Eric Deleersnijder

List of Publications by Year
in descending order

176 papers	6,207 citations	71102 41 h-index	91884 69 g-index
186 all docs	186 docs citations	186 times ranked	4702 citing authors

#	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.	3.2	368
2	Lagrangian ocean analysis: Fundamentals and practices. Ocean Modelling, 2018, 121, 49-75.	2.4	313
3	The concept of age in marine modelling. Journal of Marine Systems, 2001, 28, 229-267.	2.1	302
4	Description of the Earth system model of intermediate complexity LOVECLIM version 1.2. Geoscientific Model Development, 2010, 3, 603-633.	3.6	279
5	Toward a general theory of the age in ocean modelling. Ocean Modelling, 1999, 1, 17-27.	2.4	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.	2.1	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.	1.8	105
8	Oceanic inflow from the Coral Sea into the Great Barrier Reef. Estuarine, Coastal and Shelf Science, 2002, 54, 655-668.	2.1	103
9	A multi-scale model of the hydrodynamics of the whole Great Barrier Reef. Estuarine, Coastal and Shelf Science, 2008, 79, 143-151.	2.1	102
10	The water residence time in the Mururoa atoll lagoon: sensitivity analysis of a three-dimensional model. Coral Reefs, 1997, 16, 193-203.	2.2	97
11	A fully implicit wettingâ€“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.	6.6	96
12	An efficient Eulerian finite element method for the shallow water equations. Ocean Modelling, 2005, 10, 115-136.	2.4	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.	1.8	90
15	A high-order conservative Patankar-type discretisation for stiff systems of productionâ€“destruction equations. Applied Numerical Mathematics, 2003, 47, 1-30.	2.1	87
16	Tidal impact on the division of river discharge over distributary channels in the Mahakam Delta. Ocean Dynamics, 2011, 61, 2211-2228.	2.2	87
17	Numerical modelling and graph theory tools to study ecological connectivity in the Great Barrier Reef. Ecological Modelling, 2014, 272, 160-174.	2.5	87
18	Residence time, exposure time and connectivity in the Scheldt Estuary. Journal of Marine Systems, 2011, 84, 85-95.	2.1	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.	2.1	74
20	The concept of age in marine modelling. Journal of Marine Systems, 2002, 31, 279-297.	2.1	73
21	Front dynamics in fractional-order epidemic models. Journal of Theoretical Biology, 2011, 279, 9-16.	1.7	72
22	Modelling the general circulation of shelf seas by 3Dk-Îµ models. Earth-Science Reviews, 1989, 26, 163-189.	9.1	68
23	High-resolution, unstructured meshes for hydrodynamic models of the Great Barrier Reef, Australia. Estuarine, Coastal and Shelf Science, 2006, 68, 36-46.	2.1	67
24	A finite-element, multi-scale model of the Scheldt tributaries, river, estuary and ROFI. Coastal Engineering, 2010, 57, 850-863.	4.0	60
25	On the use of the Ïƒ-coordinate system in regions of large bathymetric variations. Journal of Marine Systems, 1992, 3, 381-390.	2.1	57
26	Water renewal timescales in the Scheldt Estuary. Journal of Marine Systems, 2012, 94, 74-86.	2.1	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.	4.2	55
28	Haline stratification in the Rhine-Meuse freshwater plume: a three-dimensional model sensitivity analysis. Continental Shelf Research, 1995, 15, 1597-1630.	1.8	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.	2.4	52
30	Sensitivity of a global ice-ocean model to the Bering Strait throughflow. Climate Dynamics, 1997, 13, 349-358.	3.8	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.	2.1	49
33	Modelling Escherichia coli concentrations in the tidal Scheldt river and estuary. Water Research, 2011, 45, 2724-2738.	11.3	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.	1.9	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.	4.1	46
36	A finite element method for solving the shallow water equations on the sphere. Ocean Modelling, 2009, 28, 12-23.	2.4	45

