

Graeme Fairweather

List of Publications by Year in descending order

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25
papers

1,204
citations

687363

13
h-index

642732

23
g-index

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all docs

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docs citations

25
times ranked

501
citing authors

#	ARTICLE	IF	CITATIONS
1	The Crank-Nicolson orthogonal spline collocation method for one-dimensional parabolic problems with interfaces. <i>Journal of Computational and Applied Mathematics</i> , 2021, 383, 113119.	2.0	2
2	A quadratic spline collocation method for the Dirichlet biharmonic problem. <i>Numerical Algorithms</i> , 2020, 83, 165-199.	1.9	6
3	High-order discrete-time orthogonal spline collocation methods for singularly perturbed 1D parabolic reaction-diffusion problems. <i>Numerical Methods for Partial Differential Equations</i> , 2020, 36, 495-523.	3.6	4
4	A fourth-order orthogonal spline collocation method for two-dimensional Helmholtz problems with interfaces. <i>Numerical Methods for Partial Differential Equations</i> , 2020, 36, 1811-1829.	3.6	2
5	High-order orthogonal spline collocation methods for two-point boundary value problems with interfaces. <i>Mathematics and Computers in Simulation</i> , 2020, 174, 102-122.	4.4	3
6	Matrix decomposition algorithms for elliptic boundary value problems: a survey. <i>Numerical Algorithms</i> , 2011, 56, 253-295.	1.9	41
7	Compact optimal quadratic spline collocation methods for the Helmholtz equation. <i>Journal of Computational Physics</i> , 2011, 230, 2880-2895.	3.8	24
8	ADI orthogonal spline collocation methods for parabolic partial integro-differential equations. <i>IMA Journal of Numerical Analysis</i> , 2010, 30, 248-276.	2.9	38
9	Matrix decomposition algorithms for the C0-quadratic finite element Galerkin method. <i>BIT Numerical Mathematics</i> , 2009, 49, 509-526.	2.0	8
10	Matrix decomposition algorithms for the finite element Galerkin method with piecewise Hermite cubics. <i>Numerical Algorithms</i> , 2009, 52, 1-23.	1.9	3
11	Orthogonal spline collocation methods for the stream function-vorticity formulation of the Navier-Stokes equations. <i>Numerical Methods for Partial Differential Equations</i> , 2008, 24, 449-464.	3.6	14
12	OPTIMAL SUPERCONVERGENT ONE STEP QUADRATIC SPLINE COLLOCATION METHODS FOR HELMHOLTZ PROBLEMS. , 2008, , .		2
13	Potential field based geometric modelling using the method of fundamental solutions. <i>International Journal for Numerical Methods in Engineering</i> , 2006, 68, 1257-1280.	2.8	18
14	A matrix decomposition MFS algorithm for axisymmetric biharmonic problems. <i>Advances in Computational Mathematics</i> , 2005, 23, 55-71.	1.6	13
15	Optimal Superconvergent One Step Nodal Cubic Spline Collocation Methods. <i>SIAM Journal of Scientific Computing</i> , 2005, 27, 575-598.	2.8	9
16	Algorithms for Almost Block Diagonal Linear Systems. <i>SIAM Review</i> , 2004, 46, 49-58.	9.5	40
17	Matrix Decomposition Algorithms for Modified Spline Collocation for Helmholtz Problems. <i>SIAM Journal of Scientific Computing</i> , 2003, 24, 1733-1753.	2.8	15
18	Numerical solutions of the orbital equations for diatomic molecules. <i>Molecular Physics</i> , 2000, 98, 1175-1184.	1.7	6

#	ARTICLE	IF	CITATIONS
19	The method of fundamental solutions for axisymmetric potential problems. <i>International Journal for Numerical Methods in Engineering</i> , 1999, 44, 1653-1669.	2.8	56
20	The method of fundamental solutions for elliptic boundary value problems. <i>Advances in Computational Mathematics</i> , 1998, 9, 69-95.	1.6	797
21	Orthogonal spline collocation methods for biharmonic problems. <i>Numerische Mathematik</i> , 1998, 80, 267-303.	1.9	23
22	The method of fundamental solutions for axisymmetric acoustic scattering and radiation problems. <i>Journal of the Acoustical Society of America</i> , 1998, 104, 3212-3218.	1.1	36
23	The solution of almost block diagonal linear systems arising in spline collocation at Gaussian points with monomial basis functions. <i>ACM Transactions on Mathematical Software</i> , 1992, 18, 193-204.	2.9	22
24	Algorithm 704: ABDPACK and ABBPACK-FORTRAN programs for the solution of almost block diagonal linear systems arising in spline collocation at Gaussian points with monomial basis functions. <i>ACM Transactions on Mathematical Software</i> , 1992, 18, 205-210.	2.9	22
25	An optimal two-step quadratic spline collocation method for the Dirichlet biharmonic problem. <i>Numerical Algorithms</i> , 0, , 1.	1.9	0