

# Jochen Kaempf

## List of Publications by Year in descending order

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Version: 2024-02-01

56  
papers

1,396  
citations

394421

19  
h-index

377865

34  
g-index

60  
all docs

60  
docs citations

60  
times ranked

1498  
citing authors

#	ARTICLE	IF	CITATIONS
1	The circulation of the Persian Gulf: a numerical study. Ocean Science, 2006, 2, 27-41.	3.4	212
2	Pelagic ecology of a northern boundary current system: effects of upwelling on the production and distribution of sardine ( <i>Sardinops sagax</i> ), anchovy ( <i>Engraulis australis</i> ) and southern bluefin tuna ( <i>Thunnus maccoyii</i> ) in the Great Australian Bight. Fisheries Oceanography, 2006, 15, 191-207.	1.7	108
3	Evidence of a large seasonal coastal upwelling system along the southern shelf of Australia. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	106
4	Upwelling Systems of the World. , 2016, , .		97
5	Phyto-convection:the role of oceanic convection in primary production. Marine Ecology - Progress Series, 1999, 189, 77-92.	1.9	56
6	Transport timescales for identifying seasonal variation in Bass Strait, south-eastern Australia. Estuarine, Coastal and Shelf Science, 2007, 74, 684-696.	2.1	55
7	Three-dimensional flushing times of the Persian Gulf. Geophysical Research Letters, 2004, 31, .	4.0	43
8	Formation and export of water masses produced in Arctic shelf polynyas â€” process studies of oceanic convection. ICES Journal of Marine Science, 1997, 54, 366-382.	2.5	42
9	Shallow, brine-driven free convection in polar oceans: Nonhydrostatic numerical process studies. Journal of Geophysical Research, 1998, 103, 5577-5593.	3.3	41
10	On the magnitude of upwelling fluxes in shelf-break canyons. Continental Shelf Research, 2007, 27, 2211-2223.	1.8	40
11	Radium and radon radioisotopes in regional groundwater, intertidal groundwater, and seawater in the Adelaide Coastal Waters Study area: Implications for the evaluation of submarine groundwater discharge. Marine Chemistry, 2008, 109, 318-336.	2.3	40
12	Phytoplankton blooms on the western shelf of Tasmania: evidence of a highly productive ecosystem. Ocean Science, 2015, 11, 1-11.	3.4	36
13	Ocean Modelling for Beginners. , 2009, , .		36
14	Winter-Spring flushing of Bass Strait, South-Eastern Australia: a numerical modelling study. Estuarine, Coastal and Shelf Science, 2005, 63, 23-31.	2.1	30
15	Cascading-driven upwelling in submarine canyons at high latitudes. Journal of Geophysical Research, 2005, 110, .	3.3	29
16	Transient wind-driven upwelling in a submarine canyon: A process-oriented modeling study. Journal of Geophysical Research, 2006, 111, .	3.3	29
17	On preconditioning of coastal upwelling in the eastern Great Australian Bight. Journal of Geophysical Research, 2010, 115, .	3.3	29
18	Marine Connectivity in a Large Inverse Estuary. Journal of Coastal Research, 2010, 26, 1047-1056.	0.3	23

