

# Numerical Methods for Wave Equations in Geophysical

Texts in Applied Mathematics

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Citation Report

#	ARTICLE	IF	CITATIONS
1	An Examination of Alternative Extrapolations to Find the Departure Point Position in a Two-Time-Level Semi-Lagrangian Integration. <i>Monthly Weather Review</i> , 1999, 127, 1985-1993.	0.5	17
2	Spatial Computational Modes in the Centered Finite-Differencing Schemes. <i>Monthly Weather Review</i> , 2000, 128, 3674-3682.	0.5	0
3	A New Look at the Pseudo-Incompressible Solution to Lamb's Problem of Hydrostatic Adjustment. <i>Journals of the Atmospheric Sciences</i> , 2000, 57, 995-998.	0.6	11
4	Role of Nonmodal Growth and Nonlinearity in Cyclogenesis Initial-Value Problems. <i>Journals of the Atmospheric Sciences</i> , 2000, 57, 2951-2967.	0.6	33
5	A Numerical Study of Three-Dimensional Gravity Waves Triggered by Deep Tropical Convection and Their Role in the Dynamics of the QBO. <i>Journals of the Atmospheric Sciences</i> , 2000, 57, 3689-3702.	0.6	180
6	Boundary Conditions for Semi-Lagrangian Schemes: Testing Some Alternatives in One-Dimensional Models. <i>Monthly Weather Review</i> , 2000, 128, 4084-4096.	0.5	19
7	Wave Propagation in Quadratic-Finite-Element Approximations to Hyperbolic Equations. <i>Journal of Computational Physics</i> , 2000, 159, 448-455.	1.9	1
8	Finite Volume Methods for Multi-Symplectic PDES. <i>BIT Numerical Mathematics</i> , 2000, 40, 559-582.	1.0	16
9	Linear dynamics of hydrostatic adjustment to horizontally homogeneous heating. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2000, 52, 380-390.	0.8	12
10	Alongshore currents over variable beach topography. <i>Journal of Geophysical Research</i> , 2000, 105, 16971-16998.	3.3	29
11	Application of analytical methods to computing numerical flux Jacobians. , 2001, , .		0
12	A seasonal climatology of effective diffusivity in the stratosphere. <i>Journal of Geophysical Research</i> , 2001, 106, 7917-7935.	3.3	90
13	Horizontal transport and the dehydration of the stratosphere. <i>Geophysical Research Letters</i> , 2001, 28, 2799-2802.	1.5	357
14	Time Marching Multilevel Techniques for Evolutionary Dissipative Problems. <i>SIAM Journal of Scientific Computing</i> , 2001, 23, 46-65.	1.3	15
15	Internal and interfacial tides: Beam scattering and local generation of solitary waves. <i>Journal of Marine Research</i> , 2001, 59, 227-255.	0.3	143
16	The Role of Ground-Based GPS Meteorological Observations in Numerical Weather Prediction. <i>GPS Solutions</i> , 2001, 4, 16-24.	2.2	66
17	Second-order accuracy of two-time-level semi-Lagrangian schemes. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2001, 127, 1017-1033.	1.0	24
18	A theory for the estimation of surface fluxes in simple katabatic flows. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2001, 127, 2725-2739.	1.0	44

#	ARTICLE	IF	CITATIONS
19	Completely Conservative and Oscillationless Semi-Lagrangian Schemes for Advection Transportation. Journal of Computational Physics, 2001, 170, 498-522.	1.9	106
20	Adjoints of Nonoscillatory Advection Schemes. Journal of Computational Physics, 2001, 171, 616-631.	1.9	31
21	Comparative study of different advective schemes: Application to the MECCA model. Environmental Fluid Mechanics, 2001, 1, 361-381.	0.7	11
22	Diagnostics Of Hydraulic Jump And Gap Flow In Stratified Flows Over Topography. Boundary-Layer Meteorology, 2001, 98, 475-495.	1.2	22
23	Effect of a Shallow Weak Zone on Fault Rupture: Numerical Simulation of Scale-Model Experiments. Bulletin of the Seismological Society of America, 2002, 92, 3022-3041.	1.1	36
24	Quantitative Comparison of Models for Barotropic Response of Homogeneous Basins. Journal of Hydraulic Engineering, 2002, 128, 201-213.	0.7	20
25	Data assimilation. , 2002, , 136-204.		1
26	Application of an internal tide generation model to baroclinic spring-neap cycles. Journal of Geophysical Research, 2002, 107, 7-1.	3.3	56
27	Forcing of secondary waves by breaking of gravity waves in the mesosphere. Journal of Geophysical Research, 2002, 107, ACL 3-1.	3.3	31
28	Simulation of the tropospheric sulfur cycle in a global model with a physically based cloud scheme. Journal of Geophysical Research, 2002, 107, AAC 20-1-AAC 20-21.	3.3	64
29	Numerical modeling of borehole georadar data. Geophysics, 2002, 67, 1249-1257.	1.4	73
30	Modeling chemical constituents of the atmosphere. Computing in Science and Engineering, 2002, 4, 56-63.	1.2	31
36	Atmospheric predictability and ensemble forecasting. , 2002, , 205-260.		3
42	Model intercomparison in the Mediterranean: MEDMEX simulations of the seasonal cycle. Journal of Marine Systems, 2002, 33-34, 215-251.	0.9	31
43	A Particle-Mesh Method for the Shallow Water Equations Near Geostrophic Balance. Journal of Computational Physics, 2002, 180, 407-426.	1.9	4
44	Stability of explicit advection schemes. The balance point location rule. International Journal for Numerical Methods in Fluids, 2002, 38, 471-514.	0.9	12
45	Analysis of various effects in dynamic cyclic fatigue damage. Archive of Applied Mechanics, 2002, 72, 418-438.	1.2	10
46	Localized fracture phenomena in thermo-visco-plastic flow processes under cyclic dynamic loadings. Acta Mechanica, 2002, 155, 233-255.	1.1	9

#	ARTICLE	IF	CITATIONS
47	The development and testing of a new two-time-level semi-Lagrangian scheme (SETTLS) in the ECMWF forecast model. Quarterly Journal of the Royal Meteorological Society, 2002, 128, 1671-1687.	1.0	124
48	A conservative semi-Lagrangian method for oscillation-free computation of advection processes. Computer Physics Communications, 2002, 143, 142-154.	3.0	6
49	Dynamical equivalence and the departure-point equation in semi-Lagrangian numerical models. Quarterly Journal of the Royal Meteorological Society, 2003, 129, 1317-1324.	1.0	6
50	Large-Eddy Simulation of Katabatic Flows. Boundary-Layer Meteorology, 2003, 106, 217-243.	1.2	64
51	Post-Onset Behaviour of the Pure Katabatic Flow. Boundary-Layer Meteorology, 2003, 107, 157-175.	1.2	22
52	On the estimation of impact of vehicular emissions. Ecological Modelling, 2003, 166, 169-184.	1.2	11
53	Climate Modeling. , 0, , 525-561.		0
54	Finite element analysis of time-dependent semi-infinite wave-guides with high-order boundary treatment. International Journal for Numerical Methods in Engineering, 2003, 58, 1955-1983.	1.5	38
55	High-order non-reflecting boundary conditions for dispersive waves. Wave Motion, 2003, 37, 257-271.	1.0	54
56	General approach to conformal mappings used in atmospheric modeling. Applied Numerical Mathematics, 2003, 47, 305-324.	1.2	3
59	Computing magnetospheric force equilibria. Journal of Geophysical Research, 2003, 108, .	3.3	48
60	Well Posedness of the Initial Value Problem for Vertically Discretized Hydrostatic Equations. SIAM Journal on Numerical Analysis, 2003, 41, 195-207.	1.1	14
61	Carbon-Nanotube-Reinforced Structural Materials and Nonequilibrium Thermodynamic Models. , 2003, , .		0
62	High-order Non-reflecting Boundary Conditions for Dispersive Waves in Cartesian, Cylindrical and Spherical Coordinate Systems. International Journal of Computational Fluid Dynamics, 2003, 17, 263-274.	0.5	11
63	Dynamics of Large Polymictic Lake. II: Numerical Simulations. Journal of Hydraulic Engineering, 2003, 129, 92-101.	0.7	58
64	Comparative Analysis of Conformal Mappings Used in Limited-Area Models of Numerical Weather Prediction. Monthly Weather Review, 2003, 131, 1759-1768.	0.5	6
65	An Analysis of the Klemp and Durran Radiation Boundary Condition as Applied to Dissipative Internal Waves. Journal of Physical Oceanography, 2003, 33, 2394-2407.	0.7	3
66	Stratified Flow Over Topography. , 2003, , 119-159.		12

