

Christos Xenophontos

List of Publications by Year in descending order

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49
papers

577
citations

567281

15
h-index

677142

22
g-index

51
all docs

51
docs citations

51
times ranked

213
citing authors

#	ARTICLE	IF	CITATIONS
1	The hp finite element method for problems in mechanics with boundary layers. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1998, 157, 311-333.	6.6	59
2	An analytical method for linear elliptic PDEs and its numerical implementation. <i>Journal of Computational and Applied Mathematics</i> , 2004, 167, 465-483.	2.0	41
3	The solution of Laplacian problems over L-shaped domains with a singular function boundary integral method. <i>Communications in Numerical Methods in Engineering</i> , 2002, 18, 213-222.	1.3	33
4	Robust Approximation of Singularly Perturbed Delay Differential Equations by the <i>hp</i> Finite Element Method. <i>Computational Methods in Applied Mathematics</i> , 2013, 13, 21-37.	0.8	33
5	Robust exponential convergence of hp -FEM in balanced norms for singularly perturbed reaction-diffusion equations. <i>Calcolo</i> , 2016, 53, 105-132.	1.1	30
6	Finite Element Analysis of an Exponentially Graded Mesh for Singularly Perturbed Problems. <i>Computational Methods in Applied Mathematics</i> , 2015, 15, 135-143.	0.8	25
7	Solution of the planar Newtonian stick-slip problem with the singular function boundary integral method. <i>International Journal for Numerical Methods in Fluids</i> , 2005, 48, 1001-1021.	1.6	24
8	Solving Laplacian problems with boundary singularities: a comparison of a singular function boundary integral method with the <i>p</i> / <i>hp</i> version of the finite element method. <i>Applied Mathematics and Computation</i> , 2005, 169, 485-499.	2.2	23
9	A Singular Function Boundary Integral Method for Laplacian Problems with Boundary Singularities. <i>SIAM Journal of Scientific Computing</i> , 2006, 28, 517-532.	2.8	23
10	Optimal mesh design for the finite element approximation of reaction-diffusion problems. <i>International Journal for Numerical Methods in Engineering</i> , 2002, 53, 929-943.	2.8	22
11	A numerical study on the finite element solution of singularly perturbed systems of reaction-diffusion problems. <i>Applied Mathematics and Computation</i> , 2007, 187, 1351-1367.	2.2	22
12	Cessation of annular Poiseuille flows of Bingham plastics. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2007, 142, 135-142.	2.4	19
13	Robust exponential convergence of <i>hp</i> FEM for singularly perturbed reaction-diffusion systems with multiple scales. <i>IMA Journal of Numerical Analysis</i> , 2013, 33, 609-628.	2.9	18
14	The <i>hp</i> finite element method for singularly perturbed problems in nonsmooth domains. <i>Numerical Methods for Partial Differential Equations</i> , 1999, 15, 63-89.	3.6	17
15	Application of the <i>p</i> -version of the finite element method to elastoplasticity with localization of deformation. <i>Communications in Numerical Methods in Engineering</i> , 1999, 15, 867-876.	1.3	16
16	Special boundary approximation methods for laplace equation problems with boundary singularities—Applications to the motz problem. <i>Computers and Mathematics With Applications</i> , 2006, 51, 115-142.	2.7	16
17	Uniform approximation of singularly perturbed reaction-diffusion problems by the finite element method on a Shishkin mesh. <i>Numerical Methods for Partial Differential Equations</i> , 2003, 19, 89-111.	3.6	15
18	Finite element approximation of convection-diffusion problems using an exponentially graded mesh. <i>Computers and Mathematics With Applications</i> , 2016, 72, 1532-1540.	2.7	15

