List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Carbon and nitrogen cycling within the Bering/Chukchi Seas: Source regions for organic matter effecting AOU demands of the Arctic Ocean. Progress in Oceanography, 1989, 22, 277-359.	1.5	368
2	Lagrangian ocean analysis: Fundamentals and practices. Ocean Modelling, 2018, 121, 49-75.	1.0	313
3	The concept of age in marine modelling. Journal of Marine Systems, 2001, 28, 229-267.	0.9	302
4	Description of the Earth system model of intermediate complexity LOVECLIM version 1.2. Geoscientific Model Development, 2010, 3, 603-633.	1.3	279
5	Toward a general theory of the age in ocean modelling. Ocean Modelling, 1999, 1, 17-27.	1.0	198
6	Residence time in a semi-enclosed domain from the solution of an adjoint problem. Estuarine, Coastal and Shelf Science, 2004, 61, 691-702.	0.9	141
7	Presentation of a family of turbulence closure models for stratified shallow water flows and preliminary application to the Rhine outflow region. Continental Shelf Research, 1996, 16, 101-130.	0.9	105
8	Oceanic inflow from the Coral Sea into the Great Barrier Reef. Estuarine, Coastal and Shelf Science, 2002, 54, 655-668.	0.9	103
9	A multi-scale model of the hydrodynamics of the whole Great Barrier Reef. Estuarine, Coastal and Shelf Science, 2008, 79, 143-151.	0.9	102
10	The water residence time in the Mururoa atoll lagoon: sensitivity analysis of a three-dimensional model. Coral Reefs, 1997, 16, 193-203.	0.9	97
11	A fully implicit wetting–drying method for DG-FEM shallow water models, with an application to the Scheldt Estuary. Computer Methods in Applied Mechanics and Engineering, 2011, 200, 509-524.	3.4	96
12	An efficient Eulerian finite element method for the shallow water equations. Ocean Modelling, 2005, 10, 115-136.	1.0	95
13	Sensitivity of a global coupled ocean-sea ice model to the parameterization of vertical mixing. Journal of Geophysical Research, 1999, 104, 13681-13695.	3.3	93
14	Three-dimensional island wakes in the field, laboratory experiments and numerical models. Continental Shelf Research, 1996, 16, 1437-1452.	0.9	90
15	A high-order conservative Patankar-type discretisation for stiff systems of production–destruction equations. Applied Numerical Mathematics, 2003, 47, 1-30.	1.2	87
16	Tidal impact on the division of river discharge over distributary channels in the Mahakam Delta. Ocean Dynamics, 2011, 61, 2211-2228.	0.9	87
17	Numerical modelling and graph theory tools to study ecological connectivity in the Great Barrier Reef. Ecological Modelling, 2014, 272, 160-174.	1.2	87
18	Residence time, exposure time and connectivity in the Scheldt Estuary. Journal of Marine Systems, 2011, 84, 85-95	0.9	86

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19	Large amplitude, leaky, island-generated, internal waves around Palau, Micronesia. Estuarine, Coastal and Shelf Science, 2004, 60, 705-716.	0.9	74
20	The concept of age in marine modelling. Journal of Marine Systems, 2002, 31, 279-297.	0.9	73
21	Front dynamics in fractional-order epidemic models. Journal of Theoretical Biology, 2011, 279, 9-16.	0.8	72
22	Modelling the general circulation of shelf seas by 3Dk-ε models. Earth-Science Reviews, 1989, 26, 163-189.	4.0	68
23	High-resolution, unstructured meshes for hydrodynamic models of the Great Barrier Reef, Australia. Estuarine, Coastal and Shelf Science, 2006, 68, 36-46.	0.9	67
24	A finite-element, multi-scale model of the Scheldt tributaries, river, estuary and ROFI. Coastal Engineering, 2010, 57, 850-863.	1.7	60
25	On the use of the Ïf-coordinate system in regions of large bathymetric variations. Journal of Marine Systems, 1992, 3, 381-390.	0.9	57
26	Water renewal timescales in the Scheldt Estuary. Journal of Marine Systems, 2012, 94, 74-86.	0.9	57