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37	Residence time vs influence time. Journal of Marine Systems, 2014, 132, 185-195.	2.1	45
38	Three-dimensional general circulation model of the northern Bering Sea's summer ecohydrodynamics. Continental Shelf Research, 1993, 13, 509-542.	1.8	44
39	On the computation of the barotropic mode of a free-surface world ocean model. Annales Geophysicae, 1995, 13, 675-688.	1.6	44
40	Analysis of Wind-Induced Thermocline Oscillations of Lake Tanganyika. Environmental Fluid Mechanics, 2003, 3, 23-39.	1.6	44
41	Advection schemes for unstructured grid ocean modelling. Ocean Modelling, 2004, 7, 39-58.	2.4	43
42	The boundary layer of the residence time field. Ocean Dynamics, 2006, 56, 139-150.	2.2	43
43	High-order h-adaptive discontinuous Galerkin methods for ocean modelling. Ocean Dynamics, 2007, 57, 109-121.	2.2	42
44	A three-dimensional model of the water circulation around an island in shallow water. Continental Shelf Research, 1992, 12, 891-906.	1.8	41
45	Application of modified Patankar schemes to stiff biogeochemical models for the water column. Ocean Dynamics, 2005, 55, 326-337.	2.2	40
46	Lagrangian modelling of multi-dimensional advection-diffusion with space-varying diffusivities: theory and idealized test cases. Ocean Dynamics, 2007, 57, 189-203.	2.2	40
47	A flux-limiting wettingâ€“drying method for finite-element shallow-water models, with application to the Scheldt Estuary. Advances in Water Resources, 2009, 32, 1726-1739.	3.8	40
48	Review of solutions for 3D hydrodynamic modeling applied to aquaculture in South Pacific atoll lagoons. Marine Pollution Bulletin, 2006, 52, 1138-1155.	5.0	39
49	Tracer Conservation for Three-Dimensional, Finite-Element, Free-Surface, Ocean Modeling on Moving Prismatic Meshes. Monthly Weather Review, 2008, 136, 420-442.	1.4	38
50	A comparison of three finite elements to solve the linear shallow water equations. Ocean Modelling, 2003, 5, 17-35.	2.4	37
51	Delaunay mesh generation for an unstructured-grid ocean general circulation model. Ocean Modelling, 2000, 2, 17-28.	2.4	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.	1.8	35
53	The net water circulation through Torres strait. Continental Shelf Research, 2013, 64, 66-74.	1.8	35
54	Integrated modelling of faecal contamination in a densely populated riverâ€“sea continuum (Scheldt) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	8.0	35

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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.	1.8	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.	2.1	33
57	A note on the age of radioactive tracers. Journal of Marine Systems, 2003, 38, 277-286.	2.1	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.	2.1	32
59	Limnological variability and pelagic fish abundance (Stolothrissa tanganicae and Lates stappersii) in Lake Tanganyika. Hydrobiologia, 2009, 625, 117-134.	2.0	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.	3.8	30
61	Stability of algebraic non-equilibrium second-order closure models. Ocean Modelling, 2001, 3, 33-50.	2.4	30
62	A discontinuous finite element baroclinic marine model on unstructured prismatic meshes. Ocean Dynamics, 2010, 60, 1371-1393.	2.2	30
63	Possible effects of global climate change on the ecosystem of Lake Tanganyika. Hydrobiologia, 2011, 671, 147-163.	2.0	30
64	Why the Euler scheme in particle tracking is not enough: the shallow-sea pycnocline test case. Ocean Dynamics, 2012, 62, 501-514.	2.2	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.	2.7	30
66	Origin of intraseasonal variability in Lake Tanganyika. Geophysical Research Letters, 2002, 29, 8-1-8-4.	4.0	28
67	Eddies around Guam, an island in the Mariana Islands group. Continental Shelf Research, 2003, 23, 991-1003.	1.8	28
68	The Residence Time of Settling Particles in the Surface Mixed Layer. Environmental Fluid Mechanics, 2006, 6, 25-42.	1.6	27
69	Study of the nutrient and plankton dynamics in Lake Tanganyika using a reduced-gravity model. Ecological Modelling, 2007, 200, 225-233.	2.5	27
70	A baroclinic discontinuous Galerkin finite element model for coastal flows. Ocean Modelling, 2013, 61, 1-20.	2.4	27
71	Upwelling and upsloping in three-dimensional marine models. Applied Mathematical Modelling, 1989, 13, 462-467.	4.2	26
72	Numerical Discretization of Rotated Diffusion Operators in Ocean Models. Monthly Weather Review, 2000, 128, 2711-2733.	1.4	26

