF	CITATIONS
1	The nature of the cold filaments in the California Current system. <i>Journal of Geophysical Research</i> , 1991, 96, 14743-14768.	3.3	288
2	Assimilation of surface velocity data into a primitive equation coastal ocean model. <i>Journal of Geophysical Research</i> , 2002, 107, 5-1.	3.3	181
3	River Influences on Shelf Ecosystems: Introduction and synthesis. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	135
4	Structure of the coastal current field off northern California during the Coastal Ocean Dynamics Experiment. <i>Journal of Geophysical Research</i> , 1987, 92, 1637-1654.	3.3	127
5	CTD and velocity surveys of seaward jets off northern California, July 1981 and 1982. <i>Journal of Geophysical Research</i> , 1986, 91, 7680-7690.	3.3	121
6	Mesoscale surveys over the shelf and slope in the upwelling region near Point Arena, California. <i>Journal of Geophysical Research</i> , 1987, 92, 1655-1681.	3.3	117
7	Horizontal transport and the distribution of nutrients in the Coastal Transition Zone off northern California: Effects on primary production, phytoplankton biomass and species composition. <i>Journal of Geophysical Research</i> , 1991, 96, 14833-14848.	3.3	112
8	Continuity of the poleward undercurrent along the eastern boundary of the mid-latitude north Pacific. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2000, 47, 811-829.	0.6	112
9	Offshore wind forcing in the Gulf of Tehuantepec, Mexico: The asymmetric circulation. <i>Journal of Geophysical Research</i> , 1995, 100, 20649.	3.3	107
10	The structure of the transition zone between coastal waters and the open ocean off northern California, winter and spring 1987. <i>Journal of Geophysical Research</i> , 1991, 96, 14707-14730.	3.3	103
11	Currents and water masses of the Coastal Transition Zone off northern California, June to August 1988. <i>Journal of Geophysical Research</i> , 1991, 96, 14809-14831.	3.3	94
12	A modified law-of-the-wall applied to oceanic bottom boundary layers. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	85
13	The M2 Internal Tide off Oregon: Inferences from Data Assimilation. <i>Journal of Physical Oceanography</i> , 2003, 33, 1733-1757.	0.7	81
14	A Modeling Study of the Three-Dimensional Continental Shelf Circulation off Oregon. Part I: Model-Data Comparisons. <i>Journal of Physical Oceanography</i> , 2002, 32, 1360-1382.	0.7	79
15	Upper-ocean water mass characteristics of the California current, Summer 1993. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1998, 45, 1411-1442.	0.6	76
16	Estimates of sea surface height and near-surface alongshore coastal currents from combinations of altimeters and tide gauges. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	76
17	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
18	Cross-Shelf Sediment Transport by an Anticyclonic Eddy Off Northern California. <i>Science</i> , 1993, 261, 1560-1564.	6.0	72

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19	Water mass subduction and the transport of phytoplankton in a coastal upwelling system. <i>Journal of Geophysical Research</i> , 1991, 96, 14927-14945.	3.3	70
20	On the spatial structure of coastal circulation off Newport, Oregon, during spring and summer 2001 in a region of varying shelf width. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	68
21	Supersquirt: Dynamics of the Gulf of Tehuantepec, Mexico. <i>Oceanography</i> , 1993, 6, 23-30.	0.5	67
22	Secondary circulation associated with a shelfbreak front. <i>Geophysical Research Letters</i> , 1998, 25, 2761-2764.	1.5	67
23	Two coastal upwelling domains in the northern California Current system. <i>Journal of Marine Research</i> , 2005, 63, 901-929.	0.3	67
24	The Central California Coastal Circulation Study. <i>Eos</i> , 1987, 68, 1-13.	0.1	66
25	Surface patterns in temperature, flow, phytoplankton biomass, and species composition in the coastal transition zone off Northern California. <i>Journal of Geophysical Research</i> , 1990, 95, 18081-18094.	3.3	66
26	Physical versus biological spring transition: 2005. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	61
27	Injection of carbon from the shelf to offshore beneath the euphotic zone in the California Current. <i>Journal of Geophysical Research</i> , 2002, 107, 10-1.	3.3	60
28	Evaluation of a coastal ocean circulation model for the Columbia River plume in summer 2004. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	60
29	Poleward flow off central California during the spring and summer of 1981 and 1984. <i>Journal of Geophysical Research</i> , 1988, 93, 10604-10620.	3.3	58
30	A poleward jet and an equatorward undercurrent observed off Oregon and northern California, during the 1997-98 El Niño. <i>Progress in Oceanography</i> , 2002, 54, 343-360.	1.5	57
31	Convectively Driven Mixing in the Bottom Boundary Layer. <i>Journal of Physical Oceanography</i> , 2004, 34, 2189-2202.	0.7	52
32	Enhanced marine CH ₄ emissions to the atmosphere off Oregon caused by coastal upwelling. <i>Global Biogeochemical Cycles</i> , 2002, 16, 2-1-2-11.	1.9	49
33	Diagnosis of the Three-Dimensional Circulation Associated with Mesoscale Motion in the California Current. <i>Journal of Physical Oceanography</i> , 1999, 29, 651-670.	0.7	48
34	Spatial and temporal characteristics of the mesoscale circulation of the California Current from eddy-resolving moored and shipboard measurements. <i>Journal of Geophysical Research</i> , 2000, 105, 1245-1269.	3.3	48
35	Tidal currents on the central Oregon shelf: Models, data, and assimilation. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	43
36	Organization of stratification, turbulence, and veering in bottom Ekman layers. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	42

