Mahboub Baccouch

List of Publications by Year in descending order

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687363 713466 55 589 13 21 citations h-index g-index papers 56 56 56 150 docs citations times ranked citing authors all docs

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | A local discontinuous Galerkin method for the second-order wave equation. Computer Methods in Applied Mechanics and Engineering, 2012, 209-212, 129-143. | 6.6 | 50 |
| 2 | The Discontinuous Galerkin Method for Two-Dimensional Hyperbolic Problems. Part I: Superconvergence Error Analysis. Journal of Scientific Computing, 2007, 33, 75-113. | 2.3 | 44 |
| 3 | Asymptotically exact a posteriori error estimates for a one-dimensional linear hyperbolic problem. Applied Numerical Mathematics, 2010, 60, 903-914. | 2.1 | 41 |
| 4 | The Discontinuous Galerkin Method forÂTwo-dimensional Hyperbolic Problems Part II: AÂPosteriori Error Estimation. Journal of Scientific Computing, 2009, 38, 15-49. | 2.3 | 40 |
| 5 | A Superconvergent Local Discontinuous Galerkin Method for Elliptic Problems. Journal of Scientific Computing, 2012, 52, 113-152. | 2.3 | 30 |
| 6 | Discontinuous Galerkin error estimation for hyperbolic problems on unstructured triangular meshes. Computer Methods in Applied Mechanics and Engineering, 2011, 200, 162-177. | 6.6 | 29 |
| 7 | A superconvergent local discontinuous Galerkin method for the second-order wave equation on Cartesian grids. Computers and Mathematics With Applications, 2014, 68, 1250-1278. | 2.7 | 26 |
| 8 | Analysis of a posteriori error estimates of the discontinuous Galerkin method for nonlinear ordinary differential equations. Applied Numerical Mathematics, 2016, 106, 129-153. | 2.1 | 21 |
| 9 | Asymptotically exact a posteriori LDG error estimates for one-dimensional transient convection–diffusion problems. Applied Mathematics and Computation, 2014, 226, 455-483. | 2.2 | 20 |
| 10 | The Local Discontinuous Galerkin Method for the Fourth-Order Euler–Bernoulli Partial Differential Equation in One Space Dimension. Part I: Superconvergence Error Analysis. Journal of Scientific Computing, 2014, 59, 795-840. | 2.3 | 20 |
| 11 | The Local Discontinuous Galerkin Method for the Fourth-Order Euler–Bernoulli Partial Differential Equation in One Space Dimension. Part II: A Posteriori Error Estimation. Journal of Scientific Computing, 2014, 60, 1-34. | 2.3 | 18 |
| 12 | A high-order space–time ultra-weak discontinuous Galerkin method for the second-order wave equation in one space dimension. Journal of Computational and Applied Mathematics, 2021, 389, 113331. | 2.0 | 15 |
| 13 | Superconvergence of the local discontinuous galerkin method applied to the oneâ€dimensional secondâ€order wave equation. Numerical Methods for Partial Differential Equations, 2014, 30, 862-901. | 3.6 | 14 |
| 14 | A posteriori error estimates for a discontinuous Galerkin method applied to one-dimensional nonlinear scalar conservation laws. Applied Numerical Mathematics, 2014, 84, 1-21. | 2.1 | 14 |
| 15 | A Posteriori Local Discontinuous Galerkin Error Estimation for Two-Dimensional Convection–Diffusion Problems. Journal of Scientific Computing, 2015, 62, 399-430. | 2.3 | 14 |
| 16 | Superconvergence and a posteriori error estimates for the LDG method for convection–diffusion problems in one space dimension. Computers and Mathematics With Applications, 2014, 67, 1130-1153. | 2.7 | 13 |
| 17 | Superconvergence of the discontinuous Galerkin method for nonlinear second-order initial-value problems for ordinary differential equations. Applied Numerical Mathematics, 2017, 115, 160-179. | 2.1 | 11 |
| 18 | A high-order discontinuous Galerkin method for Itô stochastic ordinary differential equations. Journal of Computational and Applied Mathematics, 2016, 308, 138-165. | 2.0 | 10 |