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73	Multi-scale modeling: nested-grid and unstructured-mesh approaches. Ocean Dynamics, 2008, 58, 335-336.	2.2	26
74	Preliminary results of a finite-element, multi-scale model of the Mahakam Delta (Indonesia). Ocean Dynamics, 2011, 61, 1107-1120.	2.2	26
75	Submesoscale tidal eddies in the wake of coral islands and reefs: satellite data and numerical modelling. Ocean Dynamics, 2017, 67, 897-913.	2.2	25
76	Global warming decreases connectivity among coral populations. Nature Climate Change, 2022, 12, 83-87.	18.8	25
77	Island-generated internal waves at Scott Reef, Western Australia. Continental Shelf Research, 1998, 18, 1649-1666.	1.8	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.	2.1	23
80	Contaminant exchange rates in estuaries â€“ New formulae accounting for advection and dispersion. Progress in Oceanography, 2014, 120, 139-153.	3.2	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.	2.1	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 â€œIsoneutral Diffusion in az-Coordinate Ocean Modelâ€• Journal of Physical Oceanography, 1998, 28, 1552-1559.	1.7	21
84	Some Properties of Generalized Age-Distribution Equations in Fluid Dynamics. SIAM Journal on Applied Mathematics, 2001, 61, 1526-1544.	1.8	21
85	On the parameters of absorbing layers for shallow water models. Ocean Dynamics, 2010, 60, 65-79.	2.2	20
86	A discontinuous finite element baroclinic marine model on unstructured prismatic meshes. Ocean Dynamics, 2010, 60, 1395-1414.	2.2	19
87	Reprint of Water renewal timescales in the Scheldt Estuary. Journal of Marine Systems, 2013, 128, 3-16.	2.1	19
88	A LÃ©vy-flight diffusion model to predict transgenic pollen dispersal. Journal of the Royal Society Interface, 2017, 14, 20160889.	3.4	19
89	Propagation of tides along a river with a sloping bed. Journal of Fluid Mechanics, 2019, 872, 39-73.	3.4	19
90	The age as a diagnostic of the dynamics of marine ecosystem models. Ocean Dynamics, 2004, 54, 221-231.	2.2	18