#	ARTICLE	IF	CITATIONS
67	Time splitting for wave equations in random media. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2004, 38, 961-987.	0.8	4
68	Multiple time level adjustment for data assimilation. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2004, 56, 2-15.	0.8	9
70	A Comparison of Dirichlet and Neumann Wavemakers for the Numerical Generation and Propagation of Nonlinear Long-Crested Surface Waves. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2004, 126, 287-296.	0.6	0
71	ON APPROXIMATE SOLUTIONS OF SEMILINEAR EVOLUTION EQUATIONS. <i>Reviews in Mathematical Physics</i> , 2004, 16, 383-420.	0.7	9
72	Developing a Multilayered Integrated Numerical Model of Surface Physics - Growing Plants Interaction (MINoSGI). <i>Global Change Biology</i> , 2004, 10, 963-982.	4.2	39
73	Multiple time level adjustment for data assimilation. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2004, 56, 2-15.	0.8	12
74	Adiabatic Invariance and Applications: From Molecular Dynamics to Numerical Weather Prediction. <i>BIT Numerical Mathematics</i> , 2004, 44, 439-455.	1.0	19
75	Instability in a class of explicit two-time-level semi-Lagrangian schemes. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2004, 130, 365-369.	1.0	14
76	Boundary-layer variations due to orographic-wave breaking in the presence of rotation. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2004, 130, 2991-3014.	1.0	16
77	Conservative semi-Lagrangian advection on adaptive unstructured meshes. <i>Numerical Methods for Partial Differential Equations</i> , 2004, 20, 388-411.	2.0	32
78	Symplectic Time-Stepping for Particle Methods. <i>GAMM Mitteilungen</i> , 2004, 27, 9-24.	2.7	8
79	Hamiltonian Particle-Mesh Method for Two-Layer Shallow-Water Equations Subject to the Rigid-Lid Approximation. <i>SIAM Journal on Applied Dynamical Systems</i> , 2004, 3, 69-83.	0.7	13
80	Gap Flows through Idealized Topography. Part I: Forcing by Large-Scale Winds in the Nonrotating Limit. <i>Journals of the Atmospheric Sciences</i> , 2004, 61, 2846-2862.	0.6	55
81	Numerically Converged Solutions of the Global Primitive Equations for Testing the Dynamical Core of Atmospheric GCMs. <i>Monthly Weather Review</i> , 2004, 132, 2539-2552.	0.5	54
82	An Accurate Semi-Lagrangian Scheme with a Unified Interpolation Function Constructed from Vorticity and Velocity Components. <i>JSME International Journal Series B</i> , 2004, 47, 716-724.	0.3	1
83	Historical Overview of Numerical Weather Prediction. , 2004, , 95-115.		1
84	Improved Semi-Lagrangian Stabilizing Correction Scheme for Shallow Water Equations. <i>Lecture Notes in Computer Science</i> , 2004, , 667-672.	1.0	0
85	The Dynamics of Orographic Wake Formation in Flows with Upstream Blocking. <i>Journals of the Atmospheric Sciences</i> , 2005, 62, 3127-3150.	0.6	54

#	ARTICLE	IF	CITATIONS
86	Semi-Lagrangian Semi-implicit Time Splitting Two Time Level Scheme for Hydrostatic Atmospheric Model. Lecture Notes in Computer Science, 2005, , 195-202.	1.0	0
87	Spurious Convective Organization in Simulated Squall Lines Owing to Moist Absolutely Unstable Layers. Monthly Weather Review, 2005, 133, 1978-1997.	0.5	35
88	Mountain-Wave Momentum Flux in an Evolving Synoptic-Scale Flow. Journals of the Atmospheric Sciences, 2005, 62, 3213-3231.	0.6	36
89	Quantization of the Low-Frequency Variability of the Double-Gyre Circulation. Journal of Physical Oceanography, 2005, 35, 2268-2290.	0.7	19
90	Homoclinic bifurcations in the quasi-geostrophic double-gyre circulation. Journal of Marine Research, 2005, 63, 931-956.	0.3	79
91	A numerical instability in an ADI algorithm for gyrokinetics. Computer Physics Communications, 2005, 172, 119-132.	3.0	6
92	On the Doppler effect in a transient gravity-wave spectrum. Quarterly Journal of the Royal Meteorological Society, 2005, 131, 1215-1232.	1.0	4
93	Thermod7: A general two-dimensional numerical modeling program for heat conduction and advection, with special application to faults. Computers and Geosciences, 2005, 31, 698-703.	2.0	4
94	Semi-analytical method for departure point determination. International Journal for Numerical Methods in Fluids, 2005, 47, 121-137.	0.9	8
95	Towards mesh adaptivity for geophysical turbulence: continuous mapping approach. International Journal for Numerical Methods in Fluids, 2005, 47, 789-801.	0.9	44
96	A non-oscillatory balanced scheme for an idealized tropical climate model. Theoretical and Computational Fluid Dynamics, 2005, 19, 331-354.	0.9	46
97	A new two-way nesting technique for ocean modeling based on the smoothed semi-prognostic method. Ocean Dynamics, 2005, 55, 162-177.	0.9	29
98	An improved two-time-level split-explicit integration scheme for non-hydrostatic compressible models. Meteorology and Atmospheric Physics, 2005, 88, 23-38.	0.9	19
99	Sensitivity of the WRF Model to Advection and Diffusion Schemes for Simulation of Heavy Rainfall along the Baiu Front. Scientific Online Letters on the Atmosphere, 2005, 1, 177-180.	0.6	12
101	Atmospheric structure, composition, and thermodynamics. , 2005, , 12-60.		1
102	The momentum equation in Cartesian and spherical coordinates. , 2005, , 82-137.		0
103	Boundary-layer and surface processes. , 2005, , 228-272.		1
104	Gas-phase species, chemical reactions, and reaction rates. , 2005, , 336-356.		0

#	ARTICLE	IF	CITATIONS
105	Urban, free-tropospheric, and stratospheric chemistry. , 2005, , 357-417.		0
106	Methods of solving chemical ordinary differential equations. , 2005, , 418-445.		0
107	Particle components, size distributions, and size structures. , 2005, , 446-469.		0
108	Aerosol emission and nucleation. , 2005, , 470-493.		1
109	Condensation, evaporation, deposition, and sublimation. , 2005, , 525-552.		0
110	Cloud thermodynamics and dynamics. , 2005, , 598-644.		0
111	Sedimentation, dry deposition, and air-sea exchange. , 2005, , 661-680.		2
112	Model design, application, and testing. , 2005, , 681-708.		1
115	The continuity and thermodynamic energy equations. , 2005, , 61-81.		0
116	Vertical-coordinate conversions. , 2005, , 138-168.		0
117	Numerical solutions to partial differential equations. , 2005, , 169-203.		1
118	Finite-differencing the equations of atmospheric dynamics. , 2005, , 204-227.		0
119	Radiative energy transfer. , 2005, , 273-335.		1
120	Coagulation. , 2005, , 494-524.		1
121	Chemical equilibrium and dissolution processes. , 2005, , 553-597.		0
122	Irreversible aqueous chemistry. , 2005, , 645-660.		0
124	Comparison of the WRF and MM5 Models for Simulation of Heavy Rainfall along the Baiu Front. Scientific Online Letters on the Atmosphere, 2005, 1, 197-200.	0.6	17
125	Formulation of an ocean model for global climate simulations. Ocean Science, 2005, 1, 45-79.	1.3	343

#	ARTICLE	IF	CITATIONS
127	On the role of optimal perturbations in the instability of monochromatic gravity waves. <i>Physics of Fluids</i> , 2005, 17, 094107.	1.6	32
129	R�solution num�rique en volumes finis d'un syst�me d'�quations de Serre �tendu. <i>Revue Europ�enne De G�nie Civil</i> , 2005, 9, 889-902.	0.0	0
130	Large deformation diffeomorphic metric mapping of fiber orientations. , 2005, , .		1
131	Large deformation diffeomorphic metric mapping of vector fields. <i>IEEE Transactions on Medical Imaging</i> , 2005, 24, 1216-1230.	5.4	184
132	Dislocation transport using an explicit Galerkin/least-squares formulation. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2006, 14, 1245-1270.	0.8	60
133	A Boussinesq moist turbulence model. <i>Journal of Turbulence</i> , 2006, 7, N32.	0.5	14
134	Progress Towards Large-Eddy Simulations for Prediction of Realistic Nozzle Systems. , 2006, , .		10
135	Diffeomorphic Matching of Diffusion Tensor Images. , 2006, 2006, 67.		34
136	Performance of a second-order moments advection scheme in an Ocean General Circulation Model. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	59
137	A method to represent seasonal vertical migration of Zooplankton in 3D-Eulerian models. <i>Ocean Modelling</i> , 2006, 12, 188-204.	1.0	11
138	Targeted Shapiro filter in an ocean model. <i>Ocean Modelling</i> , 2006, 13, 148-155.	1.0	6
139	Dynamics of Atmospheric Regression Patterns: Regional Mountain Torque Events. <i>Journals of the Atmospheric Sciences</i> , 2006, 63, 1467-1482.	0.6	7
140	Normal-Mode Analysis of a Baroclinic Wave-Mean Oscillation. <i>Journals of the Atmospheric Sciences</i> , 2006, 63, 2795-2812.	0.6	9
141	Columnar modelling of nucleation burst evolution in the convective boundary layer � first results from a feasibility study Part I: Modelling approach. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 4175-4214.	1.9	18
142	Dynamic Adjustment in a Numerically Simulated Mesoscale Convective System: Impact of the Velocity Field. <i>Journals of the Atmospheric Sciences</i> , 2006, 63, 2246-2268.	0.6	7
143	Numerical analysis of a narrow-angle, one-way, elastic-wave equation and extension to curvilinear coordinates. <i>Geophysics</i> , 2006, 71, T137-T146.	1.4	3
144	Shear and Static Instability of Inertia� Gravity Wave Packets: Short-Term Modal and Nonmodal Growth. <i>Journals of the Atmospheric Sciences</i> , 2006, 63, 397-413.	0.6	18
145	HLI, A Direct Method Suitable for Partial and Fully Implicit Time Integration of Primitive Equation Meteorological Models. <i>Computers and Mathematics With Applications</i> , 2006, 52, 1357-1372.	1.4	0