#	ARTICLE	IF	CITATIONS
19	The singular function boundary integral method for a two-dimensional fracture problem. <i>Engineering Analysis With Boundary Elements</i> , 2006, 30, 100-106.	3.7	13
20	The singular function boundary integral method for biharmonic problems with crack singularities. <i>Engineering Analysis With Boundary Elements</i> , 2007, 31, 209-215.	3.7	13
21	A C 1 -conforming hp finite element method for fourth order singularly perturbed boundary value problems. <i>Applied Numerical Mathematics</i> , 2016, 104, 81-97.	2.1	13
22	Numerical analysis meets number theory: Using rootfinding methods to calculate inverses mod pn. <i>Applicable Analysis and Discrete Mathematics</i> , 2010, 4, 23-31.	0.7	9
23	An hp finite element method for 4th order singularly perturbed problems. <i>Numerical Algorithms</i> , 2016, 73, 567-590.	1.9	9
24	Finite element approximation of reaction-diffusion problems using an exponentially graded mesh. <i>Computers and Mathematics With Applications</i> , 2018, 76, 2523-2534.	2.7	9
25	Analytic regularity for a singularly perturbed system of reaction-diffusion equations with multiple scales. <i>Advances in Computational Mathematics</i> , 2013, 39, 367-394.	1.6	7
26	The singular function boundary integral method for 3-D Laplacian problems with a boundary straight edge singularity. <i>Applied Mathematics and Computation</i> , 2012, 219, 1073-1081.	2.2	6
27	A p-version MITC finite element method for Reissner-Mindlin plates with curved boundaries. <i>Journal of Computational and Applied Mathematics</i> , 2006, 192, 374-395.	2.0	5
28	Analysis of the singular function boundary integral method for a biharmonic problem with one boundary singularity. <i>Numerical Methods for Partial Differential Equations</i> , 2012, 28, 749-767.	3.6	5
29	A Parameter Robust Finite Element Method for Fourth Order Singularly Perturbed Problems. <i>Computational Methods in Applied Mathematics</i> , 2017, 17, 337-349.	0.8	5
30	A note on the convergence rate of the finite element method for singularly perturbed problems using the Shishkin mesh. <i>Applied Mathematics and Computation</i> , 2003, 142, 545-559.	2.2	4
31	An h - p finite element method for a 4th order singularly perturbed boundary value problem in two dimensions. <i>Computers and Mathematics With Applications</i> , 2017, 74, 1565-1575.	2.7	4
32	On the effects of using curved elements in the approximation of the Reissner-Mindlin plate by the p version of the finite element method. <i>Applied Numerical Mathematics</i> , 2003, 46, 231-246.	2.1	3
33	Anhpfinite element method for singularly perturbed systems of reactiondiffusion equations. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2007, 7, 2020055-2020056.	0.2	3
34	The Singular Function Boundary Integral Method for Laplacian problems with boundary singularities in two and three-dimensions. <i>Procedia Computer Science</i> , 2010, 1, 2589-2597.	2.0	3
35	The Singular Function Boundary Integral Method for singular Laplacian problems over circular sections. <i>Applied Mathematics and Computation</i> , 2010, 217, 2773-2787.	2.2	3
36	A Short Note on the Connection Between Layer-Adapted Exponentially Graded and S-Type Meshes. <i>Computational Methods in Applied Mathematics</i> , 2018, 18, 199-202.	0.8	3

#	ARTICLE	IF	CITATIONS
37	Finite element methods for a singularly perturbed transmission problem. Journal of Numerical Mathematics, 2009, 17, .	3.5	2
38	A mixed hp FEM for the approximation of fourth-order singularly perturbed problems on smooth domains. Numerical Methods for Partial Differential Equations, 2019, 35, 114-127.	3.6	2
39	Convergence analysis of an <i>hp</i> finite element method for singularly perturbed transmission problems in smooth domains. Numerical Methods for Partial Differential Equations, 2013, 29, 2107-2132.	3.6	1
40	Isogeometric analysis for singularly perturbed high-order, two-point boundary value problems of reaction-diffusion type. Computers and Mathematics With Applications, 2020, 80, 2340-2350.	2.7	1
41	The singular function boundary integral method for a 3-D Laplacian problem with an edge singularity. WIT Transactions on State-of-the-art in Science and Engineering, 2010, , 31-41.	0.0	1
42	On the Finite Element Approximation of Fourth-Order Singularly Perturbed Eigenvalue Problems. Computational Methods in Applied Mathematics, 2022, .	0.8	1
43	Mixed <i>hp</i> finite element method for singularly perturbed fourth order boundary value problems with two small parameters. Numerical Methods for Partial Differential Equations, 0, , .	3.6	1
44	A note on <i>hp</i> finite element methods for reaction-diffusion problems in polygonal domains. Communications in Numerical Methods in Engineering, 2000, 16, 391-400.	1.3	0
45	The Use of Curved Elements in the Finite Element Approximation of Thin Plates by High Order <i>p</i> and <i>hp</i> Methods. Journal of Scientific Computing, 2006, 27, 465-476.	2.3	0
46	A singular function boundary integral method for elliptic problems with singularities. Proceedings in Applied Mathematics and Mechanics, 2007, 7, 2020129-2020130.	0.2	0
47	The Singular Function Boundary Integral Method for Elliptic Problems with Boundary Singularities. , 2009, , 43-56.		0
48	<i>hp</i> Finite Element Methods for Fourth Order Singularly Perturbed Boundary Value Problems. Lecture Notes in Computer Science, 2013, , 532-539.	1.3	0
49	Linear Time Independent Reaction Diffusion Equations: Computation. , 2015, , 809-811.		0