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91	Overshootings and spurious oscillations caused by biharmonic mixing. Ocean Modelling, 2007, 17, 183-198.	2.4	18
92	On the time to tracer equilibrium in the global ocean. Ocean Science, 2009, 5, 13-28.	3.4	17
93	Capturing the residence time boundary layerâ€"application to the Scheldt Estuary. Ocean Dynamics, 2010, 60, 535-554.	2.2	17
94	On the biases affecting water ages inferred from isotopic data. Journal of Hydrology, 2011, 410, 217-225.	5.4	17
95	Discontinuous Galerkin modeling of the Columbia Riverâ€™s coupled estuary-plume dynamics. Ocean Modelling, 2018, 124, 111-124.	2.4	17
96	Impact of sea-ice formation on the properties of Antarctic bottom water. Annals of Glaciology, 1997, 25, 276-281.	1.4	16
97	On the behaviour of the residence time at the bottom of the mixed layer. Environmental Fluid Mechanics, 2006, 6, 541-547.	1.6	16
98	A simple model of the ecoâ€hydrodynamics of the epilimnion of Lake Tanganyika. Freshwater Biology, 2007, 52, 2087-2100.	2.4	16
99	An improved methodology for filling missing values in spatiotemporal climate data set. Computational Geosciences, 2010, 14, 55-64.	2.4	16
100	Suspended sediment properties in the Lower Mekong River, from fluvial to estuarine environments. Estuarine, Coastal and Shelf Science, 2020, 233, 106522.	2.1	16
101	A model study of the Rhine discharge front and downwelling circulation. Tellus, Series A: Dynamic Meteorology and Oceanography, 1994, 46, 149-159.	1.7	15
102	A simple model of the tracer flux from the Mururoa lagoon to the Pacific. Applied Mathematics Letters, 1997, 10, 13-17.	2.7	15
103	A coastal ocean model intercomparison study for a three-dimensional idealised test case. Applied Mathematical Modelling, 1998, 22, 165-182.	4.2	15
104	Are there internal Kelvin waves in Lake Tanganyika?. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	15
105	An adaptive finite element water column model using the Mellorâ€"Yamada level 2.5 turbulence closure scheme. Ocean Modelling, 2006, 12, 205-223.	2.4	15
106	Dispersion Analysis of Discontinuous Galerkin Schemes Applied to PoincarÃ©, Kelvin and Rossby Waves. Journal of Scientific Computing, 2008, 34, 26-47.	2.3	15
107	Simulations of the flow in the Mahakam riverâ€"lakeâ€"delta system, Indonesia. Environmental Fluid Mechanics, 2016, 16, 603-633.	1.6	15
108	Unstructured-mesh modeling of the Congo river-to-sea continuum. Ocean Dynamics, 2016, 66, 589-603.	2.2	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.	3.6	15
110	Capturing the bottom boundary layer in finite element ocean models. Ocean Modelling, 2007, 17, 153-162.	2.4	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.	3.4	14
112	Partial ages: diagnosing transport processes by means of multiple clocks. Ocean Dynamics, 2016, 66, 367-386.	2.2	14
113	What is wrong with isopycnal diffusion in world ocean models?. Applied Mathematical Modelling, 1998, 22, 367-378.	4.2	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.	8.0	13
115	An assessment of transport timescales and return coefficient in adjacent tropical estuaries. Continental Shelf Research, 2016, 124, 49-62.	1.8	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.	1.8	12
117	Multi-scale modelling of coastal, shelf and global ocean dynamics. Ocean Dynamics, 2010, 60, 1357-1359.	2.2	12
118	Residence time and exposure time of sinking phytoplankton in the euphotic layer. Journal of Theoretical Biology, 2010, 262, 505-516.	1.7	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.	1.8	11
120	An implicit wettingâ€“drying algorithm for the discontinuous Galerkin method: application to the Tonle Sap, Mekong River Basin. Environmental Fluid Mechanics, 2020, 20, 923-951.	1.6	11
121	A model study of the Rhine discharge front and downwelling circulation. Tellus, Series A: Dynamic Meteorology and Oceanography, 1994, 46, 149-159.	1.7	10
122	On the mathematical stability of stratified flow models with local turbulence closure schemes. Ocean Dynamics, 2008, 58, 237-246.	2.2	10
123	Age and the time lag method. Continental Shelf Research, 2008, 28, 1057-1067.	1.8	10
124	Assessing Lagrangian schemes for simulating diffusion on non-flat isopycnal surfaces. Ocean Modelling, 2011, 39, 351-361.	2.4	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.	1.7	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.	1.6	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.	2.2	9
129	Understanding the circulation in the deep, micro-tidal and strongly stratified Congo River estuary. Ocean Modelling, 2021, 167, 101890.	2.4	9
130	Accuracy and stability of the discretised isopycnal-mixing equation. Applied Mathematics Letters, 1999, 12, 81-88.	2.7	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.	1.7	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.	4.5	8
134	Residence and exposure times : when diffusion does not matter. Ocean Dynamics, 2012, 62, 1399-1407.	2.2	8
135	Adaptive time stepping algorithm for Lagrangian transport models: Theory and idealised test cases. Ocean Modelling, 2013, 68, 9-21.	2.4	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.	2.2	8
137	An ecological model for the Scheldt estuary and tidal rivers ecosystem: spatial and temporal variability of plankton. Hydrobiologia, 2016, 775, 51-67.	2.0	8
138	Modelling fine-grained sediment transport in the Mahakam landâ€“sea continuum, Indonesia. Journal of Hydro-Environment Research, 2016, 13, 103-120.	2.2	8
139	Numerical mass conservation in a free-surface sigma coordinate marine model with mode splitting. Journal of Marine Systems, 1993, 4, 365-370.	2.1	7
140	A one-dimensional benchmark for the propagation of PoincarÃ© waves. Ocean Modelling, 2006, 15, 101-123.	2.4	7
141	Tracer and timescale methods for understanding complex geophysical and environmental fluid flows. Environmental Fluid Mechanics, 2010, 10, 1-5.	1.6	7
142	The leaky funnel model revisited. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 64, 19131.	1.7	7
143	Coupling of a discontinuous Galerkin finite element marine model with a finite difference turbulence closure model. Ocean Modelling, 2012, 47, 55-64.	2.4	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.	1.6	7

