

Publications by Jan Nordström

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5 most cited publications

(Google Scholar, Scopus, Web of Science)

1. M. H. Carpenter, J. Nordström & D. Gottlieb, A Stable and Conservative Interface Treatment of Arbitrary Spatial Accuracy, *Journal of Computational Physics*, Vol. 148 No. 2, pp. 341-365, 1999. Number of citations: (353, 252, 176)
2. K. Mattson & J. Nordström, Summation by parts operators for finite difference approximations of second derivatives, *Journal of Computational Physics*, Vol. 199, pp. 503-540, 2004. Number of citations: (247, 170, 129)
3. M. Svärd & J. Nordström, On the Order of Accuracy for Difference Approximations of Initial-Boundary Value Problems, *Journal of Computational Physics*, Vol. 218, pp. 333-352, 2006. Number of citations: (158, 97, 83)
4. J. Nordström & M. H. Carpenter, Boundary and Interface Conditions for High Order Finite Difference Methods Applied to the Euler and Navier Stokes Equations, *Journal of Computational Physics*, Vol. 152 No. 2, pp. 621-645, 1999. Number of citations: (154, 105, 63)
5. M. Svärd, M. H. Carpenter & J. Nordström, A Stable High-Order Finite Difference Scheme for the Compressible Navier-Stokes Equations, far-field boundary conditions, *Journal of Computational Physics*, Volume 225, Issue 1, Pages 1020-1038, 2007. Number of citations: (150, 120, 76)

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(Google Scholar: 30, Scopus: 25, Web of Science: 23)

Articles

100. H. Frenander & J. Nordström, A stable and accurate data assimilation technique using multiple penalty terms in space and time, Accepted in *Dynamics of Atmospheres and Oceans*.

99. M. Wahlsten & J. Nordström, The effect of uncertain geometries on advection-diffusion of scalar quantities, Accepted in BIT Numerical Mathematics.
98. F. Ghasemi & J. Nordström, Coupling Requirements for Multiphysics Problems Posed on Two Domains, Accepted in SIAM Journal of Numerical Analysis.
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95. S. Eriksson & J. Nordström, Exact Non-Reflecting Boundary Conditions Revisited: Well-Posedness and Stability. Accepted in Foundations of Computational Mathematics.
94. O. O'reilly, T. Lundquist, E.M. Dunham & J. Nordström. Energy stable and high-order-accurate finite difference methods on staggered grids, Journal of Computational Physics, Vol 346, pp. 572-589, 2017.
93. D. A. Kopriva, J. Nordström & G. Gassner, Error Boundedness of Discontinuous Galerkin Spektral Element Approximations of Hyperbolic Problems, Journal of Scientific Computing, Vol 72, pp. 314-330, 2017.
92. J. Nordström & A. Ruggiu, On Conservation and Stability Properties for Summation-By-Parts Schemes, Journal of Computational Physics, Vol 344, pp. 451-464, 2017.
91. J. Nordström & F. Ghasemi, On the relation between conservation and dual consistency for summation-by-parts schemes, Journal of Computational Physics, Vol 344, pp. 437-439, 2017.
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Books

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10. P. Eliasson, M. Kupiainen & J. Nordström, Higher Order Accurate Solutions for Flow in a Cavity: Experiences and Lessons Learned, *Spectral and High Order Methods for Partial Differential Equations ICOSAHOM 2014, Lecture Notes in Computational Science and Engineering*, No. 106, 189-196, 2015.
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