# Eric Deleersnijder

List of Publications by Year
in descending order



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|---|---|---|---|
| 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 | The leaky funnel model revisited. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 64, 19131. | 1.7 | 7 |
| 2 | Simulating Lagrangian Subgridâ€Scale Dispersion on Neutral Surfaces in the Ocean. Journal of Advances in Modeling Earth Systems, 2022, 14, . | 3.8 | 5 |
| 3 | 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 |
| 4 | Global warming decreases connectivity among coral populations. Nature Climate Change, 2022, 12, 83-87. | 18.8 | 25 |
| 5 | Understanding the circulation in the deep, micro-tidal and strongly stratified Congo River estuary. Ocean Modelling, 2021, 167, 101890. | 2.4 | 9 |
| 6 | Tracers and Timescales: Tools for Distilling and Simplifying Complex Fluid Mechanical Problems. Water (Switzerland), 2021, 13, 2796. | 2.7 | 1 |
| 7 | 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 |
| 8 | Suspended sediment properties in the Lower Mekong River, from fluvial to estuarine environments. Estuarine, Coastal and Shelf Science, 2020, 233, 106522. | 2.1 | 16 |
| 9 | 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 |
| 10 | Age of Water Particles as a Diagnosis of Steady-State Flows in Shallow Rectangular Reservoirs. Water (Switzerland), 2020, 12, 2819. | 2.7 | 3 |
| 11 | Consistent Boundary Conditions for Age Calculations. Water (Switzerland), 2020, 12, 1274. | 2.7 | 7 |
| 12 | Numerical Simulation of Water Renewal Timescales in the Mahakam Delta, Indonesia. Water (Switzerland), 2020, 12, 1017. | 2.7 | 5 |
| 13 | Top-to-bottom Ekman layer and its implications for shallow rotating flows. Environmental Fluid Mechanics, 2019, 19, 1105-1119. | 1.6 | 2 |
| 14 | Normal modes and resonance in Ontario Lacus: a hydrocarbon lake of Titan. Ocean Dynamics, 2019, 69, 1121-1132. | 2.2 | 0 |
| 15 | Propagation of tides along a river with a sloping bed. Journal of Fluid Mechanics, 2019, 872, 39-73. | 3.4 | 19 |
| 16 | Discontinuous Galerkin modeling of the Columbia Riverâ€™s coupled estuary-plume dynamics. Ocean Modelling, 2018, 124, 111-124. | 2.4 | 17 |
| 17 | A numerical study of tides in Titanâ€²s northern seas, Kraken and Ligeia Maria. Icarus, 2018, 310, 105-126. | 2.5 | 7 |
| 18 | Lagrangian ocean analysis: Fundamentals and practices. Ocean Modelling, 2018, 121, 49-75. | 2.4 | 313 |

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| 19 | 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 |
| 20 | A LÃ©vy-flight diffusion model to predict transgenic pollen dispersal. Journal of the Royal Society Interface, 2017, 14, 20160889. | 3.4 | 19 |
| 21 | 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 |
| 22 | 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 |
| 23 | 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 |
| 24 | 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 |
| 25 | Simulations of the flow in the Mahakam riverâ€“lakeâ€“delta system, Indonesia. Environmental Fluid Mechanics, 2016, 16, 603-633. | 1.6 | 15 |
| 26 | 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 |
| 27 | Partial ages: diagnosing transport processes by means of multiple clocks. Ocean Dynamics, 2016, 66, 367-386. | 2.2 | 14 |
| 28 | Unstructured-mesh modeling of the Congo river-to-sea continuum. Ocean Dynamics, 2016, 66, 589-603. | 2.2 | 15 |
| 29 | An assessment of transport timescales and return coefficient in adjacent tropical estuaries. Continental Shelf Research, 2016, 124, 49-62. | 1.8 | 13 |
| 30 | 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 |
| 31 | Modelling fine-grained sediment transport in the Mahakam landâ€“sea continuum, Indonesia. Journal of Hydro-Environment Research, 2016, 13, 103-120. | 2.2 | 8 |
| 32 | 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 |
| 33 | 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 |
| 34 | 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 |
| 35 | 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 |
| 36 | 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 |