#	ARTICLE	IF	CITATIONS
146	On a practical implementation of particle methods. <i>Applied Numerical Mathematics</i> , 2006, 56, 1418-1431.	1.2	14
147	Modified time splitting scheme for shallow water equations. <i>Mathematics and Computers in Simulation</i> , 2006, 73, 52-64.	2.4	3
148	Semi-Lagrangian semi-implicit locally one-dimensional scheme for hydrostatic atmospheric model. <i>Mathematics and Computers in Simulation</i> , 2006, 73, 38-51.	2.4	1
149	Computing large-amplitude progressive Rossby waves on a sphere. <i>Journal of Computational Physics</i> , 2006, 217, 845-865.	1.9	7
150	A unified asymptotic theory of the anelastic approximation in geophysical gases and liquids. <i>Mechanics Research Communications</i> , 2006, 33, 628-635.	1.0	8
151	A variational method for orographic filtering in NWP and climate models. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2006, 132, 1795-1813.	1.0	12
152	High Accuracy Schemes for DNS and Acoustics. <i>Journal of Scientific Computing</i> , 2006, 26, 151-193.	1.1	73
153	Linearly implicit time stepping methods for numerical weather prediction. <i>BIT Numerical Mathematics</i> , 2006, 46, 607-616.	1.0	10
154	Nonlinear shallow-water solutions using the weak temperature gradient approximation. <i>Theoretical and Computational Fluid Dynamics</i> , 2006, 20, 469-484.	0.9	2
155	The free surface of a coupled ocean-atmosphere model due to forcing effects. <i>Mathematics and Computers in Simulation</i> , 2006, 73, 114-124.	2.4	1
156	A fourth-order compact finite volume scheme for fully nonlinear and weakly dispersive Boussinesq-type equations. Part I: model development and analysis. <i>International Journal for Numerical Methods in Fluids</i> , 2006, 51, 1217-1253.	0.9	96
157	A comparative study of the performance of high resolution advection schemes in the context of data assimilation. <i>International Journal for Numerical Methods in Fluids</i> , 2006, 51, 719-748.	0.9	12
158	MPDATA and grid adaptivity in geophysical fluid flow models. <i>International Journal for Numerical Methods in Fluids</i> , 2006, 50, 1207-1228.	0.9	10
159	Positive-Definite and Monotonic Limiters for Unrestricted-Time-Step Transport Schemes. <i>Monthly Weather Review</i> , 2006, 134, 2241-2250.	0.5	74
160	A Semi-Implicit Runge-Kutta Time-Difference Scheme for the Two-Dimensional Shallow-Water Equations. <i>Monthly Weather Review</i> , 2006, 134, 2916-2926.	0.5	16
161	Sea-surface temperature effects on 3D bora-like flow. <i>Meteorologische Zeitschrift</i> , 2006, 15, 169-177.	0.5	9
162	Numerical modelling of ocean circulation. <i>Acta Numerica</i> , 2006, 15, 385-470.	6.3	21
163	Some Ocean Model Fundamentals. , 2006, , 19-73.		8

#	ARTICLE	IF	CITATIONS
164	A method of solving the stiffness problem in Biot's poroelastic equations using a staggered high-order finite-difference. Chinese Physics B, 2006, 15, 2819-2827.	1.3	5
165	Dynamics of Sheared Convective Boundary Layer Entrainment. Part I: Methodological Background and Large-Eddy Simulations. Journals of the Atmospheric Sciences, 2006, 63, 1151-1178.	0.6	104
166	Velocity-space resolution, entropy production, and upwind dissipation in Eulerian gyrokinetic simulations. Physics of Plasmas, 2006, 13, 032310.	0.7	39
167	Empirical Master Equations. Part I: Numerical Properties. Journals of the Atmospheric Sciences, 2007, 64, 2981-2995.	0.6	1
168	The Primary Nonlinear Dynamics of Modal and Nonmodal Perturbations of Monochromatic Inertia-Gravity Waves. Journals of the Atmospheric Sciences, 2007, 64, 74-95.	0.6	30
169	Transient Mountain Waves and Their Interaction with Large Scales. Journals of the Atmospheric Sciences, 2007, 64, 2378-2400.	0.6	22
170	Explicit Numerical Diffusion in the WRF Model. Monthly Weather Review, 2007, 135, 3808-3824.	0.5	105
171	Dispersive regularizations and numerical discretizations for the inviscid Burgers equation. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 14745-14758.	0.7	4
172	Modelling atmospheric flows. Acta Numerica, 2007, 16, 67-154.	6.3	45
173	Rotor and Subrotor Dynamics in the Lee of Three-Dimensional Terrain. Journals of the Atmospheric Sciences, 2007, 64, 4202-4221.	0.6	73
174	An Upwind-Biased Conservative Advection Scheme for Spherical Hexagonal-Pentagonal Grids. Monthly Weather Review, 2007, 135, 4038-4044.	0.5	80
175	Roll Circulations in the Convective Region of a Simulated Squall Line. Journals of the Atmospheric Sciences, 2007, 64, 1249-1266.	0.6	28
176	A Stability Analysis of Finite-Volume Advection Schemes Permitting Long Time Steps. Monthly Weather Review, 2007, 135, 2658-2673.	0.5	40
177	Extension of 3DVAR to 4DVAR: Implementation of 4DVAR at the Meteorological Service of Canada. Monthly Weather Review, 2007, 135, 2339-2354.	0.5	162
178	A Consistent Time-Split Numerical Scheme Applied to the Nonhydrostatic Compressible Equations*. Monthly Weather Review, 2007, 135, 20-36.	0.5	15
179	A Method for Imposing Surface Stress and Heat Flux Conditions in Finite-Difference Models with Steep Terrain. Monthly Weather Review, 2007, 135, 906-917.	0.5	11
180	Applications of the Boundary Absorption Using A Perfectly Matched Layer for Elastic Wave Simulation in Poroelastic Media. Chinese Journal of Geophysics, 2007, 50, 513-525.	0.2	5
181	Conservative Split-Explicit Time Integration Methods for the Compressible Nonhydrostatic Equations. Monthly Weather Review, 2007, 135, 2897-2913.	0.5	246

#	ARTICLE	IF	CITATIONS
182	Transport and mixing of chemical air masses in idealized baroclinic life cycles. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	60
183	On the front velocity of gravity currents. <i>Journal of Fluid Mechanics</i> , 2007, 586, 1-39.	1.4	196
184	Self-sustained oscillations in variable-density round jets. <i>Journal of Fluid Mechanics</i> , 2007, 582, 341-376.	1.4	61
185	The Evolution of Dynamical Cores for Global Atmospheric Models. <i>Journal of the Meteorological Society of Japan</i> , 2007, 85B, 241-269.	0.7	162
186	Implicit Large-Eddy Simulation in Meteorology: From Boundary Layers to Climate. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2007, 129, 1533-1539.	0.8	6
187	A fourth-order compact finite volume scheme for fully nonlinear and weakly dispersive Boussinesq-type equations. Part II: boundary conditions and validation. <i>International Journal for Numerical Methods in Fluids</i> , 2007, 53, 1423-1455.	0.9	68
188	Numerical solution of the shallow water equations with a fractional step method. <i>Computer Physics Communications</i> , 2007, 176, 23-32.	3.0	1
189	Parametric Fortran: program generation in scientific computing. <i>Journal of Software: Evolution and Process</i> , 2007, 19, 155-182.	1.1	8
190	Finite element analysis of viscoelastic structures using Rosenbrock-type methods. <i>Computational Mechanics</i> , 2007, 40, 383-398.	2.2	19
191	Data assimilation for a coastal area morphodynamic model: Morecambe Bay. <i>Coastal Engineering</i> , 2007, 54, 91-109.	1.7	30
192	Numerical simulation of tunnel fires using preconditioned finite volume schemes. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2008, 59, 416-433.	0.7	6
193	An atmospheric model of intermediate complexity for data assimilation studies. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2008, 134, 1717-1732.	1.0	2
194	Coupling and decoupling of the acoustic and gravity waves through perturbational analysis of the Euler equations. <i>Journal of Computational Physics</i> , 2008, 227, 1609-1612.	1.9	0
195	On grid generation for numerical models of geophysical fluid dynamics. <i>Journal of Computational and Applied Mathematics</i> , 2008, 218, 317-328.	1.1	1
196	On the absolute instability of semi-implicit schemes for hydrostatic models. <i>Journal of Computational and Applied Mathematics</i> , 2008, 218, 404-420.	1.1	0
197	Externalizing the lateral boundary conditions from the dynamic core in semi-implicit semi-Lagrangian models. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2008, 60, 632-648.	0.8	8
198	Equivalent finite volume and Eulerian spectral transform horizontal resolutions established from aqua-planet simulations. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 60, 839.	0.8	33
199	Formulating the equations of ocean models. <i>Geophysical Monograph Series</i> , 2008, , 281-317.	0.1	16

