

Graeme Fairweather

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/555175/publications.pdf>

Version: 2024-02-01

25
papers

1,204
citations

687363

13
h-index

642732

23
g-index

25
all docs

25
docs citations

25
times ranked

501
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | The method of fundamental solutions for elliptic boundary value problems. <i>Advances in Computational Mathematics</i> , 1998, 9, 69-95. | 1.6 | 797 |
| 2 | 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 |
| 3 | Matrix decomposition algorithms for elliptic boundary value problems: a survey. <i>Numerical Algorithms</i> , 2011, 56, 253-295. | 1.9 | 41 |
| 4 | Algorithms for Almost Block Diagonal Linear Systems. <i>SIAM Review</i> , 2004, 46, 49-58. | 9.5 | 40 |
| 5 | 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 |
| 6 | 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 |
| 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 | Orthogonal spline collocation methods for biharmonic problems. <i>Numerische Mathematik</i> , 1998, 80, 267-303. | 1.9 | 23 |
| 9 | 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 |
| 10 | 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 |
| 11 | 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 |
| 12 | Matrix Decomposition Algorithms for Modified Spline Collocation for Helmholtz Problems. <i>SIAM Journal of Scientific Computing</i> , 2003, 24, 1733-1753. | 2.8 | 15 |
| 13 | 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 |
| 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 | Matrix decomposition algorithms for the C ⁰ -quadratic finite element Galerkin method. <i>BIT Numerical Mathematics</i> , 2009, 49, 509-526. | 2.0 | 8 |
| 17 | Numerical solutions of the orbital equations for diatomic molecules. <i>Molecular Physics</i> , 2000, 98, 1175-1184. | 1.7 | 6 |
| 18 | A quadratic spline collocation method for the Dirichlet biharmonic problem. <i>Numerical Algorithms</i> , 2020, 83, 165-199. | 1.9 | 6 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | High-order discrete-time orthogonal spline collocation methods for singularly perturbed 1D parabolic reaction-diffusion problems. Numerical Methods for Partial Differential Equations, 2020, 36, 495-523. | 3.6 | 4 |
| 20 | Matrix decomposition algorithms for the finite element Galerkin method with piecewise Hermite cubics. Numerical Algorithms, 2009, 52, 1-23. | 1.9 | 3 |
| 21 | High-order orthogonal spline collocation methods for two-point boundary value problems with interfaces. Mathematics and Computers in Simulation, 2020, 174, 102-122. | 4.4 | 3 |
| 22 | A fourth-order orthogonal spline collocation method for two-dimensional Helmholtz problems with interfaces. Numerical Methods for Partial Differential Equations, 2020, 36, 1811-1829. | 3.6 | 2 |
| 23 | The Crank-Nicolson orthogonal spline collocation method for one-dimensional parabolic problems with interfaces. Journal of Computational and Applied Mathematics, 2021, 383, 113119. | 2.0 | 2 |
| 24 | OPTIMAL SUPERCONVERGENT ONE STEP QUADRATIC SPLINE COLLOCATION METHODS FOR HELMHOLTZ PROBLEMS. , 2008, , . | | 2 |
| 25 | An optimal two-step quadratic spline collocation method for the Dirichlet biharmonic problem. Numerical Algorithms, 0, , 1. | 1.9 | 0 |