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| 37 | Residence time vs influence time. Journal of Marine Systems, 2014, 132, 185-195. | 2.1 | 45 |
| 38 | Integrated modelling of faecal contamination in a densely populated riverâ€“sea continuum (Scheldt) Tj ETQq0 0 0 rgBT /Overlock 10 Tf | 8.0 | 35 |
| 39 | Numerical modelling and graph theory tools to study ecological connectivity in the Great Barrier Reef. Ecological Modelling, 2014, 272, 160-174. | 2.5 | 87 |
| 40 | Contaminant exchange rates in estuaries â€“ New formulae accounting for advection and dispersion. Progress in Oceanography, 2014, 120, 139-153. | 3.2 | 23 |
| 41 | Adaptive time stepping algorithm for Lagrangian transport models: Theory and idealised test cases. Ocean Modelling, 2013, 68, 9-21. | 2.4 | 8 |
| 42 | 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 |
| 43 | Reprint of Water renewal timescales in the Scheldt Estuary. Journal of Marine Systems, 2013, 128, 3-16. | 2.1 | 19 |
| 44 | A baroclinic discontinuous Galerkin finite element model for coastal flows. Ocean Modelling, 2013, 61, 1-20. | 2.4 | 27 |
| 45 | The net water circulation through Torres strait. Continental Shelf Research, 2013, 64, 66-74. | 1.8 | 35 |
| 46 | Residence and exposure times : when diffusion does not matter. Ocean Dynamics, 2012, 62, 1399-1407. | 2.2 | 8 |
| 47 | 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 |
| 48 | Downstream hydraulic geometry of a tidally influenced river delta. Journal of Geophysical Research, 2012, 117, . | 3.3 | 50 |
| 49 | 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 |
| 50 | Water renewal timescales in the Scheldt Estuary. Journal of Marine Systems, 2012, 94, 74-86. | 2.1 | 57 |
| 51 | Modelling Escherichia coli concentrations in the tidal Scheldt river and estuary. Water Research, 2011, 45, 2724-2738. | 11.3 | 48 |
| 52 | Assessing Lagrangian schemes for simulating diffusion on non-flat isopycnal surfaces. Ocean Modelling, 2011, 39, 351-361. | 2.4 | 10 |
| 53 | The vertical age profile in sea ice: Theory and numerical results. Ocean Modelling, 2011, 40, 211-226. | 2.4 | 3 |
| 54 | On the biases affecting water ages inferred from isotopic data. Journal of Hydrology, 2011, 410, 217-225. | 5.4 | 17 |

