

Christos Xenophontos

List of Publications by Year in descending order

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| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | On the Finite Element Approximation of Fourth-Order Singularly Perturbed Eigenvalue Problems. Computational Methods in Applied Mathematics, 2022, . | 0.8 | 1 |
| 2 | 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 |
| 3 | 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 |
| 4 | A Short Note on the Connection Between Layer-Adapted Exponentially Graded and S-Type Meshes. Computational Methods in Applied Mathematics, 2018, 18, 199-202. | 0.8 | 3 |
| 5 | Finite element approximation of reaction-diffusion problems using an exponentially graded mesh. Computers and Mathematics With Applications, 2018, 76, 2523-2534. | 2.7 | 9 |
| 6 | A Parameter Robust Finite Element Method for Fourth Order Singularly Perturbed Problems. Computational Methods in Applied Mathematics, 2017, 17, 337-349. | 0.8 | 5 |
| 7 | An $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si4.gif" display="inline" overflow="scroll" \rangle \langle \text{mml:mi} \rangle \text{h} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \text{p} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ finite element method for a 4th order singularly perturbed boundary value problem in two dimensions. Computers and Mathematics With Applications, 2017, 74, 1565-1575. | 2.7 | 4 |
| 8 | Finite element approximation of convection-diffusion problems using an exponentially graded mesh. Computers and Mathematics With Applications, 2016, 72, 1532-1540. | 2.7 | 15 |
| 9 | A C 1 -conforming hp finite element method for fourth order singularly perturbed boundary value problems. Applied Numerical Mathematics, 2016, 104, 81-97. | 2.1 | 13 |
| 10 | An hp finite element method for 4th order singularly perturbed problems. Numerical Algorithms, 2016, 73, 567-590. | 1.9 | 9 |
| 11 | Robust exponential convergence of $\$ \$ h_p \$ \$$ h p -FEM in balanced norms for singularly perturbed reaction-diffusion equations. Calcolo, 2016, 53, 105-132. | 1.1 | 30 |
| 12 | Finite Element Analysis of an Exponentially Graded Mesh for Singularly Perturbed Problems. Computational Methods in Applied Mathematics, 2015, 15, 135-143. | 0.8 | 25 |
| 13 | Linear Time Independent Reaction Diffusion Equations: Computation. , 2015, , 809-811. | | 0 |
| 14 | Analytic regularity for a singularly perturbed system of reaction-diffusion equations with multiple scales. Advances in Computational Mathematics, 2013, 39, 367-394. | 1.6 | 7 |
| 15 | Robust exponential convergence of hp FEM for singularly perturbed reaction-diffusion systems with multiple scales. IMA Journal of Numerical Analysis, 2013, 33, 609-628. | 2.9 | 18 |
| 16 | Robust Approximation of Singularly Perturbed Delay Differential Equations by the $\langle i \rangle \text{hp} \langle /i \rangle$ Finite Element Method. Computational Methods in Applied Mathematics, 2013, 13, 21-37. | 0.8 | 33 |
| 17 | Convergence analysis of an $\langle i \rangle \text{hp} \langle /i \rangle$ finite element method for singularly perturbed transmission problems in smooth domains. Numerical Methods for Partial Differential Equations, 2013, 29, 2107-2132. | 3.6 | 1 |
| 18 | hp Finite Element Methods for Fourth Order Singularly Perturbed Boundary Value Problems. Lecture Notes in Computer Science, 2013, , 532-539. | 1.3 | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | 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 |
| 22 | 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 |
| 23 | 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 |
| 24 | The singular function boundary integral method for a 3-D Laplacian problem with an edge singularity. <i>WIT Transactions on State-of-the-art in Science and Engineering</i> , 2010, , 31-41. | 0.0 | 1 |
| 25 | Finite element methods for a singularly perturbed transmission problem. <i>Journal of Numerical Mathematics</i> , 2009, 17, . | 3.5 | 2 |
| 26 | The Singular Function Boundary Integral Method for Elliptic Problems with Boundary Singularities. , 2009, , 43-56. | | 0 |
| 27 | 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 |
| 28 | Cessation of annular Poiseuille flows of Bingham plastics. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2007, 142, 135-142. | 2.4 | 19 |
| 29 | An hp-finite element method for singularly perturbed systems of reaction-diffusion equations. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2007, 7, 2020055-2020056. | 0.2 | 3 |
| 30 | A singular function boundary integral method for elliptic problems with singularities. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2007, 7, 2020129-2020130. | 0.2 | 0 |
| 31 | 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 |
| 32 | 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 |
| 33 | 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 |
| 34 | 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 |
| 35 | 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 |
| 36 | The Use of Curved Elements in the Finite Element Approximation of Thin Plates by High Order p and hp Methods. <i>Journal of Scientific Computing</i> , 2006, 27, 465-476. | 2.3 | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Solving Laplacian problems with boundary singularities: a comparison of a singular function boundary integral method with the p/hp version of the finite element method. Applied Mathematics and Computation, 2005, 169, 485-499. | 2.2 | 23 |
| 38 | Solution of the planar Newtonian stick-slip problem with the singular function boundary integral method. International Journal for Numerical Methods in Fluids, 2005, 48, 1001-1021. | 1.6 | 24 |
| 39 | An analytical method for linear elliptic PDEs and its numerical implementation. Journal of Computational and Applied Mathematics, 2004, 167, 465-483. | 2.0 | 41 |
| 40 | Uniform approximation of singularly perturbed reaction-diffusion problems by the finite element method on a Shishkin mesh. Numerical Methods for Partial Differential Equations, 2003, 19, 89-111. | 3.6 | 15 |
| 41 | A note on the convergence rate of the finite element method for singularly perturbed problems using the Shishkin mesh. Applied Mathematics and Computation, 2003, 142, 545-559. | 2.2 | 4 |
| 42 | On the effects of using curved elements in the approximation of the Reissner-Mindlin plate by the p version of the finite element method. Applied Numerical Mathematics, 2003, 46, 231-246. | 2.1 | 3 |
| 43 | Optimal mesh design for the finite element approximation of reaction-diffusion problems. International Journal for Numerical Methods in Engineering, 2002, 53, 929-943. | 2.8 | 22 |
| 44 | The solution of Laplacian problems over L-shaped domains with a singular function boundary integral method. Communications in Numerical Methods in Engineering, 2002, 18, 213-222. | 1.3 | 33 |
| 45 | A note on p/hp finite element methods for reaction-diffusion problems in polygonal domains. Communications in Numerical Methods in Engineering, 2000, 16, 391-400. | 1.3 | 0 |
| 46 | The hp finite element method for singularly perturbed problems in nonsmooth domains. Numerical Methods for Partial Differential Equations, 1999, 15, 63-89. | 3.6 | 17 |
| 47 | Application of the p-version of the finite element method to elastoplasticity with localization of deformation. Communications in Numerical Methods in Engineering, 1999, 15, 867-876. | 1.3 | 16 |
| 48 | The hp finite element method for problems in mechanics with boundary layers. Computer Methods in Applied Mechanics and Engineering, 1998, 157, 311-333. | 6.6 | 59 |
| 49 | Mixed hp 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 |