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| 19 | Asymptotically exact a posteriori local discontinuous Galerkin error estimates for the one-dimensional second-order wave equation. Numerical Methods for Partial Differential Equations, 2015, 31, 1461-1491. | 3.6 | 9 |
| 20 | Optimal energy-conserving local discontinuous Galerkin method for the one-dimensional sine-Gordon equation. International Journal of Computer Mathematics, 2017, 94, 316-344. | 1.8 | 9 |
| 21 | A superconvergent local discontinuous Galerkin method for nonlinear two-point boundary-value problems. Numerical Algorithms, 2018, 79, 697-718. | 1.9 | 9 |
| 22 | An iterative finite difference method for approximating the two-branched solution of Bratu's problem. Applied Numerical Mathematics, 2019, 139, 62-76. | 2.1 | 9 |
| 23 | Superconvergence of the local discontinuous Galerkin method for the sine-Gordon equation on Cartesian grids. Applied Numerical Mathematics, 2017, 113, 124-155. | 2.1 | 8 |
| 24 | Superconvergence of the local discontinuous Galerkin method for the sine-Gordon equation in one space dimension. Journal of Computational and Applied Mathematics, 2018, 333, 292-313. | 2.0 | 8 |
| 25 | A Posteriori Error Analysis of the Discontinuous Galerkin Method for Two-Dimensional Linear Hyperbolic Conservation Laws on Cartesian Grids. Journal of Scientific Computing, 2016, 68, 945-974. | 2.3 | 7 |
| 26 | A posteriori error estimates and adaptivity for the discontinuous Galerkin solutions of nonlinear second-order initial-value problems. Applied Numerical Mathematics, 2017, 121, 18-37. | 2.1 | 7 |
| 27 | Superconvergence and a posteriori error estimates of the DG method for scalar hyperbolic problems on Cartesian grids. Applied Mathematics and Computation, 2015, 265, 144-162. | 2,2 | 6 |
| 28 | A posteriori error estimator based on derivative recovery for the discontinuous Galerkin method for nonlinear hyperbolic conservation laws on Cartesian grids. Numerical Methods for Partial Differential Equations, 2017, 33, 1224-1265. | 3.6 | 6 |
| 29 | A Superconvergent Local Discontinuous Galerkin Method for Nonlinear Fourth-Order Boundary-Value Problems. International Journal of Computational Methods, 2020, 17, 1950035. | 1.3 | 6 |
| 30 | A discontinuous Galerkin method for systems of stochastic differential equations with applications to population biology, finance, and physics. Journal of Computational and Applied Mathematics, 2021, 388, 113297. | 2.0 | 6 |
| 31 | A Recovery-Based Error Estimator for the Discontinuous Galerkin Method for Transient Linear Hyperbolic Conservation Laws on Cartesian Grids. International Journal of Computational Methods, 2017, 14, 1750062. | 1.3 | 5 |
| 32 | Analysis of optimal superconvergence of a local discontinuous Galerkin method for nonlinear second-order two-point boundary-value problems. Applied Numerical Mathematics, 2019, 145, 361-383. | 2.1 | 5 |
| 33 | Efficient Chebyshev Pseudospectral Methods for Viscous Burgers' Equations in One and Two Space Dimensions. International Journal of Applied and Computational Mathematics, 2019, 5, 1. | 1.6 | 5 |
| 34 | A two-branched numerical solution of the two-dimensional Bratu's problem. Applied Numerical Mathematics, 2020, 153, 202-216. | 2.1 | 5 |
| 35 | Optimal a Posteriori Error Estimates of the Local Discontinuous Galerkin Method for Convection-Diffusion Problems in One Space Dimension. Journal of Computational Mathematics, 2016, 34, 511-531. | 0.4 | 5 |
| 36 | Recovery-Based Error Estimator for the Discontinuous Galerkin Method for Nonlinear Scalar Conservation Laws in One Space Dimension. Journal of Scientific Computing, 2016, 66, 459-476. | 2.3 | 4 |