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| 55 | Residence time, exposure time and connectivity in the Scheldt Estuary. Journal of Marine Systems, 2011, 84, 85-95. | 2.1 | 86 |
| 56 | Possible effects of global climate change on the ecosystem of Lake Tanganyika. Hydrobiologia, 2011, 671, 147-163. | 2.0 | 30 |
| 57 | Preliminary results of a finite-element, multi-scale model of the Mahakam Delta (Indonesia). Ocean Dynamics, 2011, 61, 1107-1120. | 2.2 | 26 |
| 58 | Tidal impact on the division of river discharge over distributary channels in the Mahakam Delta. Ocean Dynamics, 2011, 61, 2211-2228. | 2.2 | 87 |
| 59 | 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 |
| 60 | Front dynamics in fractional-order epidemic models. Journal of Theoretical Biology, 2011, 279, 9-16. | 1.7 | 72 |
| 61 | Free and forced thermocline oscillations in Lake Tanganyika. , 2011, , 146-162. |  | 4 |
| 62 | On the parameters of absorbing layers for shallow water models. Ocean Dynamics, 2010, 60, 65-79. | 2.2 | 20 |
| 63 | Capturing the residence time boundary layerâ€"application to the Scheldt Estuary. Ocean Dynamics, 2010, 60, 535-554. | 2.2 | 17 |
| 64 | A discontinuous finite element baroclinic marine model on unstructured prismatic meshes. Ocean Dynamics, 2010, 60, 1395-1414. | 2.2 | 19 |
| 65 | A discontinuous finite element baroclinic marine model on unstructured prismatic meshes. Ocean Dynamics, 2010, 60, 1371-1393. | 2.2 | 30 |
| 66 | Multi-scale modelling of coastal, shelf and global ocean dynamics. Ocean Dynamics, 2010, 60, 1357-1359. | 2.2 | 12 |
| 67 | 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 |
| 68 | Tracer and timescale methods for understanding complex geophysical and environmental fluid flows. Environmental Fluid Mechanics, 2010, 10, 1-5. | 1.6 | 7 |
| 69 | Residence time and exposure time of sinking phytoplankton in the euphotic layer. Journal of Theoretical Biology, 2010, 262, 505-516. | 1.7 | 12 |
| 70 | Simple test cases for validating a finite element unstructured grid fecal bacteria transport model. Applied Mathematical Modelling, 2010, 34, 3055-3070. | 4.2 | 4 |
| 71 | A finite-element, multi-scale model of the Scheldt tributaries, river, estuary and ROFI. Coastal Engineering, 2010, 57, 850-863. | 4.0 | 60 |
| 72 | Description of the Earth system model of intermediate complexity LOVECLIM version 1.2. Geoscientific Model Development, 2010, 3, 603-633. | 3.6 | 279 |

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| 73 | An improved methodology for filling missing values in spatiotemporal climate data set. Computational Geosciences, 2010, 14, 55-64. | 2.4 | 16 |
| 74 | On the time to tracer equilibrium in the global ocean. Ocean Science, 2009, 5, 13-28. | 3.4 | 17 |
| 75 | 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 |
| 76 | Limnological variability and pelagic fish abundance (Stolothrissa tanganicae and Lates stappersii) in Lake Tanganyika. Hydrobiologia, 2009, 625, 117-134. | 2.0 | 31 |
| 77 | 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 |
| 78 | A finite element method for solving the shallow water equations on the sphere. Ocean Modelling, 2009, 28, 12-23. | 2.4 | 45 |
| 79 | Dispersion Analysis of Discontinuous Galerkin Schemes Applied to PoincarÃ©, Kelvin and Rossby Waves. Journal of Scientific Computing, 2008, 34, 26-47. | 2.3 | 15 |
| 80 | Diagnosing ocean tracer transport from Sellafield and Dounreay by equivalent diffusion and age. Advances in Atmospheric Sciences, 2008, 25, 805-814. | 4.3 | 4 |
| 81 | On the mathematical stability of stratified flow models with local turbulence closure schemes. Ocean Dynamics, 2008, 58, 237-246. | 2.2 | 10 |
| 82 | Multi-scale modeling: nested-grid and unstructured-mesh approaches. Ocean Dynamics, 2008, 58, 335-336. | 2.2 | 26 |
| 83 | 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 |
| 84 | 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 |
| 85 | 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 |
| 86 | Age and the time lag method. Continental Shelf Research, 2008, 28, 1057-1067. | 1.8 | 10 |
| 87 | 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 |
| 88 | 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 |
| 89 | Capturing the bottom boundary layer in finite element ocean models. Ocean Modelling, 2007, 17, 153-162. | 2.4 | 14 |
| 90 | Overshootings and spurious oscillations caused by biharmonic mixing. Ocean Modelling, 2007, 17, 183-198. | 2.4 | 18 |