27	On the practical advantages of the quasi-equilibrium version of the Mellor and Yamada level 2.5 turbulence closure applied to marine modelling. Applied Mathematical Modelling, 1994, 18, 281-287.	2.2	55
28	Haline stratification in the Rhine-Meuse freshwater plume: a three-dimensional model sensitivity analysis. Continental Shelf Research, 1995, 15, 1597-1630.	0.9	54
29	A three-dimensional unstructured mesh finite element shallow-water model, with application to the flows around an island and in a wind-driven, elongated basin. Ocean Modelling, 2008, 22, 26-47.	1.0	52
30	Sensitivity of a global ice-ocean model to the Bering Strait throughflow. Climate Dynamics, 1997, 13, 349-358.	1.7	51
31	Downstream hydraulic geometry of a tidally influenced river delta. Journal of Geophysical Research, 2012, 117, .	3.3	50
32	Toward a generic method for studying water renewal, with application to the epilimnion of Lake Tanganyika. Estuarine, Coastal and Shelf Science, 2007, 74, 628-640.	0.9	49
33	Modelling Escherichia coli concentrations in the tidal Scheldt river and estuary. Water Research, 2011, 45, 2724-2738.	5.3	48
34	An error frequently made in the evaluation of advective transport in two-dimensional Lagrangian models of advection-diffusion in coral reef waters. Marine Ecology - Progress Series, 2002, 235, 299-302.	0.9	48
35	Connectivity between submerged and nearâ€seaâ€surface coral reefs: can submerged reef populations act as refuges?. Diversity and Distributions, 2015, 21, 1254-1266.	1.9	46
36	A finite element method for solving the shallow water equations on the sphere. Ocean Modelling, 2009, 28, 12-23.	1.0	45

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37	Residence time vs influence time. Journal of Marine Systems, 2014, 132, 185-195.	0.9	45
38	Three-dimensional general circulation model of the northern Bering Sea's summer ecohydrodynamics. Continental Shelf Research, 1993, 13, 509-542.	0.9	44
39	On the computation of the barotropic mode of a free-surface world ocean model. Annales Geophysicae, 1995, 13, 675-688.	0.6	44
40	Analysis of Wind-Induced Thermocline Oscillations of Lake Tanganyika. Environmental Fluid Mechanics, 2003, 3, 23-39.	0.7	44
41	Advection schemes for unstructured grid ocean modelling. Ocean Modelling, 2004, 7, 39-58.	1.0	43
42	The boundary layer of the residence time field. Ocean Dynamics, 2006, 56, 139-150.	0.9	43
43	High-order h-adaptive discontinuous Galerkin methods for ocean modelling. Ocean Dynamics, 2007, 57, 109-121.	0.9	42
44	A three-dimensional model of the water circulation around an island in shallow water. Continental Shelf Research, 1992, 12, 891-906.	0.9	41
45	Application of modified Patankar schemes to stiff biogeochemical models for the water column. Ocean Dynamics, 2005, 55, 326-337.	0.9	40
46	Lagrangian modelling of multi-dimensional advection-diffusion with space-varying diffusivities: theory and idealized test cases. Ocean Dynamics, 2007, 57, 189-203.	0.9	40
47	A flux-limiting wetting–drying method for finite-element shallow-water models, with application to the Scheldt Estuary. Advances in Water Resources, 2009, 32, 1726-1739.	1.7	40
48	Review of solutions for 3D hydrodynamic modeling applied to aquaculture in South Pacific atoll lagoons. Marine Pollution Bulletin, 2006, 52, 1138-1155.	2.3	39
49	Tracer Conservation for Three-Dimensional, Finite-Element, Free-Surface, Ocean Modeling on Moving Prismatic Meshes. Monthly Weather Review, 2008, 136, 420-442.	0.5	38
50	A comparison of three finite elements to solve the linear shallow water equations. Ocean Modelling, 2003, 5, 17-35.	1.0	37
51	Delaunay mesh generation for an unstructured-grid ocean general circulation model. Ocean Modelling, 2000, 2, 17-28.	1.0	36