#	ARTICLE	IF	CITATIONS
19	The Functioning of Coastal Upwelling Systems. , 2016, , 31-65.		22
20	Lee effects of localized upwelling in a shelf-break canyon. Continental Shelf Research, 2012, 42, 78-88.	1.8	21
21	Simulations of sub-mesoscale oceanic convection and ice-ocean interactions in the Greenland Sea. Deep-Sea Research Part II: Topical Studies in Oceanography, 1999, 46, 1427-1455.	1.4	19
22	South Australia's Large Inverse Estuaries: On the Road to Ruin. Estuaries of the World, 2014, , 153-166.	0.1	19
23	Hydrodynamics and Flushing of Coffin Bay, South Australia: A Small Tidal Inverse Estuary of Interconnected Bays. Journal of Coastal Research, 2015, 300, 447-456.	0.3	17
24	Sediment-Driven Downslope Flow in Submarine Canyons and Channels: Three-Dimensional Numerical Experiments. Journal of Physical Oceanography, 2000, 30, 2302-2319.	1.7	16
25	On the Interaction of Time-Variable Flows with a Shelfbreak Canyon. Journal of Physical Oceanography, 2009, 39, 248-260.	1.7	16
26	Interference of wind-driven and pressure gradient-driven flows in shallow homogeneous water bodies. Ocean Dynamics, 2015, 65, 1399-1410.	2.2	16
27	Sediment-induced slope convection: Two-dimensional numerical case studies. Journal of Geophysical Research, 1999, 104, 20509-20522.	3.3	15
28	High-Density Mud Suspensions and Cross-Shelf Transport: On the Mechanism of Gelling Ignition. Journal of Sedimentary Research, 2014, 84, 215-223.	1.6	15
29	On the "hidden" phytoplankton blooms on Australia's southern shelves. Geophysical Research Letters, 2017, 44, 1466-1473.	4.0	15
30	How robust is the environmental impact assessment process in South Australia? Behind the scenes of the Adelaide seawater desalination project. Marine Policy, 2013, 38, 500-506.	3.2	14
31	Ice-ocean interactions during shallow convection under conditions of steady winds: three-dimensional numerical studies. Deep-Sea Research Part II: Topical Studies in Oceanography, 1999, 46, 1335-1355.	1.4	13
32	Impact of multiple submarine channels on the descent of dense water at high latitudes. Journal of Geophysical Research, 2000, 105, 8753-8773.	3.3	13
33	Hindcasts of the fate of desalination brine in large inverse estuaries: Spencer Gulf and Gulf St. Vincent, South Australia. Desalination and Water Treatment, 2009, 2, 335-344.	1.0	12
34	Undercurrent-driven upwelling in the northwestern Arafura Sea. Geophysical Research Letters, 2015, 42, 9362-9368.	4.0	12
35	On the majestic seasonal upwelling system of the Arafura Sea. Journal of Geophysical Research: Oceans, 2016, 121, 1218-1228.	2.6	12
36	SST variability in the eastern intertropical Indian Ocean - On the search for trigger mechanisms of IOD events. Deep-Sea Research Part II: Topical Studies in Oceanography, 2019, 166, 64-74.	1.4	10

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37	Advanced Ocean Modelling. , 2010, , .		9
38	Wind-Driven Overturning, Mixing and Upwelling in Shallow Water: A Nonhydrostatic Modeling Study. Journal of Marine Science and Engineering, 2017, 5, 47.	2.6	8
39	Modern Ocean Current-Controlled Sediment Transport in the Greenland-Iceland-Norwegian (GIN) Seas. , 2001, , 135-154.		7
40	Towards improved numerical schemes of turbulent lateral dispersion. Ocean Modelling, 2016, 106, 1-11.	2.4	6
41	Cyclogenesis in the deep ocean beneath Western Boundary Currents: A process-oriented numerical study. Journal of Geophysical Research, 2005, 110, .	3.3	5
42	Seasonal Wind-Driven Coastal Upwelling Systems. , 2016, , 315-361.		5
43	Wave-Created Mud Suspensions: A Theoretical Study. Journal of Marine Science and Engineering, 2018, 6, 29.	2.6	5
44	On the Dynamics of Canyonâ€“Flow Interactions. Journal of Marine Science and Engineering, 2018, 6, 129.	2.6	5
45	Characterisation of the wave field and associated risk of sediment resuspension in a coastal aquaculture zone. Ocean and Coastal Management, 2012, 69, 16-26.	4.4	4
46	Extreme bed shear stress during coastal downwelling. Ocean Dynamics, 2019, 69, 581-597.	2.2	4
47	Impacts of blending on dilution of negatively buoyant brine discharge in a shallow tidal sea. Marine Pollution Bulletin, 2009, 58, 1032-1038.	5.0	3
48	Dispersion and Connectivity of Land-Based Discharges Near the Mouth of a Coastal Inlet. Journal of Coastal Research, 2013, 291, 100-109.	0.3	2
49	On the upslope sediment transport at continental margins. Journal of Marine Systems, 2021, 219, 103546.	2.1	2
50	Modelling of physical drivers of a large feeding aggregation of killer whales (Orcinus orca) in the western Great Australian Bight, Australia. Deep-Sea Research Part I: Oceanographic Research Papers, 2021, 171, 103526.	1.4	1
51	2.5D Vertical Slice Modelling. , 2010, , 97-124.		1
52	Large-Scale Setting, Natural Variability and Human Influences. , 2016, , 67-95.		0
53	Other Important Upwelling Systems. , 2016, , 363-393.		0
54	3D Level Modelling. , 2010, , 125-171.		0

#	ARTICLE	IF	CITATIONS
55	Basics of Nonhydrostatic Modelling. , 2010, , 21-96.		0
56	1D Models of Ekman Layers. , 2010, , 9-19.		0