

# Pierre BÃ©nard

## List of Publications by Year in descending order

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23  
papers

1,455  
citations

759233

12  
h-index

642732

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g-index

23  
all docs

23  
docs citations

23  
times ranked

1471  
citing authors

#	ARTICLE	IF	CITATIONS
1	The AROME-France Convective-Scale Operational Model. <i>Monthly Weather Review</i> , 2011, 139, 976-991.	1.4	709
2	Integration of the Fully Elastic Equations Cast in the Hydrostatic Pressure Terrain-Following Coordinate in the Framework of the ARPEGE/Aladin NWP System. <i>Monthly Weather Review</i> , 1995, 123, 515-535.	1.4	275
3	The ALADIN System and its canonical model configurations AROME CY41T1 and ALARO CY40T1. <i>Geoscientific Model Development</i> , 2018, 11, 257-281.	3.6	133
4	Dynamical kernel of the Aladin-NH spectral limited-area model: Revised formulation and sensitivity experiments. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2010, 136, 155-169.	2.7	105
5	Stability of Semi-Implicit and Iterative Centered-Implicit Time Discretizations for Various Equation Systems Used in NWP. <i>Monthly Weather Review</i> , 2003, 131, 2479-2491.	1.4	41
6	Flux-conservative thermodynamic equations in a mass-weighted framework. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2007, 59, 71-79.	1.7	35
7	Introduction of a local mapping factor in the spectral part of the Meteo-France global variable mesh numerical forecast model. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1996, 122, 1701-1719.	2.7	21
8	Stabilization of Nonlinear Vertical Diffusion Schemes in the Context of NWP Models. <i>Monthly Weather Review</i> , 2000, 128, 1937-1948.	1.4	19
9	The ESCAPE project: Energy-efficient Scalable Algorithms for Weather Prediction at Exascale. <i>Geoscientific Model Development</i> , 2019, 12, 4425-4441.	3.6	19
10	On the Use of a Wider Class of Linear Systems for the Design of Constant-Coefficients Semi-Implicit Time Schemes in NWP. <i>Monthly Weather Review</i> , 2004, 132, 1319-1324.	1.4	17
11	Stability of Leapfrog Constant-Coefficients Semi-Implicit Schemes for the Fully Elastic System of Euler Equations: Flat-Terrain Case. <i>Monthly Weather Review</i> , 2004, 132, 1306-1318.	1.4	16
12	An assessment of global forecast errors due to the spherical geopotential approximation in the shallow-water case. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015, 141, 195-206.	2.7	13
13	Stability of Leapfrog Constant-Coefficients Semi-Implicit Schemes for the Fully Elastic System of Euler Equations: Case with Orography. <i>Monthly Weather Review</i> , 2005, 133, 1065-1075.	1.4	12
14	An oblate-spheroid geopotential approximation for global meteorology. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2014, 140, 170-184.	2.7	9
15	Introduction of a local mapping factor in the spectral part of the Meteo-France global variable mesh numerical forecast model. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1996, 122, 1701-1719.	2.7	8
16	Circumventing the pole problem of reduced latitude grids with local schemes. Part I: Analysis and model formulation. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2019, 145, 1377-1391.	2.7	5
17	RK-MEX HEVI schemes for fully compressible atmospheric models with advection: analyses and numerical testing. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2017, 143, 1336-1350.	2.7	4
18	Semi-implicit integration of the unified equations in a mass-based coordinate: model formulation and numerical testing. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2019, 145, 3387-3408.	2.7	4

#	ARTICLE	IF	CITATIONS
19	A refined semi-Lagrangian vertical trajectory scheme applied to a hydrostatic atmospheric model. Quarterly Journal of the Royal Meteorological Society, 2002, 128, 323-336.	2.7	3
20	Circumventing the pole problem of reduced latitude grids with local schemes. Part II: Validation experiments. Quarterly Journal of the Royal Meteorological Society, 2019, 145, 1392-1405.	2.7	2
21	Numerical investigation of Rossby waves for nonlinear shallow-water equations on the sphere. Quarterly Journal of the Royal Meteorological Society, 2019, 145, 1461-1473.	2.7	2
22	Stability of Rossby-Haurwitz waves. Quarterly Journal of the Royal Meteorological Society, 2020, 146, 613-628.	2.7	2
23	Krylov solvers in a vertical-slice version of the semi-implicit semi-Lagrangian AROME model. Quarterly Journal of the Royal Meteorological Society, 2021, 147, 1497-1515.	2.7	1