#	ARTICLE	IF	CITATIONS
200	Third-Order Finite-Difference Schemes on Icosahedral-Type Grids on the Sphere. <i>Monthly Weather Review</i> , 2008, 136, 2683-2698.	0.5	15
201	Kuril Islands tsunami of November 2006: 2. Impact at Crescent City by local enhancement. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	52
202	Stratification Effects in a Bottom Ekman Layer. <i>Journal of Physical Oceanography</i> , 2008, 38, 2535-2555.	0.7	67
203	Small-Scale Moist Turbulence in Numerically Generated Convective Clouds. <i>Journals of the Atmospheric Sciences</i> , 2008, 65, 1967-1978.	0.6	7
204	Atlas based segmentation by diffeomorphic deformation. , 2008, , .		0
205	Dislocation-Based Plasticity for Impact Loading in Solids. <i>AIAA Journal</i> , 2008, 46, 290-303.	1.5	0
206	Estimating Topographic Blocking Using a Froude Number When the Static Stability Is Nonuniform. <i>Journals of the Atmospheric Sciences</i> , 2008, 65, 1035-1048.	0.6	80
207	Implications of Regime Transitions for Mountain-Wave-Breaking Predictability. <i>Monthly Weather Review</i> , 2008, 136, 5211-5223.	0.5	18
208	An Analysis of Klemp's "Wilhelmson Schemes as Applied to Large-Scale Wave Modes. <i>Monthly Weather Review</i> , 2008, 136, 4730-4745.	0.5	2
209	Predictability in Wet and Dry Convective Turbulence. <i>Journals of the Atmospheric Sciences</i> , 2008, 65, 220-234.	0.6	4
210	Modeling the Interaction between Cumulus Convection and Linear Gravity Waves Using a Limited-Domain Cloud System's "Resolving Model. <i>Journals of the Atmospheric Sciences</i> , 2008, 65, 576-591.	0.6	101
211	Investigation of shallow mixing layers by B GK finite volume model. <i>International Journal of Computational Fluid Dynamics</i> , 2008, 22, 523-537.	0.5	4
212	A physically motivated approach for filtering acoustic waves from the equations governing compressible stratified flow. <i>Journal of Fluid Mechanics</i> , 2008, 601, 365-379.	1.4	53
213	Modeling zooplankton development using the monotonic upstream scheme for conservation laws. <i>Limnology and Oceanography: Methods</i> , 2008, 6, 364-373.	1.0	10
214	Generation of weakly nonlinear nonhydrostatic internal tides over large topography: a multi-modal approach. <i>Nonlinear Processes in Geophysics</i> , 2008, 15, 233-244.	0.6	18
215	Linearized model Fokker-Planck collision operators for gyrokinetic simulations. II. Numerical implementation and tests. <i>Physics of Plasmas</i> , 2009, 16, .	0.7	81
216	Aggregation of chemotactic organisms in a differential flow. <i>Physical Review E</i> , 2009, 80, 061902.	0.8	2
217	Equation-Free/Galerkin-Free Reduced-Order Modeling of the Shallow Water Equations Based on Proper Orthogonal Decomposition. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2009, 131, .	0.8	22

#	ARTICLE	IF	CITATIONS
218	Optimization of Absorbing Boundary Methods for Acoustic Wave Modelling. , 2009, , .		0
219	Tails for the Einstein–Yang–Mills system. <i>Classical and Quantum Gravity</i> , 2009, 26, 035004.	1.5	7
220	The Diabatic Contour-Advective Semi-Lagrangian Algorithms for the Spherical Shallow Water Equations. <i>Monthly Weather Review</i> , 2009, 137, 2979-2994.	0.5	10
221	Diffusion Experiments with a Global Discontinuous Galerkin Shallow-Water Model. <i>Monthly Weather Review</i> , 2009, 137, 3339-3350.	0.5	27
222	High-Order Time-Integration Schemes with Explicit Time-Splitting Methods. <i>Monthly Weather Review</i> , 2009, 137, 4047-4060.	0.5	4
223	A Proposed Modification to the Robert–Asselin Time Filter*. <i>Monthly Weather Review</i> , 2009, 137, 2538-2546.	0.5	101
224	The Mesoscale Dynamics of Thin Tropical Tropopause Cirrus. <i>Journals of the Atmospheric Sciences</i> , 2009, 66, 2859-2873.	0.6	42
225	The Moisture Mode in the Quasi-Equilibrium Tropical Circulation Model. Part II: Nonlinear Behavior on an Equatorial $\mathbb{R}^2$ Plane. <i>Journals of the Atmospheric Sciences</i> , 2009, 66, 1525-1542.	0.6	34
226	Observations and Numerical Simulations of Subrotor Vortices during T-REX. <i>Journals of the Atmospheric Sciences</i> , 2009, 66, 1229-1249.	0.6	45
227	A Two-Step Adams–Bashforth–Moulton Split-Explicit Integrator for Compressible Atmospheric Models. <i>Monthly Weather Review</i> , 2009, 137, 3588-3595.	0.5	14
228	Formation of Jets and Equatorial Superrotation on Jupiter. <i>Journals of the Atmospheric Sciences</i> , 2009, 66, 579-601.	0.6	132
229	An Ocean Circulation Model Based on Operator-Splitting, Hamiltonian Brackets, and the Inclusion of Sound Waves. <i>Journal of Physical Oceanography</i> , 2009, 39, 1615-1633.	0.7	3
230	Multirate infinitesimal step methods for atmospheric flow simulation. <i>BIT Numerical Mathematics</i> , 2009, 49, 449-473.	1.0	45
231	Two-way interactions between equatorially-trapped waves and the barotropic flow. <i>Chinese Annals of Mathematics Series B</i> , 2009, 30, 539-568.	0.2	19
232	A framework for testing global non-hydrostatic models. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2009, 135, 469-484.	1.0	56
233	The Rossby wave extra invariant in the physical space. <i>Physica D: Nonlinear Phenomena</i> , 2009, 238, 384-394.	1.3	7
234	A computationally efficient scheme for the non-linear diffusion equation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009, 373, 1573-1577.	0.9	0
235	Comparison of different spatial grids for numerical schemes of geophysical fluid dynamics. <i>Journal of Computational and Applied Mathematics</i> , 2009, 227, 161-170.	1.1	3

#	ARTICLE	IF	CITATIONS
236	Semi-Lagrangian semi-implicit time-splitting scheme for a regional model of the atmosphere. <i>Journal of Computational and Applied Mathematics</i> , 2009, 227, 115-125.	1.1	5
237	Coexistence of the Meissner and vortex states on a nanoscale superconducting spherical shell. <i>Physical Review B</i> , 2009, 79, .	1.1	17
238	Neutral wind control of the Jovian magnetosphere-ionosphere current system. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	34
239	The Overamplification of Gravity Waves in Numerical Solutions to Flow over Topography. <i>Monthly Weather Review</i> , 2009, 137, 1533-1549.	0.5	27
240	Lagrangian Modeling of Weakly Nonlinear Nonhydrostatic Shallow Water Waves in Open Channels. <i>Journal of Hydraulic Engineering</i> , 2009, 135, 926-934.	0.7	5
241	Quantifying connectivity in the coastal ocean with application to the Southern California Bight. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	180
242	Numerical simulations of submesoscale balanced vertical velocity forcing unsteady nutrient-phytoplankton-zooplankton distributions. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	6
243	Lagrangian Modeling of the Dynamics of River and Floodplain Flow. <i>Journal of Hydraulic Engineering</i> , 2009, 135, 771-782.	0.7	4
244	Lagrangian modeling of advection-diffusion transport in open channel flow. <i>Water Resources Research</i> , 2009, 45, .	1.7	21
245	A shallow water model conserving energy and potential enstrophy in the presence of boundaries. <i>Journal of Marine Research</i> , 2009, 67, 779-814.	0.3	8
246	Mixing and stratification in lakes of varying horizontal length scales: Scaling arguments and energy partitioning. <i>Limnology and Oceanography</i> , 2009, 54, 2003-2017.	1.6	26
247	Flow paths and spatial heterogeneity of stream inflows in a small multibasin lake. <i>Limnology and Oceanography</i> , 2009, 54, 2041-2057.	1.6	24
248	Retrieval of convective boundary layer wind field statistics from radar profiler measurements in conjunction with large eddy simulation. <i>Meteorologische Zeitschrift</i> , 2009, 18, 175-187.	0.5	9
249	Identification of Suitable Grid Size for Accurate Computation of Run-up Height. <i>The International Journal of Ocean and Climate Systems</i> , 2010, 1, 223-237.	0.8	0
250	NAM-SCA: A Nonhydrostatic Anelastic Model with Segmentally Constant Approximations. <i>Monthly Weather Review</i> , 2010, 138, 1957-1974.	0.5	33
251	A class of deformational flow test cases for linear transport problems on the sphere. <i>Journal of Computational Physics</i> , 2010, 229, 8868-8887.	1.9	101
252	On ellipticity of balance equations for atmospheric dynamics. <i>Journal of Computational and Applied Mathematics</i> , 2010, 234, 1017-1026.	1.1	2
253	Can mesoscale models reproduce meandering motions?. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2010, 136, 553-565.	1.0	27