52	The role of topography in small well-mixed bays, with application to the lagoon of Mururoa. Continental Shelf Research, 2002, 22, 1379-1395.	0.9	35
53	The net water circulation through Torres strait. Continental Shelf Research, 2013, 64, 66-74.	0.9	35

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Integrated modelling of faecal contamination in a densely populated river–sea continuum (Scheldt) Tj ETQq0 0 0.3gBT /Overlock 10 Tf

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55	Unstructured, anisotropic mesh generation for the Northwestern European continental shelf, the continental slope and the neighbouring ocean. Continental Shelf Research, 2007, 27, 1344-1356.	0.9	34
56	A depth-averaged two-dimensional sediment transport model for environmental studies in the Scheldt Estuary and tidal river network. Journal of Marine Systems, 2013, 128, 27-39.	0.9	33
57	A note on the age of radioactive tracers. Journal of Marine Systems, 2003, 38, 277-286.	0.9	32
58	The transport and fate of riverine fine sediment exported to a semi-open system. Estuarine, Coastal and Shelf Science, 2015, 167, 336-346.	0.9	32
59	Limnological variability and pelagic fish abundance (Stolothrissa tanganicae and Lates stappersii) in Lake Tanganyika. Hydrobiologia, 2009, 625, 117-134.	1.0	31
60	Stability of a FBTCS Scheme Applied to the Propagation of Shallow-Water Inertia-Gravity Waves on Various Space Grids. Journal of Computational Physics, 1993, 108, 95-104.	1.9	30
61	Stability of algebraic non-equilibrium second-order closure models. Ocean Modelling, 2001, 3, 33-50.	1.0	30
62	A discontinuous finite element baroclinic marine model on unstructured prismatic meshes. Ocean Dynamics, 2010, 60, 1371-1393.	0.9	30
63	Possible effects of global climate change on the ecosystem of Lake Tanganyika. Hydrobiologia, 2011, 671, 147-163.	1.0	30
64	Why the Euler scheme in particle tracking is not enough: the shallow-sea pycnocline test case. Ocean Dynamics, 2012, 62, 501-514.	0.9	30
65	Timescale Methods for Simplifying, Understanding and Modeling Biophysical and Water Quality Processes in Coastal Aquatic Ecosystems: A Review. Water (Switzerland), 2020, 12, 2717.	1.2	30
66	Origin of intraseasonal variability in Lake Tanganyika. Geophysical Research Letters, 2002, 29, 8-1-8-4.	1.5	28
67	Eddies around Guam, an island in the Mariana Islands group. Continental Shelf Research, 2003, 23, 991-1003.	0.9	28
68	The Residence Time of Settling Particles in the Surface Mixed Layer. Environmental Fluid Mechanics, 2006, 6, 25-42.	0.7	27
69	Study of the nutrient and plankton dynamics in Lake Tanganyika using a reduced-gravity model. Ecological Modelling, 2007, 200, 225-233.	1.2	27
70	A baroclinic discontinuous Galerkin finite element model for coastal flows. Ocean Modelling, 2013, 61, 1-20.	1.0	27
71	Upwelling and upsloping in three-dimensional marine models. Applied Mathematical Modelling, 1989, 13, 462-467.	2.2	26
72	Numerical Discretization of Rotated Diffusion Operators in Ocean Models. Monthly Weather Review, 2000, 128, 2711-2733.	0.5	26

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73	Multi-scale modeling: nested-grid and unstructured-mesh approaches. Ocean Dynamics, 2008, 58, 335-336.	0.9	26
74	Preliminary results of a finite-element, multi-scale model of the Mahakam Delta (Indonesia). Ocean Dynamics, 2011, 61, 1107-1120.	0.9	26
75	Submesoscale tidal eddies in the wake of coral islands and reefs: satellite data and numerical modelling. Ocean Dynamics, 2017, 67, 897-913.	0.9	25
76	Global warming decreases connectivity among coral populations. Nature Climate Change, 2022, 12, 83-87.	8.1	25
77	Island-generated internal waves at Scott Reef, Western Australia. Continental Shelf Research, 1998, 18, 1649-1666.	0.9	24