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37	Spatial and Temporal Variability of the M2 Internal Tide Generation and Propagation on the Oregon Shelf. <i>Journal of Physical Oceanography</i> , 2011, 41, 2037-2062.	0.7	42
38	Linking ocean conditions to year class strength of the invasive European green crab, <i>Carcinus maenas</i> . <i>Biological Invasions</i> , 2010, 12, 1791-1804.	1.2	38
39	Enhanced southward flow over the Oregon shelf in 2002: A conduit for subarctic water. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	36
40	Multiple trophic levels fueled by recirculation in the Columbia River plume. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	36
41	Assimilation of moored velocity data in a model of coastal wind-driven circulation off Oregon: Multivariate capabilities. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	34
42	Variational assimilation of HF radar surface currents in a coastal ocean model off Oregon. <i>Ocean Modelling</i> , 2012, 49-50, 86-104.	1.0	33
43	Dynamics of the Coastal Transition Zone through data assimilation studies. <i>Journal of Geophysical Research</i> , 1991, 96, 14959-14977.	3.3	32
44	The Newport line off Oregon " Studies in the North East Pacific. <i>Progress in Oceanography</i> , 2007, 75, 126-160.	1.5	32
45	Iron, nutrient, and phytoplankton distributions in Oregon coastal waters. <i>Journal of Geophysical Research</i> , 2002, 107, 38-1.	3.3	29
46	Atmospheric forcing of the Oregon coastal ocean during the 2001 upwelling season. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	28
47	Upper ocean thermohaline fields near 2°S, 156°E, during the Tropical Ocean-Global Atmosphere-Coupled Ocean-Atmosphere Response Experiment, November 1992 to February 1993. <i>Journal of Geophysical Research</i> , 1997, 102, 12749-12784.	3.3	26
48	A National Coastal Ocean Surface Current Mapping System for the United States. <i>Marine Technology Society Journal</i> , 2004, 38, 102-108.	0.3	26
49	Observations of near-inertial surface currents off Oregon: Decorrelation time and length scales. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 3723-3736.	1.0	25
50	A springtime source of toxic <i>Pseudo-nitzschia</i> cells on razor clam beaches in the Pacific Northwest. <i>Harmful Algae</i> , 2013, 25, 1-14.	2.2	25
51	Poleward flow in the California Current System. <i>Coastal and Estuarine Studies</i> , 1989, , 142-159.	0.4	20
52	Distant effect of assimilation of moored currents into a model of coastal wind-driven circulation off Oregon. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	20
53	Evaluation of directly wind-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.	1.0	20
54	Biological and physical ocean indicators predict the success of an invasive crab, <i>Carcinus maenas</i> , in the northern California Current. <i>Marine Ecology - Progress Series</i> , 2015, 537, 175-189.	0.9	20

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55	Poleward and equatorward currents in the Pacific Eastern Boundary Current in summer 1995 and 1998 and their relationship to the distribution of euphausiids. Deep-Sea Research Part II: Topical Studies in Oceanography, 2005, 52, 73-88.	0.6	17
56	Coastal ocean variability in the US Pacific Northwest region: seasonal patterns, winter circulation, and the influence of the 2009–2010 El Niño. Ocean Dynamics, 2015, 65, 1643-1663.	0.9	17
57	Poleward propagating subinertial alongshore surface currents off the U.S. West Coast. Journal of Geophysical Research: Oceans, 2013, 118, 6791-6806.	1.0	15
58	Estimation of surface winds from upward looking acoustic Doppler current profilers. Journal of Geophysical Research, 1992, 97, 17925-17930.	3.3	12
59	Intensified Diurnal Tides along the Oregon Coast. Journal of Physical Oceanography, 2014, 44, 1689-1703.	0.7	12
60	Influence of varying upper ocean stratification on coastal near-inertial currents. Journal of Geophysical Research: Oceans, 2015, 120, 8504-8527.	1.0	12
61	Anomalous Near-Surface Low-Salinity Pulses off the Central Oregon Coast. Scientific Reports, 2015, 5, 17145.	1.6	12
62	Alongcoast structure and interannual variability of seasonal midshelf water properties and velocity in the Northern California Current System. Journal of Geophysical Research: Oceans, 2016, 121, 7408-7430.	1.0	12
63	Better Regional Ocean Observing Through Cross-National Cooperation: A Case Study From the Northeast Pacific. Frontiers in Marine Science, 2019, 6, .	1.2	12
64	Why Gliders Appreciate Good Company: Glider Assimilation in the Oregon–Washington Coastal Ocean 4DVAR System With and Without Surface Observations. Journal of Geophysical Research: Oceans, 2019, 124, 750-772.	1.0	10
65	Relationship between ocean ecosystem indicators and year class strength of the invasive European green crab (<i>Carcinus maenas</i>). Progress in Oceanography, 2021, 196, 102618.	1.5	6
66	The Oregon Nearshore Research Inventory project: The importance of science and the scientific community as stakeholders in marine spatial planning. Ocean and Coastal Management, 2016, 130, 290-298.	2.0	5
67	The NANOOS Visualization System: Aggregating, displaying and serving data. , 2009, , .		5
68	A Noninterpolated Estimate of Horizontal Spatial Covariance from Nonorthogonally and Irregularly Sampled Scalar Velocities. Journal of Atmospheric and Oceanic Technology, 2017, 34, 2407-2430.	0.5	3
69	Do Nonorthogonally and Irregularly Sampled Scalar Velocities Contain Sufficient Information to Reconstruct an Orthogonal Vector Current Field?. Journal of Atmospheric and Oceanic Technology, 2018, 35, 763-795.	0.5	3
70	Ensemble 4DVAR (En4DVar) data assimilation in a coastal ocean circulation model. Part II: Implementation offshore Oregon–Washington, USA. Ocean Modelling, 2020, 154, 101681.	1.0	3
71	Sustained observations of mesoscale and sub-mesoscale surface circulation off the U.S. West Coast. , 2012, , .		0