#	ARTICLE	IF	CITATIONS
254	Forced gravity wave response near the jet exit region in a linear model. Quarterly Journal of the Royal Meteorological Society, 2010, 136, 1773-1787.	1.0	15
255	Iterative Operator-Splitting with Time Overlapping Algorithms: Theory and Application to Constant and Time-Dependent Wave Equations.. , 2010, , .		1
257	GPU acceleration of the dynamics routine in the HIRLAM weather forecast model. , 2010, , .		6
258	Phase Space Volume Conservation under Space and Time Discretization Schemes for the Shallow-Water Equations. Monthly Weather Review, 2010, 138, 4229-4236.	0.5	11
259	Instability in Leapfrog and Forwardâ€“Backward Schemes. Monthly Weather Review, 2010, 138, 1497-1501.	0.5	10
260	Structure of the Atmospheric Boundary Layer in the Vicinity of a Developing Upslope Flow System: A Numerical Model Study. Journals of the Atmospheric Sciences, 2010, 67, 1171-1185.	0.6	50
261	Numerical Simulations of Radiative Cooling beneath the Anvils of Supercell Thunderstorms. Monthly Weather Review, 2010, 138, 3024-3047.	0.5	25
262	An Idealized Comparison of One-Way and Two-Way Grid Nesting. Monthly Weather Review, 2010, 138, 2174-2187.	0.5	78
263	Alternative Formulations for Incorporating Lateral Boundary Data into Limited-Area Models. Monthly Weather Review, 2010, 138, 2867-2882.	0.5	17
264	Nutrient exposure of chemotactic organisms in small-scale turbulent flows. New Journal of Physics, 2010, 12, 103043.	1.2	7
265	A coupled bubble plumeâ€“reservoir model for hypolimnetic oxygenation. Water Resources Research, 2010, 46, .	1.7	18
266	Estimating surface velocities from satellite data and numerical models: Implementation and testing of a new simple method. Ocean Modelling, 2010, 33, 190-203.	1.0	14
267	Modeling Landfast Sea Ice by Adding Tensile Strength. Journal of Physical Oceanography, 2010, 40, 185-198.	0.7	38
268	Simplified Modelling of a Thermal Bath, with Application to a Fluid Vortex System. Multiscale Modeling and Simulation, 2010, 8, 1882-1901.	0.6	3
269	An Unstructured CFD Approach for Numerical Weather Prediction. , 2010, , .		4
270	3D Shear wave imaging: A simulation and experimental study. , 2010, , .		0
271	Stratified turbulence at the buoyancy scale. Physics of Fluids, 2011, 23, .	1.6	73
272	A behavior-oriented dynamic model for sandbar migration and 2DH evolution. Journal of Geophysical Research, 2011, 116, .	3.3	53

#	ARTICLE	IF	CITATIONS
273	3-D FDTD simulation of shear waves for evaluation of complex modulus imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 389-398.	1.7	28
275	Effect of the Tidal Currents at the Amphidromes on the Characteristics of an N-Wave-Type Tsunami. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2011, 225, 43-59.	0.3	1
276	Simulation of two-dimensional high reynolds number wake flows with the use of filtered lagrangian navier-stokes equations. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2011, 33, 86-98.	0.8	0
277	Perfect Matched Layer Optimization for Acoustic Wave Modelling. , 2011, , .		1
278	Conservation Laws on Surfaces: Meteorological Systemsâ€™ Shallow-Water. , 2011, , .		0
279	RELAXATION TIME AND DISSIPATION INTERACTION IN HOT PLANET ATMOSPHERIC FLOW SIMULATIONS. Astrophysical Journal, 2011, 729, 117.	1.6	41
280	Computing Optimized Factors for Absorbing Boundary Techniques. , 2011, , .		0
281	Reflectionless propagation of acoustic waves through the Earthâ€™s atmosphere. JETP Letters, 2011, 93, 564-567.	0.4	19
282	Diagnostic budget study of the internal variability in ensemble simulations of the Canadian RCM. Climate Dynamics, 2011, 36, 2313-2337.	1.7	19
283	Method for efficient prevention of gravity wave decoupling on rectangular semi-staggered grids. Journal of Computational Physics, 2011, 230, 1865-1875.	1.9	0
284	Wave force on double cylindrical piles: a comparison between exact and finite difference solutions. Journal of Marine Science and Application, 2011, 10, 33-40.	0.7	1
285	Laplace transform integration of the shallowâ€™water equations. Part I: Eulerian formulation and Kelvin waves. Quarterly Journal of the Royal Meteorological Society, 2011, 137, 792-799.	1.0	12
286	Laplace transform integration of the shallowâ€™water equations. Part II: Semiâ€™Lagrangian formulation and orographic resonance. Quarterly Journal of the Royal Meteorological Society, 2011, 137, 800-809.	1.0	6
287	Vertical Discretizations: Some Basic Ideas. Lecture Notes in Computational Science and Engineering, 2011, , 59-74.	0.1	4
288	Fundamental Equations Governing Cloud Processes. International Geophysics, 2011, , 15-52.	0.6	2
289	Revisiting Vacillations in Shallow-Water Models of the Stratosphere Using Potential-Vorticity-Based Numerical Algorithms. Journals of the Atmospheric Sciences, 2011, 68, 1007-1022.	0.6	6
290	Semi-Lagrangian methods in air pollution models. Geoscientific Model Development, 2011, 4, 511-541.	1.3	8
291	The RAW Filter: An Improvement to the Robertâ€™Asselin Filter in Semi-Implicit Integrations. Monthly Weather Review, 2011, 139, 1996-2007.	0.5	68

#	ARTICLE	IF	CITATIONS
292	Controlling Overestimation of Error Covariance in Ensemble Kalman Filters with Sparse Observations: A Variance-Limiting Kalman Filter. <i>Monthly Weather Review</i> , 2011, 139, 2650-2667.	0.5	11
293	Diagnosing Lateral Mixing in the Upper Ocean with Virtual Tracers: Spatial and Temporal Resolution Dependence. <i>Journal of Physical Oceanography</i> , 2011, 41, 1512-1534.	0.7	49
294	A Stability Analysis of Divergence Damping on a Latitude-Longitude Grid. <i>Monthly Weather Review</i> , 2011, 139, 2976-2993.	0.5	24
295	Operator-Split Runge-Kutta-Rosenbrock Methods for Nonhydrostatic Atmospheric Models. <i>Monthly Weather Review</i> , 2012, 140, 1257-1284.	0.5	57
296	Mesoscale Impacts of Explicit Numerical Diffusion in a Convection-Permitting Model. <i>Monthly Weather Review</i> , 2012, 140, 226-244.	0.5	18
297	Gravity Currents from Instantaneous Sources Down a Slope. <i>Journal of Hydraulic Engineering</i> , 2012, 138, 237-246.	0.7	25
298	Secondary Instabilities in Breaking Inertia-Gravity Waves. <i>Journals of the Atmospheric Sciences</i> , 2012, 69, 303-322.	0.6	12
299	Ice-shelf basal channels in a coupled ice/ocean model. <i>Journal of Glaciology</i> , 2012, 58, 1227-1244.	1.1	76
300	Reflectionless acoustic gravity waves in the Earth's atmosphere. <i>Geomagnetism and Aeronomy</i> , 2012, 52, 814-819.	0.2	12
301	Ash3d: A finite-volume, conservative numerical model for ash transport and tephra deposition. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	72
302	Modeling and numerical approximation of a 2.5D set of equations for mesoscale atmospheric processes. <i>Journal of Computational Physics</i> , 2012, 231, 7274-7298.	1.9	2
303	Single SCA-plume dynamics. <i>Dynamics of Atmospheres and Oceans</i> , 2012, 58, 62-94.	0.7	13
304	Multiple equilibria and oscillatory modes in a mid-latitude ocean-forced atmospheric model. <i>Nonlinear Processes in Geophysics</i> , 2012, 19, 479-499.	0.6	7
305	Dispersion analysis of the spectral element method. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2012, 138, 1934-1947.	1.0	29
306	High-order compact scheme for Boussinesq equations: implementation and numerical boundary condition issue. <i>International Journal for Numerical Methods in Fluids</i> , 2012, 69, 590-605.	0.9	4
307	An upgraded version of the Eta model. <i>Meteorology and Atmospheric Physics</i> , 2012, 116, 63-79.	0.9	120
308	Some properties of the vertical structure operators for hydrostatic atmospheric models. <i>Journal of Computational and Applied Mathematics</i> , 2012, 236, 3624-3635.	1.1	0
309	Modeling open boundaries in dissipative MHD simulation. <i>Journal of Computational Physics</i> , 2012, 231, 2963-2976.	1.9	9