78	Transient behaviour of water ages in the World Ocean. Mathematical and Computer Modelling, 2002, 36, 121-127.	2.0	24
79	Diagnoses of vertical transport in a three-dimensional finite element model of the tidal circulation around an island. Estuarine, Coastal and Shelf Science, 2007, 74, 655-669.	0.9	23
80	Contaminant exchange rates in estuaries – New formulae accounting for advection and dispersion. Progress in Oceanography, 2014, 120, 139-153.	1.5	23
81	The Gulf of Carpentaria heated Torres Strait and the Northern Great Barrier Reef during the 2016 mass coral bleaching event. Estuarine, Coastal and Shelf Science, 2017, 194, 172-181.	0.9	23
82	Some mathematical problems associated with the development and use of marine models. , 1997, , 39-86.		22
83	Another Reason Why Simple Discretizations of Rotated Diffusion Operators Cause Problems in Ocean Models: Comments on "lsoneutral Diffusion in az-Coordinate Ocean Model― Journal of Physical Oceanography, 1998, 28, 1552-1559.	0.7	21
84	Some Properties of Generalized Age-Distribution Equations in Fluid Dynamics. SIAM Journal on Applied Mathematics, 2001, 61, 1526-1544.	0.8	21
85	On the parameters of absorbing layers for shallow water models. Ocean Dynamics, 2010, 60, 65-79.	0.9	20
86	A discontinuous finite element baroclinic marine model on unstructured prismatic meshes. Ocean Dynamics, 2010, 60, 1395-1414.	0.9	19
87	Reprint of Water renewal timescales in the Scheldt Estuary. Journal of Marine Systems, 2013, 128, 3-16.	0.9	19
88	A Lévy-flight diffusion model to predict transgenic pollen dispersal. Journal of the Royal Society Interface, 2017, 14, 20160889.	1.5	19
89	Propagation of tides along a river with a sloping bed. Journal of Fluid Mechanics, 2019, 872, 39-73.	1.4	19
90	The age as a diagnostic of the dynamics of marine ecosystem models. Ocean Dynamics, 2004, 54, 221-231.	0.9	18

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91	Overshootings and spurious oscillations caused by biharmonic mixing. Ocean Modelling, 2007, 17, 183-198.	1.0	18
92	On the time to tracer equilibrium in the global ocean. Ocean Science, 2009, 5, 13-28.	1.3	17
93	Capturing the residence time boundary layer—application to the Scheldt Estuary. Ocean Dynamics, 2010, 60, 535-554.	0.9	17
94	On the biases affecting water ages inferred from isotopic data. Journal of Hydrology, 2011, 410, 217-225.	2.3	17
95	Discontinuous Galerkin modeling of the Columbia River's coupled estuary-plume dynamics. Ocean Modelling, 2018, 124, 111-124.	1.0	17
96	Impact of sea-ice formation on the properties of Antarctic bottom water. Annals of Glaciology, 1997, 25, 276-281.	2.8	16
97	On the behaviour of the residence time at the bottom of the mixed layer. Environmental Fluid Mechanics, 2006, 6, 541-547.	0.7	16
98	A simple model of the ecoâ€hydrodynamics of the epilimnion of Lake Tanganyika. Freshwater Biology, 2007, 52, 2087-2100.	1.2	16
99	An improved methodology for filling missing values in spatiotemporal climate data set. Computational Geosciences, 2010, 14, 55-64.	1.2	16
100	Suspended sediment properties in the Lower Mekong River, from fluvial to estuarine environments. Estuarine, Coastal and Shelf Science, 2020, 233, 106522.	0.9	16
101	A model study of the Rhine discharge front and downwelling circulation. Tellus, Series A: Dynamic Meteorology and Oceanography, 1994, 46, 149-159.	0.8	15
102	A simple model of the tracer flux from the Mururoa lagoon to the Pacific. Applied Mathematics Letters, 1997, 10, 13-17.	1.5	15
103	A coastal ocean model intercomparison study for a three-dimensional idealised test case. Applied Mathematical Modelling, 1998, 22, 165-182.	2.2	15
104	Are there internal Kelvin waves in Lake Tanganyika?. Geophysical Research Letters, 2004, 31, n/a-n/a.	1.5	15