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|----|--|-----|-----------|
| 37 | A Family of High Order Numerical Methods for Solving Nonlinear Algebraic Equations with Simple and Multiple Roots. International Journal of Applied and Computational Mathematics, 2017, 3, 1119-1133. | 1.6 | 4 |
| 38 | A posteriori local discontinuous Galerkin error estimates for the one-dimensional sine-Gordon equation. International Journal of Computer Mathematics, 2018, 95, 815-844. | 1.8 | 4 |
| 39 | Optimal error estimates and superconvergence of an ultra weak discontinuous Galerkin method for fourth-order boundary-value problems. Applied Numerical Mathematics, 2019, 137, 91-115. | 2.1 | 4 |
| 40 | Asymptotically Exact Posteriori Error Estimates for the Local Discontinuous Galerkin Method Applied to Nonlinear Convection–Diffusion Problems. Journal of Scientific Computing, 2018, 76, 1868-1904. | 2.3 | 3 |
| 41 | An adaptive local discontinuous Galerkin method for nonlinear two-point boundary-value problems. Numerical Algorithms, 2020, 84, 1121-1153. | 1.9 | 3 |
| 42 | Analysis of optimal superconvergence of the local discontinuous Galerkin method for nonlinear fourth-order boundary value problems. Numerical Algorithms, 2021, 86, 1615-1650. | 1.9 | 3 |
| 43 | Optimal superconvergence and asymptotically exact a posteriori error estimator for the local discontinuous Galerkin method for linear elliptic problems on Cartesian grids. Applied Numerical Mathematics, 2021, 162, 201-224. | 2.1 | 3 |
| 44 | A stochastic local discontinuous Galerkin method for stochastic two-point boundary-value problems driven by additive noises. Applied Numerical Mathematics, 2018, 128, 43-64. | 2.1 | 2 |
| 45 | A Family of High Order Derivative-Free Iterative Methods for Solving Root-Finding Problems. International Journal of Applied and Computational Mathematics, 2019, 5, 1. | 1.6 | 2 |
| 46 | The discontinuous Galerkin method for stochastic differential equations driven by additive noises. Applied Numerical Mathematics, 2020, 152, 285-309. | 2.1 | 2 |
| 47 | Superconvergence of the semi-discrete local discontinuous Galerkin method for nonlinear KdV-type problems. Discrete and Continuous Dynamical Systems - Series B, 2019, 24, 19-54. | 0.9 | 2 |
| 48 | The Discontinuous Galerkin Finite Element Method for Ordinary Differential Equations. , 0, , . | | 1 |
| 49 | Optimal error estimates of the local discontinuous Galerkin method for nonlinear secondâ€order elliptic problems on Cartesian grids. Numerical Methods for Partial Differential Equations, 2021, 37, 505-532. | 3.6 | 1 |
| 50 | A posteriori error analysis of the local discontinuous Galerkin method for the sine–Gordon equation in one space dimension. Journal of Computational and Applied Mathematics, 2020, 366, 112432. | 2.0 | 0 |
| 51 | A Brief Summary of the Finite Element Method for Differential Equations. , 0, , . | | 0 |
| 52 | The discontinuous Galerkin method for general nonlinear third-order ordinary differential equations. Applied Numerical Mathematics, 2021, 162, 331-350. | 2.1 | 0 |
| 53 | Two Efficient and Reliable a posteriori Error Estimates for the Local Discontinuous Galerkin Method Applied to Linear Elliptic Problems on Cartesian Grids. Journal of Scientific Computing, 2021, 87, 1. | 2.3 | 0 |
| 54 | Convergence and Superconvergence of the Local Discontinuous Galerkin Method for Semilinear Second-Order Elliptic Problems on Cartesian Grids. Communications on Applied Mathematics and Computation, 0, , 1. | 1.7 | O |

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|----|---|-----|-----------|
| 55 | Galerkin methods. Scholarpedia Journal, 2010, 5, 10056. | 0.3 | O |