

# Alan F F Hegarty

## List of Publications by Year in descending order

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20  
papers

291  
citations

1307594

7  
h-index

888059

17  
g-index

20  
all docs

20  
docs citations

20  
times ranked

86  
citing authors

#	ARTICLE	IF	CITATIONS
1	Global maximum norm parameter-uniform numerical method for a singularly perturbed convection-diffusion problem with discontinuous convection coefficient. <i>Mathematical and Computer Modelling</i> , 2004, 40, 1375-1392.	2.0	71
2	Singularly perturbed convection-diffusion problems with boundary and weak interior layers. <i>Journal of Computational and Applied Mathematics</i> , 2004, 166, 133-151.	2.0	71
3	A Comparison of Uniformly Convergent Difference Schemes for Two-Dimensional Convection-Diffusion Problems. <i>Journal of Computational Physics</i> , 1993, 105, 24-32.	3.8	37
4	Special Meshes for Finite Difference Approximations to an Advection-Diffusion Equation with Parabolic Layers. <i>Journal of Computational Physics</i> , 1995, 117, 47-54.	3.8	34
5	Numerical solution of a convection diffusion problem with Robin boundary conditions. <i>Journal of Computational and Applied Mathematics</i> , 2003, 156, 221-238.	2.0	30
6	A note on iterative methods for solving singularly perturbed problems using non-monotone methods on Shishkin meshes. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2003, 192, 3673-3687.	6.6	10
7	Use of central-difference operators for solution of singularly perturbed problems. <i>Communications in Numerical Methods in Engineering</i> , 1994, 10, 297-302.	1.3	7
8	A note on fitted operator methods for a laminar jet problem. <i>Applied Numerical Mathematics</i> , 2003, 45, 353-365.	2.1	7
9	On a novel mesh for the regular boundary layers arising in advection-dominated transport in two dimensions. <i>Communications in Numerical Methods in Engineering</i> , 1995, 11, 435-441.	1.3	5
10	Parameter-uniform numerical methods for a laminar jet problem. <i>International Journal for Numerical Methods in Fluids</i> , 2003, 43, 937-951.	1.6	4
11	An experimental technique for computing parameter-uniform error estimates for numerical solutions of singular perturbation problems, with an application to Prandtl's problem at high Reynolds number. <i>Applied Numerical Mathematics</i> , 2002, 40, 143-149.	2.1	3
12	Parameter-uniform numerical method for singularly perturbed convection-diffusion problem on a circular domain. <i>Advances in Computational Mathematics</i> , 2017, 43, 885-909.	1.6	3
13	Numerical Solution of a Singularly Perturbed Problem on a Circular Domain. <i>Modelirovanie I Analiz Informacionnyh Sistem</i> , 2016, 23, 349-356.	0.3	3
14	Parameter-Uniform Numerical Methods for a Class of Singularly Perturbed Problems with a Neumann Boundary Condition. <i>Lecture Notes in Computer Science</i> , 2001, , 292-303.	1.3	2
15	Numerical techniques for flow problems with singularities. <i>International Journal for Numerical Methods in Fluids</i> , 2003, 43, 915-936.	1.6	2
16	Numerical results for advection-dominated heat transfer in a moving fluid with a non-slip boundary condition. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 1995, 5, 131-140.	2.8	1
17	Computing realistic Reynolds-uniform error bounds for discrete derivatives of flow velocities in the boundary layer for Prandtl's problem. <i>International Journal for Numerical Methods in Fluids</i> , 2003, 43, 895-902.	1.6	1
18	A Parameter Robust Method for a Problem with a Symmetry Boundary Layer. <i>Lecture Notes in Computer Science</i> , 2001, , 18-26.	1.3	0

#	ARTICLE	IF	CITATIONS
19	On a Necessary Requirement for Re-Uniform Numerical Methods to Solve Boundary Layer Equations for Flow along a Flat Plate. Lecture Notes in Computer Science, 2001, , 723-731.	1.3	0
20	Numerical Solution of a Rimming Flow Problem Using a Moving Mesh Method. Computational Methods in Applied Mathematics, 2003, 3, 373-386.	0.8	0