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| 91 | 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 |
| 92 | 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 |
| 93 | 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 |
| 94 | A simple model of the ecoâ€hydrodynamics of the epilimnion of Lake Tanganyika. Freshwater Biology, 2007, 52, 2087-2100. | 2.4 | 16 |
| 95 | Study of the nutrient and plankton dynamics in Lake Tanganyika using a reduced-gravity model. Ecological Modelling, 2007, 200, 225-233. | 2.5 | 27 |
| 96 | 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 |
| 97 | 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 |
| 98 | High-order h-adaptive discontinuous Galerkin methods for ocean modelling. Ocean Dynamics, 2007, 57, 109-121. | 2.2 | 42 |
| 99 | 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 |
| 100 | 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 |
| 101 | A one-dimensional benchmark for the propagation of PoincarÃ© waves. Ocean Modelling, 2006, 15, 101-123. | 2.4 | 7 |
| 102 | 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 |
| 103 | The Residence Time of Settling Particles in the Surface Mixed Layer. Environmental Fluid Mechanics, 2006, 6, 25-42. | 1.6 | 27 |
| 104 | On the behaviour of the residence time at the bottom of the mixed layer. Environmental Fluid Mechanics, 2006, 6, 541-547. | 1.6 | 16 |
| 105 | Comparison of free-surface and rigid-lid finite element models of barotropic instabilities. Ocean Dynamics, 2006, 56, 86-103. | 2.2 | 5 |
| 106 | The boundary layer of the residence time field. Ocean Dynamics, 2006, 56, 139-150. | 2.2 | 43 |
| 107 | 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 |
| 108 | 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 |

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| 109 | Application of modified Patankar schemes to stiff biogeochemical models for the water column. Ocean Dynamics, 2005, 55, 326-337. | 2.2 | 40 |
| 110 | An efficient Eulerian finite element method for the shallow water equations. Ocean Modelling, 2005, 10, 115-136. | 2.4 | 95 |
| 111 | Symmetry and asymmetry of water ages in a one-dimensional flow. Journal of Marine Systems, 2004, 48, 61-66. | 2.1 | 6 |
| 112 | Tracer methods in geophysical fluid dynamics. Journal of Marine Systems, 2004, 48, 1-2. | 2.1 | 2 |
| 113 | Large amplitude, leaky, island-generated, internal waves around Palau, Micronesia. Estuarine, Coastal and Shelf Science, 2004, 60, 705-716. | 2.1 | 74 |
| 114 | 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 |
| 115 | The age as a diagnostic of the dynamics of marine ecosystem models. Ocean Dynamics, 2004, 54, 221-231. | 2.2 | 18 |
| 116 | Are there internal Kelvin waves in Lake Tanganyika?. Geophysical Research Letters, 2004, 31, n/a-n/a. | 4.0 | 15 |
| 117 | Advection schemes for unstructured grid ocean modelling. Ocean Modelling, 2004, 7, 39-58. | 2.4 | 43 |
| 118 | Analysis of Wind-Induced Thermocline Oscillations of Lake Tanganyika. Environmental Fluid Mechanics, 2003, 3, 23-39. | 1.6 | 44 |
| 119 | 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 |
| 120 | A note on the age of radioactive tracers. Journal of Marine Systems, 2003, 38, 277-286. | 2.1 | 32 |
| 121 | A high-order conservative Patankar-type discretisation for stiff systems of productionâ€“destruction equations. Applied Numerical Mathematics, 2003, 47, 1-30. | 2.1 | 87 |
| 122 | Eddies around Guam, an island in the Mariana Islands group. Continental Shelf Research, 2003, 23, 991-1003. | 1.8 | 28 |
| 123 | A comparison of three finite elements to solve the linear shallow water equations. Ocean Modelling, 2003, 5, 17-35. | 2.4 | 37 |
| 124 | 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 |
| 125 | Chapter 15 Merging scales in models of water circulation: perspectives from the great barrier reef. Elsevier Oceanography Series, 2003, , 411-429. | 0.1 | 8 |
| 126 | Origin of intraseasonal variability in Lake Tanganyika. Geophysical Research Letters, 2002, 29, 8-1-8-4. | 4.0 | 28 |