105	An adaptive finite element water column model using the Mellor–Yamada level 2.5 turbulence closure scheme. Ocean Modelling, 2006, 12, 205-223.	1.0	15
106	Dispersion Analysis of Discontinuous Galerkin Schemes Applied to Poincaré, Kelvin and Rossby Waves. Journal of Scientific Computing, 2008, 34, 26-47.	1.1	15
107	Simulations of the flow in the Mahakam river–lake–delta system, Indonesia. Environmental Fluid Mechanics, 2016, 16, 603-633.	0.7	15
108	Unstructured-mesh modeling of the Congo river-to-sea continuum. Ocean Dynamics, 2016, 66, 589-603.	0.9	15

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109	A fully consistent and conservative vertically adaptive coordinate system for SLIMÂ3D v0.4 with an application to the thermocline oscillations of Lake Tanganyika. Geoscientific Model Development, 2018, 11, 1161-1179.	1.3	15
110	Capturing the bottom boundary layer in finite element ocean models. Ocean Modelling, 2007, 17, 153-162.	1.0	14
111	The backward ÃŽto method for the Lagrangian simulation of transport processes with large space variations of the diffusivity. Ocean Science, 2007, 3, 525-535.	1.3	14
112	Partial ages: diagnosing transport processes by means of multiple clocks. Ocean Dynamics, 2016, 66, 367-386.	0.9	14
113	What is wrong with isopycnal diffusion in world ocean models?. Applied Mathematical Modelling, 1998, 22, 367-378.	2.2	13
114	Modelling metal speciation in the Scheldt Estuary: Combining a flexible-resolution transport model with empirical functions. Science of the Total Environment, 2014, 476-477, 346-358.	3.9	13
115	An assessment of transport timescales and return coefficient in adjacent tropical estuaries. Continental Shelf Research, 2016, 124, 49-62.	0.9	13
116	Influence of the turbulence closure scheme on the finite-element simulation of the upwelling in the wake of a shallow-water island. Continental Shelf Research, 2007, 27, 2329-2345.	0.9	12
117	Multi-scale modelling of coastal, shelf and global ocean dynamics. Ocean Dynamics, 2010, 60, 1357-1359.	0.9	12
118	Residence time and exposure time of sinking phytoplankton in the euphotic layer. Journal of Theoretical Biology, 2010, 262, 505-516.	0.8	12
119	A two-compartment model for understanding the simulated three-dimensional circulation in Prince William Sound, Alaska. Continental Shelf Research, 1998, 18, 279-287.	0.9	11
120	An implicit wetting–drying algorithm for the discontinuous Galerkin method: application to the Tonle Sap, Mekong River Basin. Environmental Fluid Mechanics, 2020, 20, 923-951.	0.7	11
121	A model study of the Rhine discharge front and downwelling circulation. Tellus, Series A: Dynamic Meteorology and Oceanography, 1994, 46, 149-159.	0.8	10
122	On the mathematical stability of stratified flow models with local turbulence closure schemes. Ocean Dynamics, 2008, 58, 237-246.	0.9	10
123	Age and the time lag method. Continental Shelf Research, 2008, 28, 1057-1067.	0.9	10
124	Assessing Lagrangian schemes for simulating diffusion on non-flat isopycnal surfaces. Ocean Modelling, 2011, 39, 351-361.	1.0	10
125	Tracing the Ventilation Pathways of the Deep North Pacific Ocean Using Lagrangian Particles and Eulerian Tracers. Journal of Physical Oceanography, 2017, 47, 1261-1280.	0.7	10
126	Turbulence energy models in shallow sea oceanography. Coastal and Estuarine Studies, 1995, , 97-123.	0.4	9

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127	Assessing the parameterisation of the settling flux in a depth-integrated model of the fate of decaying and sinking particles, with application to fecal bacteria in the Scheldt Estuary. Environmental Fluid Mechanics, 2010, 10, 157-175.	0.7	9
128	Simulation of flow in compound open-channel using a discontinuous Galerkin finite-element method with Smagorinsky turbulence closure. Journal of Hydro-Environment Research, 2014, 8, 396-409.	1.0	9