#	ARTICLE	IF	CITATIONS
310	Velocities of a spatial-temporal stochastic field with embedded dynamics. <i>Environmetrics</i> , 2012, 23, 238-252.	0.6	7
311	Some considerations for high-order incremental remap-based transport schemes: edges, reconstructions, and area integration. <i>International Journal for Numerical Methods in Fluids</i> , 2013, 71, 1131-1151.	0.9	21
312	A global hexagonal grid non-hydrostatic dynamical core (ICON-IAF) designed for energetic consistency. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2013, 139, 152-175.	1.0	74
313	Controlling model error of underdamped forecast models in sparse observational networks using a variance-limiting Kalman filter. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2013, 139, 212-225.	1.0	4
314	Interpretation of voids or buried pipes using Ground Penetrating Radar modeling. <i>Journal of the Geological Society of India</i> , 2013, 81, 397-404.	0.5	5
315	Gravity Currents Propagating on Sloping Boundaries. <i>Journal of Hydraulic Engineering</i> , 2013, 139, 593-601.	0.7	16
316	Range of validity of an extended WKB theory for atmospheric gravity waves: one-dimensional and two-dimensional case. <i>Journal of Fluid Mechanics</i> , 2013, 729, 330-363.	1.4	13
317	Numerical calculations of two-dimensional large Prandtl number convection in a box. <i>Journal of Fluid Mechanics</i> , 2013, 729, 584-602.	1.4	10
318	Dynamically-Driven Winds. <i>Springer Atmospheric Sciences</i> , 2013, , 121-218.	0.4	30
319	Mesoscale Modeling over Complex Terrain: Numerical and Predictability Perspectives. <i>Springer Atmospheric Sciences</i> , 2013, , 531-589.	0.4	8
320	Limited area NWP and regional climate modeling: a test of the relaxation vs Eta lateral boundary conditions. <i>Meteorology and Atmospheric Physics</i> , 2013, 119, 1-16.	0.9	17
321	The internal gravity wave field emitted by a stably stratified turbulent wake. <i>Journal of Fluid Mechanics</i> , 2013, 720, 104-139.	1.4	71
322	Computational Fluid Dynamics Simulation of Structured Packing. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 2032-2045.	1.8	43
323	The Impact of Noisy Physics on the Stability and Accuracy of Physics-Dynamics Coupling. <i>Monthly Weather Review</i> , 2013, 141, 4470-4486.	0.5	5
324	CFD ANALYSIS OF TERRAIN INDUCED TURBULENCE AT KRISTIANSAND AIRPORT, KJEVIK. <i>Aviation</i> , 2013, 17, 104-112.	0.7	5
325	Uncoupling evolutionary groundwater-surface water flows using the Crank-Nicolson Leapfrog method. <i>Numerical Methods for Partial Differential Equations</i> , 2013, 29, 1192-1216.	2.0	28
326	Forecasting Weather in Croatia Using ALADIN Numerical Weather Prediction Model. , 0, , .		17
327	The Finite Element Sea Ice-Ocean Model (FESOM) v.1.4: formulation of an ocean general circulation model. <i>Geoscientific Model Development</i> , 2014, 7, 663-693.	1.3	205

#	ARTICLE	IF	CITATIONS
328	A two-time-level split-explicit ocean circulation model (MASNUM) and its validation. <i>Acta Oceanologica Sinica</i> , 2014, 33, 11-35.	0.4	10
329	A Computational Realization of a Semi-Lagrangian Method for Solving the Advection Equation. <i>Journal of Applied Mathematics</i> , 2014, 2014, 1-12.	0.4	10
330	Frequency-domain acoustic-wave modeling with hybrid absorbing boundary conditions. <i>Geophysics</i> , 2014, 79, A39-A44.	1.4	30
331	Using Jacobian sensitivities to assess a linearization of the relaxed Arakawa-Schubert convection scheme. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2014, 140, 1319-1332.	1.0	3
332	On the Observability of Oceanic Gyres. <i>Journal of Physical Oceanography</i> , 2014, 44, 2498-2523.	0.7	4
333	Modelling intravascular delivery from drug-eluting stents with biodegradable coating: investigation of anisotropic vascular drug diffusivity and arterial drug distribution. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2014, 17, 187-198.	0.9	31
334	A two-dimensional mixed finite-element pair on rectangles. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2014, 140, 930-942.	1.0	10
335	A High-Accurate Fourier-Galerkin Solution for Buoyancy-Driven Flow in a Square Cavity. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2014, 65, 495-517.	0.6	15
336	Cascades, backscatter and conservation in numerical models of two-dimensional turbulence. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2014, 140, 626-638.	1.0	31
337	Simulations of an isolated two-dimensional thunderstorm: Sensitivity to cloud droplet size and the presence of graupel. <i>Asia-Pacific Journal of Atmospheric Sciences</i> , 2014, 50, 139-151.	1.3	4
338	Multiscale/fractional step schemes for the numerical simulation of the rotating shallow water flows with complex periodic topography. <i>Journal of Computational Physics</i> , 2014, 270, 506-531.	1.9	2
339	LES of a Spatially Developing Atmospheric Boundary Layer: Application of a Fringe Method for the Stratocumulus to Shallow Cumulus Cloud Transition. <i>Monthly Weather Review</i> , 2014, 142, 3418-3424.	0.5	16
340	Modeling the ionospheric propagation of acoustic gravity waves from the Tohoku tsunami of 2011. <i>Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo Universiteta)</i> , 2014, 59, 100-104.	0.1	1
341	A Numerical Method Based on Leapfrog and a Fourth-Order Implicit Time Filter. <i>Monthly Weather Review</i> , 2014, 142, 2545-2560.	0.5	8
342	An ocean circulation model based on Eulerian forward-backward difference scheme and three-dimensional, primitive equations and its application in regional simulations. <i>Journal of Hydrodynamics</i> , 2014, 26, 37-49.	1.3	6
343	On boundary conditions for the gravity wave equations. <i>Journal of Computational and Applied Mathematics</i> , 2014, 259, 312-326.	1.1	0
344	Mixing dynamics at the confluence of two large rivers undergoing weak density variations. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 2386-2402.	1.0	52
345	The equivalent weights particle filter in a high-dimensional system. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015, 141, 484-503.	1.0	57

#	ARTICLE	IF	CITATIONS
346	Generation and propagation of internal tides and solitary waves at the shelf edge of the Bay of Biscay. Journal of Geophysical Research: Oceans, 2015, 120, 6603-6621.	1.0	7
347	Improving assessments of tidal power potential using grid refinement in the Coupled Ocean-Atmosphere-Wave-Sediment Transport model. Journal of Renewable and Sustainable Energy, 2015, 7, 043107.	0.8	5
348	The all-source Green's function (ASGF) and its applications to storm surge modeling, part I: from the governing equations to the ASGF convolution. Ocean Dynamics, 2015, 65, 1743-1760.	0.9	3
349	A semi-Lagrangian algorithm based on the integral transformation for the three-dimensional advection problem. AIP Conference Proceedings, 2015, , .	0.3	2
350	Forced vibrations of a turbine blade undergoing regularized unilateral contact conditions through the wavelet balance method. International Journal for Numerical Methods in Engineering, 2015, 101, 351-374.	1.5	5
351	Some features of the CUDA implementation of the semi-Lagrangian method for the advection problem. AIP Conference Proceedings, 2015, , .	0.3	2
352	Simulation of Turbulent Flows in River Confluences and Meandering Channels with a Cartesian 3D Free Surface Hydrodynamic Model. International Journal of Computational Methods, 2015, 12, 1550035.	0.8	4
353	The composite tendency Robert-Asselin-Williams (RAW) filter in semi-implicit integrations. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 764-773.	1.0	5
354	A new benchmark with high accurate solution for hot-cold fluids mixing. Heat and Mass Transfer, 2015, 51, 1321-1336.	1.2	8
355	A Reference Benchmark Solution for Free Convection in A Square Cavity Filled with A Heterogeneous Porous Medium. Numerical Heat Transfer, Part B: Fundamentals, 2015, 67, 437-462.	0.6	33
356	Fourier-Hermite spectral representation for the Vlasov-Poisson system in the weakly collisional limit. Journal of Plasma Physics, 2015, 81, .	0.7	41
357	The effect of numerical model error on data assimilation. Journal of Computational and Applied Mathematics, 2015, 290, 567-588.	1.1	3
358	NUMERICAL MODELS   Methods. , 2015, , 161-166.		1
359	A linear thermal stability analysis of discretized fluid equations. Theoretical and Computational Fluid Dynamics, 2015, 29, 155-169.	0.9	2
360	Asymptotic analysis of Rayleigh-Taylor flow for Newtonian miscible fluids. Journal of Engineering Mathematics, 2015, 92, 55-71.	0.6	8
361	High-resolution simulations of downslope gravity currents in the acceleration phase. Physics of Fluids, 2015, 27, .	1.6	41
362	A numerical spectral approach to solve the dislocation density transport equation. Modelling and Simulation in Materials Science and Engineering, 2015, 23, 065008.	0.8	29
363	Limiting amplitudes of fully nonlinear interfacial tides and solitons. Nonlinear Processes in Geophysics, 2016, 23, 285-305.	0.6	0