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| 127 | 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 |
| 128 | The concept of age in marine modelling. Journal of Marine Systems, 2002, 31, 279-297. | 2.1 | 73 |
| 129 | Transient behaviour of water ages in the World Ocean. Mathematical and Computer Modelling, 2002, 36, 121-127. | 2.0 | 24 |
| 130 | Oceanic inflow from the Coral Sea into the Great Barrier Reef. Estuarine, Coastal and Shelf Science, 2002, 54, 655-668. | 2.1 | 103 |
| 131 | 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 |
| 132 | Stability of algebraic non-equilibrium second-order closure models. Ocean Modelling, 2001, 3, 33-50. | 2.4 | 30 |
| 133 | Some Properties of Generalized Age-Distribution Equations in Fluid Dynamics. SIAM Journal on Applied Mathematics, 2001, 61, 1526-1544. | 1.8 | 21 |
| 134 | Enforcing the continuity equation in numerical models of geophysical fluid flows. Applied Mathematics Letters, 2001, 14, 867-873. | 2.7 | 5 |
| 135 | The concept of age in marine modelling. Journal of Marine Systems, 2001, 28, 229-267. | 2.1 | 302 |
| 136 | Numerical Discretization of Rotated Diffusion Operators in Ocean Models. Monthly Weather Review, 2000, 128, 2711-2733. | 1.4 | 26 |
| 137 | Delaunay mesh generation for an unstructured-grid ocean general circulation model. Ocean Modelling, 2000, 2, 17-28. | 2.4 | 36 |
| 138 | Accuracy and stability of the discretised isopycnal-mixing equation. Applied Mathematics Letters, 1999, 12, 81-88. | 2.7 | 8 |
| 139 | Toward a general theory of the age in ocean modelling. Ocean Modelling, 1999, 1, 17-27. | 2.4 | 198 |
| 140 | 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 |
| 141 | A coastal ocean model intercomparison study for a three-dimensional idealised test case. Applied Mathematical Modelling, 1998, 22, 165-182. | 4.2 | 15 |
| 142 | What is wrong with isopycnal diffusion in world ocean models?. Applied Mathematical Modelling, 1998, 22, 367-378. | 4.2 | 13 |
| 143 | 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 |
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| 145 | 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 |
| 146 | Impact of sea-ice formation on the properties of Antarctic bottom water. Annals of Glaciology, 1997, 25, 276-281. | 1.4 | 16 |
| 147 | Sensitivity of a global ice-ocean model to the Bering Strait throughflow. Climate Dynamics, 1997, 13, 349-358. | 3.8 | 51 |
| 148 | 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 |
| 149 | A simple model of the tracer flux from the Mururoa lagoon to the Pacific. Applied Mathematics Letters, 1997, 10, 13-17. | 2.7 | 15 |
| 150 | Some mathematical problems associated with the development and use of marine models. , 1997, , 39-86. | | 22 |
| 151 | Three-dimensional island wakes in the field, laboratory experiments and numerical models. Continental Shelf Research, 1996, 16, 1437-1452. | 1.8 | 90 |
| 152 | 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 |
| 153 | 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 |
| 154 | On the computation of the barotropic mode of a free-surface world ocean model. Annales Geophysicae, 1995, 13, 675-688. | 1.6 | 44 |
| 155 | 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 |
| 156 | Turbulence energy models in shallow sea oceanography. Coastal and Estuarine Studies, 1995, , 97-123. | 0.4 | 9 |
| 157 | Haline stratification in the Rhine-Meuse freshwater plume: a three-dimensional model sensitivity analysis. Continental Shelf Research, 1995, 15, 1597-1630. | 1.8 | 54 |
| 158 | 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 |
| 159 | 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 |
| 160 | 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 |
| 161 | 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 |
| 162 | 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 |

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| 163 | 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 |
| 164 | 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 |
| 165 | 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 |
| 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 | Three-dimensional general circulation model of the northern Bering Sea's summer ecohydrodynamics. Continental Shelf Research, 1993, 13, 509-542. | 1.8 | 44 |
| 168 | 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 |
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| 171 | Revisiting Nihoul's model for oil slicks transport and spreading on the sea. Ecological Modelling, 1992, 64, 71-75. | 2.5 | 6 |
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