129	Understanding the circulation in the deep, micro-tidal and strongly stratified Congo River estuary. Ocean Modelling, 2021, 167, 101890.	1.0	9
130	Accuracy and stability of the discretised isopycnal-mixing equation. Applied Mathematics Letters, 1999, 12, 81-88.	1.5	8
131	Chapter 15 Merging scales in models of water circulation: perspectives from the great barrier reef. Elsevier Oceanography Series, 2003, , 411-429.	0.1	8
132	The leaky funnel model, a metaphor of the ventilation of the World Ocean as simulated in an OGCM. Tellus, Series A: Dynamic Meteorology and Oceanography, 2008, 60, 761-774.	0.8	8
133	Design of a sampling strategy to optimally calibrate a reactive transport model: Exploring the potential for Escherichia coli in the Scheldt Estuary. Environmental Modelling and Software, 2009, 24, 969-981.	1.9	8
134	Residence and exposure times : when diffusion does not matter. Ocean Dynamics, 2012, 62, 1399-1407.	0.9	8
135	Adaptive time stepping algorithm for Lagrangian transport models: Theory and idealised test cases. Ocean Modelling, 2013, 68, 9-21.	1.0	8
136	Numerical study of tides in Ontario Lacus, a hydrocarbon lake on the surface of the Saturnian moon Titan. Ocean Dynamics, 2016, 66, 461-482.	0.9	8
137	An ecological model for the Scheldt estuary and tidal rivers ecosystem: spatial and temporal variability of plankton. Hydrobiologia, 2016, 775, 51-67.	1.0	8
138	Modelling fine-grained sediment transport in the Mahakam land–sea continuum, Indonesia. Journal of Hydro-Environment Research, 2016, 13, 103-120.	1.0	8
139	Numerical mass conservation in a free-surface sigma coordinate marine model with mode splitting. Journal of Marine Systems, 1993, 4, 365-370.	0.9	7
140	A one-dimensional benchmark for the propagation of Poincaré waves. Ocean Modelling, 2006, 15, 101-123.	1.0	7
141	Tracer and timescale methods for understanding complex geophysical and environmental fluid flows. Environmental Fluid Mechanics, 2010, 10, 1-5.	0.7	7
142	The leaky funnel model revisited. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 64, 19131.	0.8	7
143	Coupling of a discontinuous Galerkin finite element marine model with a finite difference turbulence closure model. Ocean Modelling, 2012, 47, 55-64.	1.0	7
144	A stabilization for threeâ€dimensional discontinuous Galerkin discretizations applied to nonhydrostatic atmospheric simulations. International Journal for Numerical Methods in Fluids, 2016, 81, 558-585.	0.9	7

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145	A numerical study of tides in Titan′s northern seas, Kraken and Ligeia Maria. Icarus, 2018, 310, 105-126.	1.1	7
146	Consistent Boundary Conditions for Age Calculations. Water (Switzerland), 2020, 12, 1274.	1.2	7
147	Improving the parameterisation of horizontal density gradient in one-dimensional water column models for estuarine circulation. Ocean Science, 2008, 4, 239-246.	1.3	7
148	Revisiting Nihoul's model for oil slicks transport and spreading on the sea. Ecological Modelling, 1992, 64, 71-75.	1.2	6
149	Comments on "Water renewal time for classification of atoll lagoons in the Tuamotu Archipelago (French Polynesia)" by Andr�fou�t et al. [Coral Reefs (2001) 20:399?408]. Coral Reefs, 2003, 22, 307-308.	0.9	6
150	Symmetry and asymmetry of water ages in a one-dimensional flow. Journal of Marine Systems, 2004, 48, 61-66.	0.9	6
151	Hydrodynamic and sediment transport modelling in the Pearl River Estuary and adjacent Chinese coastal zone during Typhoon Mangkhut. Continental Shelf Research, 2022, 233, 104645.	0.9	6
152	An analysis of the vertical velocity field computed by a three-dimensional model in the region of the Bering Strait. Tellus, Series A: Dynamic Meteorology and Oceanography, 1994, 46, 134-148.	0.8	5