#	ARTICLE	IF	CITATIONS
364	Coarse-grained component concurrency in Earth system modeling: parallelizing atmospheric radiative transfer in the GFDL AM3 model using the Flexible Modeling System coupling framework. <i>Geoscientific Model Development</i> , 2016, 9, 3605-3616.	1.3	17
365	Multi-stage high order semi-Lagrangian schemes for incompressible flows in Cartesian geometries. <i>International Journal for Numerical Methods in Fluids</i> , 2016, 82, 879-892.	0.9	2
366	High-resolution simulations of cylindrical gravity currents in a rotating system. <i>Journal of Fluid Mechanics</i> , 2016, 806, 71-101.	1.4	14
367	High-resolution simulations of non-Boussinesq downslope gravity currents in the acceleration phase. <i>Physics of Fluids</i> , 2016, 28, .	1.6	24
368	Computational methods for plasma fluid models. <i>Journal of Plasma Physics</i> , 2016, 82, .	0.7	0
369	Flow over mountains with the stream velocity shear. <i>Izvestiya - Atmospheric and Oceanic Physics</i> , 2016, 52, 587-595.	0.2	3
370	Numerical investigations on mapping permeability heterogeneity in coal seam gas reservoirs using seismo-electric methods. <i>Journal of Geophysics and Engineering</i> , 2016, 13, S50-S58.	0.7	3
371	The Henry problem: New semianalytical solution for velocity-dependent dispersion. <i>Water Resources Research</i> , 2016, 52, 7382-7407.	1.7	36
372	A new hierarchically-structured n-dimensional covariant form of rotating equations of geophysical fluid dynamics. <i>GEM - International Journal on Geomathematics</i> , 2016, 7, 31-101.	0.7	5
373	A high-accurate solution for Darcy-Brinkman double-diffusive convection in saturated porous media. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2016, 69, 26-47.	0.6	35
374	Computer simulation of microwave propagation in heterogeneous and fractal media. <i>Computers and Geosciences</i> , 2017, 100, 156-165.	2.0	4
376	Global spectral analysis of multi-level time integration schemes: Numerical properties for error analysis. <i>Applied Mathematics and Computation</i> , 2017, 304, 41-57.	1.4	9
377	A Gaussian Mixture Model Smoother for Continuous Nonlinear Stochastic Dynamical Systems: Applications. <i>Monthly Weather Review</i> , 2017, 145, 2763-2790.	0.5	12
378	Multidimensional method-of-lines transport for atmospheric flows over steep terrain using arbitrary meshes. <i>Journal of Computational Physics</i> , 2017, 344, 86-107.	1.9	6
379	Spectral Fourier-Galerkin benchmark solution for natural convection in an inclined saturated porous medium. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2017, 71, 372-395.	0.6	8
380	A Godunov-type finite-volume solver for nonhydrostatic Euler equations with a time-splitting approach. <i>Journal of Advances in Modeling Earth Systems</i> , 2017, 9, 465-481.	1.3	3
381	On the GPS-based ionospheric perturbation after the Tohoku earthquake of March 11, 2011. <i>Izvestiya, Physics of the Solid Earth</i> , 2017, 53, 262-273.	0.2	15
382	Evaluation of large-eddy simulations forced with mesoscale model output for a multi-week period during a measurement campaign. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 7083-7109.	1.9	39

#	ARTICLE	IF	CITATIONS
383	The Utility of the Bering Sea and East Asia Rules in Long-Range Forecasting. <i>Advances in Meteorology</i> , 2017, 2017, 1-14.	0.6	9
384	The ABC model: a non-hydrostatic toy model for use in convective-scale data assimilation investigations. <i>Geoscientific Model Development</i> , 2017, 10, 4419-4441.	1.3	6
386	High-resolution simulations of unstable cylindrical gravity currents undergoing wandering and splitting motions in a rotating system. <i>Physics of Fluids</i> , 2018, 30, .	1.6	12
387	Turbulent structures in cylindrical density currents in a rotating frame of reference. <i>Journal of Turbulence</i> , 2018, 19, 463-492.	0.5	2
388	Semianalytical solutions for contaminant transport under variable velocity field in a coastal aquifer. <i>Journal of Hydrology</i> , 2018, 560, 434-450.	2.3	6
389	Performance of some finite difference methods for a 3D advection-diffusion equation. <i>Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas</i> , 2018, 112, 1179-1210.	0.6	7
390	Distributed Implementation and Verification of Hybridizable Discontinuous Galerkin Methods for Nonhydrostatic Ocean Processes. , 2018, , .		3
391	Structure of Eigenvalues in the Advection-Diffusion Equation by the Spectral Element Method on a Cubed-Sphere Grid. <i>Asia-Pacific Journal of Atmospheric Sciences</i> , 2018, 54, 293-301.	1.3	4
392	Sensitivity of Radiative-Convective Equilibrium to Divergence Damping in GFDL-CM3.2-Based Cloud-Resolving Model Simulations. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 1527-1536.	1.3	3
393	Low Mach Number Limits and Acoustic Waves. , 2018, , 2721-2770.		2
394	A systematic method to enforce conservativity on semi-Lagrangian schemes. <i>International Journal for Numerical Methods in Fluids</i> , 2018, 88, 463-478.	0.9	2
395	New approach to the Lax-Wendroff modified differential equation for linear and nonlinear advection. <i>Numerical Methods for Partial Differential Equations</i> , 2019, 35, 2275-2304.	2.0	9
396	Linear theory of shallow convection in deep, vertically sheared atmospheres. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2019, 145, 3129-3147.	1.0	6
397	Multirate finite step methods. <i>Numerical Algorithms</i> , 2019, 81, 1547-1571.	1.1	1
398	Capability of CAM5.1 in simulating maximum air temperature patterns over West Africa during boreal spring. <i>Modeling Earth Systems and Environment</i> , 2019, 5, 1815-1838.	1.9	2
399	The Conservative Time High-Order AVF Compact Finite Difference Schemes for Two-Dimensional Variable Coefficient Acoustic Wave Equations. <i>Journal of Scientific Computing</i> , 2019, 80, 1279-1309.	1.1	9
400	Determining the optimal grid resolution for topographic analysis on an airborne lidar dataset. <i>Earth Surface Dynamics</i> , 2019, 7, 475-489.	1.0	12
401	Focusing Phenomenon in Numerical Solution of Two-Dimensional Navier-Stokes Equation. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2019, , 1-29.	0.3	0

#	ARTICLE	IF	CITATIONS
403	Superconvergence of Energy-Conserving Discontinuous Galerkin Methods for Linear Hyperbolic Equations. Communications on Applied Mathematics and Computation, 2019, 1, 101-116.	0.7	6
406	Estimation and Dimensional Analysis. , 2019, , 1-35.		0
407	Derivatives and Integrals. , 2019, , 36-128.		0
408	Series and Summations. , 2019, , 129-155.		0
409	Scalars, Vectors, and Matrices. , 2019, , 156-235.		0
412	Vectors and Calculus. , 2019, , 406-447.		0
413	Fourier Series and Integral Transforms. , 2019, , 469-498.		0
415	Tensors. , 2019, , 545-557.		0
420	Rotating planar gravity currents at moderate Rossby numbers: fully resolved simulations and shallow-water modelling. Journal of Fluid Mechanics, 2019, 867, 114-145.	1.4	6
421	Dispersive Behavior of an Energy-Conserving Discontinuous Galerkin Method for the One-Way Wave Equation. Journal of Scientific Computing, 2019, 79, 209-226.	1.1	1
422	Numerical Weather Prediction Basics: Models, Numerical Methods, and Data Assimilation. , 2019, , 67-97.		14
423	A Low-Dispersion Time Differencing Scheme for Maxwell's Equations. IEEE Transactions on Antennas and Propagation, 2019, 67, 3221-3231.	3.1	0
424	Mixing and internal dynamics of a medium-size and deep lake near the Arctic Circle. Limnology and Oceanography, 2019, 64, 61-80.	1.6	5
425	Current and Emerging Time-Integration Strategies in Global Numerical Weather and Climate Prediction. Archives of Computational Methods in Engineering, 2019, 26, 663-684.	6.0	39
426	Discrete energy behavior of a damped Timoshenko system. Computational and Applied Mathematics, 2020, 39, 1.	1.0	4
427	Simple numerical tests for ocean tidal models. Studia Geophysica Et Geodaetica, 2020, 64, 202-240.	0.3	1
428	Statistically Steady State Large-Eddy Simulations Forced by an Idealized GCM: 1. Forcing Framework and Simulation Characteristics. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001814.	1.3	7
429	Central discontinuous Galerkin methods on overlapping meshes for wave equations. ESAIM: Mathematical Modelling and Numerical Analysis, 2021, 55, 329-356.	0.8	1

