

Nicholas Hale

List of Publications by Year in descending order

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19
papers

674
citations

840585

11
h-index

794469

19
g-index

19
all docs

19
docs citations

19
times ranked

506
citing authors

#	ARTICLE	IF	CITATIONS
1	An Efficient Implicit FEM Scheme for Fractional-in-Space Reaction-Diffusion Equations. SIAM Journal of Scientific Computing, 2012, 34, A2145-A2172.	1.3	172
2	Computing A^α , $\log(A)$, and Related Matrix Functions by Contour Integrals. SIAM Journal on Numerical Analysis, 2008, 46, 2505-2523.	1.1	129
3	Fast and Accurate Computation of Gauss–Legendre and Gauss–Jacobi Quadrature Nodes and Weights. SIAM Journal of Scientific Computing, 2013, 35, A652-A674.	1.3	123
4	New Quadrature Formulas from Conformal Maps. SIAM Journal on Numerical Analysis, 2008, 46, 930-948.	1.1	50
5	A Fast, Simple, and Stable Chebyshev–Legendre Transform Using an Asymptotic Formula. SIAM Journal of Scientific Computing, 2014, 36, A148-A167.	1.3	40
6	Chebfun and numerical quadrature. Science China Mathematics, 2012, 55, 1749-1760.	0.8	28
7	Conformal Maps to Multiply Slit Domains and Applications. SIAM Journal of Scientific Computing, 2009, 31, 3195-3215.	1.3	22
8	Rectangular spectral collocation. IMA Journal of Numerical Analysis, 2015, , dru062.	1.5	18
9	An Algorithm for the Convolution of Legendre Series. SIAM Journal of Scientific Computing, 2014, 36, A1207-A1220.	1.3	17
10	The ultraspherical spectral element method. Journal of Computational Physics, 2021, 436, 110087.	1.9	15
11	A Fast and Spectrally Convergent Algorithm for Rational-Order Fractional Integral and Differential Equations. SIAM Journal of Scientific Computing, 2018, 40, A2456-A2491.	1.3	14
12	A fast FFT-based discrete Legendre transform. IMA Journal of Numerical Analysis, 2016, 36, 1670-1684.	1.5	12
13	An ultraspherical spectral method for linear Fredholm and Volterra integro-differential equations of convolution type. IMA Journal of Numerical Analysis, 2019, 39, 1727-1746.	1.5	9
14	Quadratic Padé Approximation: Numerical Aspects and Applications. Computer Research and Modeling, 2019, 11, 1017-1031.	0.2	7
15	Explicit construction of rectangular differentiation matrices. IMA Journal of Numerical Analysis, 2016, 36, 618-632.	1.5	6
16	CONVECTION AND HEAT TRANSFER IN LAYERED SLOPING, WARM-WATER AQUIFERS. Journal of Porous Media, 2011, 14, 329-343.	1.0	6
17	Pricing European-type, early-exercise and discrete barrier options using an algorithm for the convolution of Legendre series. Quantitative Finance, 2020, 20, 1307-1324.	0.9	3
18	Contour Integral Solution of Elliptic PDEs in Cylindrical Domains. SIAM Journal of Scientific Computing, 2015, 37, A2630-A2655.	1.3	2

#	ARTICLE	IF	CITATIONS
19	Prandtl's extended mixing length model applied to the two-dimensional turbulent classical far wake. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2021, 477, 20200875.	1.0	1