153	Enforcing the continuity equation in numerical models of geophysical fluid flows. Applied Mathematics Letters, 2001, 14, 867-873.	1.5	5
154	Comparison of free-surface and rigid-lid finite element models of barotropic instabilities. Ocean Dynamics, 2006, 56, 86-103.	0.9	5
155	Numerical Simulation of Water Renewal Timescales in the Mahakam Delta, Indonesia. Water (Switzerland), 2020, 12, 1017.	1.2	5
156	Simulating Lagrangian Subgridâ€Scale Dispersion on Neutral Surfaces in the Ocean. Journal of Advances in Modeling Earth Systems, 2022, 14, .	1.3	5
157	Reply to Mellor's comments on "Stability of algebraic non-equilibrium second-order closure models― (Ocean Modelling 3 (2001) 33–50). Ocean Modelling, 2003, 5, 291-293.	1.0	4
158	Diagnosing ocean tracer transport from Sellafield and Dounreay by equivalent diffusion and age. Advances in Atmospheric Sciences, 2008, 25, 805-814.	1.9	4
159	Simple test cases for validating a finite element unstructured grid fecal bacteria transport model. Applied Mathematical Modelling, 2010, 34, 3055-3070.	2.2	4
160	Free and forced thermocline oscillations in Lake Tanganyika. , 2011, , 146-162.		4
161	Turbulent Fields Associated with the General Circulation in the Northern Bering Sea. Elsevier Oceanography Series, 1988, 46, 77-93.	0.1	3
162	An analysis of the vertical velocity field computed by a three-dimensional model in the region of the Bering Strait. Tellus, Series A: Dynamic Meteorology and Oceanography, 1994, 46, 134-148.	0.8	3

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163	The vertical age profile in sea ice: Theory and numerical results. Ocean Modelling, 2011, 40, 211-226.	1.0	3
164	Age of Water Particles as a Diagnosis of Steady-State Flows in Shallow Rectangular Reservoirs. Water (Switzerland), 2020, 12, 2819.	1.2	3
165	Simulation mathématique des nappes d'hydrocarbures et comparaison avec les observations par télédétection. Hydroecologie Appliquee, 1992, 4, 23-31.	1.3	3
166	Preliminary tests of a hybrid numerical-asymptotic method for solving nonlinear advection-diffusion equations in a domain limited by a self-adjusting boundary. Mathematical and Computer Modelling, 1993, 17, 35-47.	2.0	2
167	The assimilation of altimetric data into the barotropic mode of a rigid lid ocean model. Mathematical and Computer Modelling, 1994, 20, 85-94.	2.0	2
168	On the numerical treatment of a lateral boundary layer in a shallow sea model. Journal of Marine Systems, 1996, 8, 107-117.	0.9	2
169	Tracer methods in geophysical fluid dynamics. Journal of Marine Systems, 2004, 48, 1-2.	0.9	2
170	Top-to-bottom Ekman layer and its implications for shallow rotating flows. Environmental Fluid Mechanics, 2019, 19, 1105-1119.	0.7	2
171	An ill-designed algorithm for solving a multi-dimensional nonlinear diffusion equation in a domain limited by a moving boundary. Mathematical and Computer Modelling, 1994, 19, 75-81.	2.0	1
172	Stereographic projection for threeâ€dimensional global discontinuous <scp>G</scp> alerkin atmospheric modeling. Journal of Advances in Modeling Earth Systems, 2015, 7, 1026-1050.	1.3	1
173	Tracers and Timescales: Tools for Distilling and Simplifying Complex Fluid Mechanical Problems. Water (Switzerland), 2021, 13, 2796.	1.2	1
174	Comments on "the sea surface pressure formulation of rigid lid models. Implications for altimetric data assimilation studies―by N. Pinardi, A. Rosati and R. Pacanowski. Journal of Marine Systems, 1995, 6, 121-123.	0.9	0
175	Erratum to "An adaptive finite element water column model using the Mellor–Yamada level 2.5 turbulence closure scheme―[Ocean Modelling 12 (2006) 205–223]. Ocean Modelling, 2006, 15, 137.	1.0	0
176	Normal modes and resonance in Ontario Lacus: a hydrocarbon lake of Titan. Ocean Dynamics, 2019, 69, 1121-1132.	0.9	0