#	ARTICLE	IF	CITATIONS
430	Consistency and Homogeneity of Atmospheric Energy, Moisture, and Mass Budgets in ERA5. <i>Journal of Climate</i> , 2021, 34, 3955-3974.	1.2	21
431	Gravity currents propagating at the base of a linearly stratified ambient. <i>Physics of Fluids</i> , 2021, 33, .	1.6	8
432	On the Estimation of Deep Atlantic Ventilation from Fossil Radiocarbon Records. Part II. (In)consistency with Modern Estimates. <i>Journal of Physical Oceanography</i> , 2021, , .	0.7	2
434	Parallel PDE-Based Simulations Using the Common Component Architecture. , 2006, , 327-381.		13
435	Numerical Modeling of Severe Local Storms. , 2001, , 123-166.		16
436	Modelling of Stratified Geophysical Flows over Variable Topography. , 2007, , 361-390.		2
437	Some Basic Dynamics Relevant to the Design of Atmospheric Model Dynamical Cores. <i>Lecture Notes in Computational Science and Engineering</i> , 2011, , 3-27.	0.1	7
438	The Pros and Cons of Diffusion, Filters and Fixers in Atmospheric General Circulation Models. <i>Lecture Notes in Computational Science and Engineering</i> , 2011, , 381-493.	0.1	82
439	Stabilizing Fast Waves. <i>Lecture Notes in Computational Science and Engineering</i> , 2011, , 105-140.	0.1	1
440	Atmospheric Transport Schemes: Desirable Properties and a Semi-Lagrangian View on Finite-Volume Discretizations. <i>Lecture Notes in Computational Science and Engineering</i> , 2011, , 185-250.	0.1	41
441	Asymptotic adaptive methods for multi-scale problems in fluid mechanics. , 2001, , 261-343.		19
442	Open Boundary Conditions: Fact and Fiction. <i>Fluid Mechanics and Its Applications</i> , 2001, , 1-18.	0.1	7
443	Numerical Approximations for Global Atmospheric General Circulation Models. , 2000, , 127-219.		14
447	<i>Climatology</i> . , 2003, , 52-149.		5
448	Observational studies. , 2003, , 150-285.		4
449	Theoretical investigations. , 2003, , 286-404.		6
450	Forecasting of polar lows. , 2003, , 501-574.		2
451	Conclusions and future research needs. , 2003, , 575-579.		1

#	ARTICLE	IF	CITATIONS
454	Simulation of generation and propagation of acoustic gravity waves in the atmosphere during a rocket flight. <i>International Journal of Geomagnetism and Aeronomy</i> , 2004, 5, .	0.2	16
455	The FastEddy <sup>®</sup> Resident <sup>®</sup> GPU Accelerated Large <sup>®</sup> Eddy Simulation Framework: Model Formulation, Dynamical <sup>®</sup> Core Validation and Performance Benchmarks. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2020MS002100.	1.3	18
456	Scale-dependent anisotropy in forced stratified turbulence. <i>Physical Review Fluids</i> , 2019, 4, .	1.0	12
457	Advection Equation with Oscillating Forcing: Numerical Aspects. <i>Monthly Weather Review</i> , 2003, 131, 984-989.	0.5	2
458	Marine Boundary Layers above Heterogeneous SST: Across-Front Winds. <i>Journals of the Atmospheric Sciences</i> , 2020, 77, 4251-4275.	0.6	14
459	The Mechanisms Responsible for Large Near-Surface Vertical Vorticity within Simulated Supercells and Quasi-Linear Storms. <i>Monthly Weather Review</i> , 2020, 148, 4281-4297.	0.5	12
460	2 <sup>nd</sup> wave equation modeling and migration by a new finite difference scheme based on the Galerkin method. , 2004, , .		10
461	Precise Prediction of Coastal and Overland Flow Dynamics: A Grand Challenge or a Fool <sup>™</sup> 's Errand. <i>Journal of Disaster Research</i> , 2016, 11, 615-623.	0.4	16
464	A Three-Dimensional Icosahedral Grid Advection Scheme Preserving Monotonicity and Consistency with Continuity for Atmospheric Tracer Transport. <i>Journal of the Meteorological Society of Japan</i> , 2011, 89, 255-268.	0.7	53
467	Model-based estimates of <i>Calanus finmarchicus</i> abundance in the Gulf of Maine. <i>Marine Ecology - Progress Series</i> , 2009, 378, 227-243.	0.9	17
468	Energy conserving local discontinuous Galerkin methods for wave propagation problems. <i>Inverse Problems and Imaging</i> , 2013, 7, 967-986.	0.6	43
469	Application of Data Mining and Analysis Techniques for Renewable Energy Network Design and Optimization. , 2016, , 543-557.		2
470	Numerical Study of a West African Squall Line Using a Regional Climate Model. <i>Atmospheric and Climate Sciences</i> , 2012, 02, 14-22.	0.1	4
472	Einf <sup>¼</sup> hrung in die numerische Wettervorhersage. , 2002, , 231-239.		0
473	The Role of the Quasi-Biennial Oscillation in Stratospheric Dehydration. , 2003, , 79-84.		0
474	Atmospheric Modelling. , 2003, , 149-166.		0
476	Numerical simulation. , 2003, , 405-500.		0
478	Adaptive Irregular Sampling in Meshfree Flow Simulation. , 2004, , 289-309.		1

#	ARTICLE	IF	CITATIONS
481	Animating Water Waves Using Semi-Lagrangian Techniques. Mathematics in Industry, 2006, , 494-498.	0.1	0
482	Abordagem por Elementos Finitos para Modelagem Sismica. , 2007, , .		1
483	Abordagem por Elementos Finitos para Modelagem Sismica. , 2007, , .		1
484	Time Splitting with Improved Accuracy for the Shallow Water Equations. , 2008, , 339-346.		0
485	Analytical Solutions For Mathematical Verification. , 2008, , 45-119.		0
486	Optimization Of Absorbing Boundary Methods For Acoustic Wave Modelling. , 2009, , .		1
487	NUMERICAL SIMULATION OF FLOW OVER TWO-DIMENSIONAL MOUNTAIN RIDGE USING SIMPLE ISENTROPIC MODEL. Jurnal Meteorologi Dan Geofisika, 2014, 10, .	0.1	0
488	The HyperCASL algorithm. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2010, , 289-298.	0.1	0
490	The Challenges of High Order Methods in Numerical Weather Prediction. Lecture Notes in Computational Science and Engineering, 2011, , 255-266.	0.1	0
491	Time Discretization: Some Basic Approaches. Lecture Notes in Computational Science and Engineering, 2011, , 75-104.	0.1	0
492	Application of Data Mining and Analysis Techniques for Renewable Energy Network Design and Optimization. Advances in Data Mining and Database Management Book Series, 2014, , 33-47.	0.4	1
494	Semi-Lagrangian Semi-Implicit Vertically Splitting Scheme for Nonhydrostatic Atmospheric Model. Lecture Notes in Computer Science, 2015, , 104-118.	1.0	0
495	Construction of the Spherical High-Order Filter for Applications to Global Meteorological Data. Journal of the Korean Earth Science Society, 2015, 36, 476-483.	0.0	1
497	Anelastic Approximation of Compressible Isentropic Navier-Stokes Equations with Exterior Force. Advances in Applied Mathematics, 2017, 06, 1207-1219.	0.0	0
498	Dynamics of Ideal Fluid on a Sphere. , 2017, , 79-108.		0
499	Low Mach Number Limits and Acoustic Waves. , 2017, , 1-50.		0
500	Numerical Weather Prediction Basics: Models, Numerical Methods, and Data Assimilation. , 2018, , 1-31.		8
501	Effect of Nonuniform Vertical Grid on the Accuracy of Two-Dimensional Transport Model. Journal of the Korean Earth Science Society, 2018, 39, 317-326.	0.0	0

#	ARTICLE	IF	CITATIONS
504	Application of Vertical Grid-nesting to the Tropical Cyclone Track and Intensity Forecast. Journal of the Korean Earth Science Society, 2019, 40, 382-391.	0.0	0
505	Transient growth analysis of oblique shock-wave/boundary-layer interactions at Mach 5.92. Physical Review Fluids, 2020, 5, .	1.0	10
506	On the merging and splitting processes in the lobe-and-cleft structure at a gravity current head. Journal of Fluid Mechanics, 2022, 930, .	1.4	9
507	On the Construction of Mass Conservative and Meshless Adaptive Particle Advection Methods. , 2007, , 169-186.		0
508	A Splitting Scheme for Large-Scale Atmosphere Dynamics Models. Lecture Notes in Computer Science, 2008, , 627-640.	1.0	0
509	Stability of Semi-implicit Atmospheric Models with Respect to the Reference Temperature Profile. , 2006, , 427-434.		0
510	Einführung in die numerische Wettervorhersage und Klimamodellierung. , 2008, , 243-254.		0
511	The performance of filtered leapfrog schemes in benchmark simulations. Quarterly Journal of the Royal Meteorological Society, 2022, 148, 784-808.	1.0	3
512	Back-and-forth nudging for the quasi-geostrophic ocean dynamics with altimetry: Theoretical convergence study and numerical experiments with the future SWOT observations. Discrete and Continuous Dynamical Systems - Series S, 2022, .	0.6	1
513	Mass transport in a moist planetary climate model. Astronomy and Astrophysics, 2022, 659, A43.	2.1	1
514	Finite Element Approximations of a Class of Nonlinear Stochastic Wave Equations with Multiplicative Noise. Journal of Scientific Computing, 2022, 91, 1.	1.1	3
515	Working with Dynamic Earthquake Rupture Models: A Practical Guide. Seismological Research Letters, 2022, 93, 2096-2110.	0.8	12
516	Interactive Large-Scale Flood Scenario Dynamic Early Warning Simulation. Jisuanji Fuzhu Sheji Yu Tuxingxue Xuebao/Journal of Computer-Aided Design and Computer Graphics, 2022, 34, 63-73.	0.2	0
517	Energy balances for the collision of gravity currents of equal strengths. Journal of Fluid Mechanics, 2023, 959, .	1.4	1