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145	A numerical study of tides in Titanâ€²s northern seas, Kraken and Ligeia Maria. Icarus, 2018, 310, 105-126.	2.5	7
146	Consistent Boundary Conditions for Age Calculations. Water (Switzerland), 2020, 12, 1274.	2.7	7
147	Improving the parameterisation of horizontal density gradient in one-dimensional water column models for estuarine circulation. Ocean Science, 2008, 4, 239-246.	3.4	7
148	Revisiting Nihoul's model for oil slicks transport and spreading on the sea. Ecological Modelling, 1992, 64, 71-75.	2.5	6
149	Comments on "Water renewal time for classification of atoll lagoons in the Tuamotu Archipelago (French Polynesia)" by Andrï¿½fouï¿½t et al. [Coral Reefs (2001) 20:399?408]. Coral Reefs, 2003, 22, 307-308.	2.2	6
150	Symmetry and asymmetry of water ages in a one-dimensional flow. Journal of Marine Systems, 2004, 48, 61-66.	2.1	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.	1.8	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.	1.7	5
153	Enforcing the continuity equation in numerical models of geophysical fluid flows. Applied Mathematics Letters, 2001, 14, 867-873.	2.7	5
154	Comparison of free-surface and rigid-lid finite element models of barotropic instabilities. Ocean Dynamics, 2006, 56, 86-103.	2.2	5
155	Numerical Simulation of Water Renewal Timescales in the Mahakam Delta, Indonesia. Water (Switzerland), 2020, 12, 1017.	2.7	5
156	Simulating Lagrangian Subgridâ€Scale Dispersion on Neutral Surfaces in the Ocean. Journal of Advances in Modeling Earth Systems, 2022, 14, .	3.8	5
157	Reply to Mellorâ€™s comments on â€œStability of algebraic non-equilibrium second-order closure modelsâ€• (Ocean Modelling 3 (2001) 33â€“50). Ocean Modelling, 2003, 5, 291-293.	2.4	4
158	Diagnosing ocean tracer transport from Sellafield and Dounreay by equivalent diffusion and age. Advances in Atmospheric Sciences, 2008, 25, 805-814.	4.3	4
159	Simple test cases for validating a finite element unstructured grid fecal bacteria transport model. Applied Mathematical Modelling, 2010, 34, 3055-3070.	4.2	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.	1.7	3

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163	The vertical age profile in sea ice: Theory and numerical results. Ocean Modelling, 2011, 40, 211-226.	2.4	3
164	Age of Water Particles as a Diagnosis of Steady-State Flows in Shallow Rectangular Reservoirs. Water (Switzerland), 2020, 12, 2819.	2.7	3
165	Simulation mathÃ©matique des nappes d'hydrocarbures et comparaison avec les observations par tÃ©lÃ©dÃ©tection. 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.	2.1	2
169	Tracer methods in geophysical fluid dynamics. Journal of Marine Systems, 2004, 48, 1-2.	2.1	2
170	Top-to-bottom Ekman layer and its implications for shallow rotating flows. Environmental Fluid Mechanics, 2019, 19, 1105-1119.	1.6	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.	3.8	1
173	Tracers and Timescales: Tools for Distilling and Simplifying Complex Fluid Mechanical Problems. Water (Switzerland), 2021, 13, 2796.	2.7	1
174	Comments on â€œthe sea surface pressure formulation of rigid lid models. Implications for altimetric data assimilation studiesâ€•by N. Pinardi, A. Rosati and R. Pacanowski. Journal of Marine Systems, 1995, 6, 121-123.	2.1	0
175	Erratum to â€œAn adaptive finite element water column model using the Mellorâ€“Yamada level 2.5 turbulence closure schemeâ€•[Ocean Modelling 12 (2006) 205â€“223]. Ocean Modelling, 2006, 15, 137.	2.4	0
176	Normal modes and resonance in Ontario Lacus: a hydrocarbon lake of Titan. Ocean Dynamics, 2019, 69, 1121-1132.	2.2	0