## RungeKutta Discontinuous Galerkin Methods for Convection-Dominated Problems

| # | Paper | IF | Citations |
|---|-------|----|-----------|
| 1270 | A Local Discontinuous Galerkin Method for KdV Type Equations. **2002**, 40, 769-791 | | 214 |
| 1269 | Mixedhp-DGFEM for Incompressible Flows. **2002**, 40, 2171-2194 | | 99 |
| 1268 | Nodal High-Order Discontinuous Galerkin Methods for the Spherical Shallow Water Equations. *Journal of Computational Physics*, **2002**, 181, 499-525 | 4.1 | 178 |
| 1267 | High-order Finite Difference and Finite Volume WENO Schemes and Discontinuous Galerkin Methods for CFD. **2003**, 17, 107-118 | | 232 |
| 1266 | Exponential convergence of mixed hp-DGFEM for Stokes flow in polygons. **2003**, 96, 339-361 | | 25 |
| 1265 | An adaptive mesh redistribution method for nonlinear Hamilton⬚Jacobi equations in two- and three-dimensions. *Journal of Computational Physics*, **2003**, 188, 543-572 | 4.1 | 45 |
| 1264 | High-order accurate methods in time-domain computational electromagnetics: A review. **2003**, 59-123 | | 70 |
| 1263 | Stabilized hp-DGFEM for Incompressible Flow. **2003**, 13, 1413-1436 | | 19 |
| 1262 | AN ANALYSIS OF THREE DIFFERENT FORMULATIONS OF THE DISCONTINUOUS GALERKIN METHOD FOR DIFFUSION EQUATIONS. **2003**, 13, 395-413 | | 77 |
| 1261 | Rendering planar cuts through quadratic and cubic finite elements. | | 7 |
| 1260 | High-order nodal discontinuous Galerkin methods for the Maxwell eigenvalue problem. **2004**, 362, 493-524 | | 80 |
| 1259 | Hermite WENO schemes and their application as limiters for Runge⬚Kutta discontinuous Galerkin method: one-dimensional case. *Journal of Computational Physics*, **2004**, 193, 115-135 | 4.1 | 237 |
| 1258 | Locally divergence-free discontinuous Galerkin methods for the Maxwell equations. *Journal of Computational Physics*, **2004**, 194, 588-610 | 4.1 | 201 |
| 1257 | Local discontinuous Galerkin methods for nonlinear dispersive equations. *Journal of Computational Physics*, **2004**, 196, 751-772 | 4.1 | 97 |
| 1256 | Finite-volume WENO schemes for three-dimensional conservation laws. *Journal of Computational Physics*, **2004**, 201, 238-260 | 4.1 | 228 |
| 1255 | Local discontinuous Galerkin methods for moment models in device simulations: formulation and one dimensional results. **2004**, | | |
| 1254 | Adaptive Precision Methodology for Flow Optimization via Discretization and Iteration Error Control. **2004**, | | 6 |

| | | | |
|---|---|---|---|
| 1235 | A dynamic p-adaptive Discontinuous Galerkin method for viscous flow with shocks. **2005**, 34, 401-417 | | 19 |
| 1234 | Hermite WENO schemes and their application as limiters for Runge Kutta discontinuous Galerkin method II: Two dimensional case. **2005**, 34, 642-663 | | 170 |
| 1233 | ADER schemes for scalar non-linear hyperbolic conservation laws with source terms in three-space dimensions. *Journal of Computational Physics*, **2005**, 202, 196-215 | 4.1 | 73 |
| 1232 | Local discontinuous Galerkin methods for nonlinear Schrödinger equations. *Journal of Computational Physics*, **2005**, 205, 72-97 | 4.1 | 167 |
| 1231 | p-Multigrid solution of high-order discontinuous Galerkin discretizations of the compressible Navier Stokes equations. *Journal of Computational Physics*, **2005**, 207, 92-113 | 4.1 | 230 |
| 1230 | Discontinuous Galerkin Spectral/hp Element Modelling of Dispersive Shallow Water Systems. *Journal of Scientific Computing*, **2005**, 22-23, 269-288 | 2.3 | 24 |
| 1229 | Locally Divergence-Free Discontinuous Galerkin Methods for MHD Equations. *Journal of Scientific Computing*, **2005**, 22-23, 413-442 | 2.3 | 84 |
| 1228 | High-order RKDG Methods for Computational Electromagnetics. *Journal of Scientific Computing*, **2005**, 22-23, 205-226 | 2.3 | 56 |
| 1227 | A Discontinuous Galerkin Global Shallow Water Model. **2005**, 133, 876-888 | | 135 |
| 1226 | Extension of a Post Processing Technique for the Discontinuous Galerkin Method for Hyperbolic Equations with Application to an Aeroacoustic Problem. **2005**, 26, 821-843 | | 53 |
| 1225 | Towards an efficient and scalable discontinuous Galerkin atmospheric model. | | 2 |
| 1224 | The Heterogeneous Multiscale Method Based on the Discontinuous Galerkin Method for Hyperbolic and Parabolic Problems. **2005**, 3, 871-894 | | 16 |
| 1223 | Runge--Kutta Discontinuous Galerkin Method Using WENO Limiters. **2005**, 26, 907-929 | | 244 |
| 1222 | Discontinuous-Galerkin Discretizations for Viscous Flow Problems in Complex Domains. **2005**, | | 6 |
| 1221 | Efficient Discontinuous Galerkin Methods for solving acoustic problems. **2005**, | | 23 |
| 1220 | Model Reduction for Large-Scale CFD Applications Using Balanced Proper Orthogonal Decomposition. **2005**, | | 9 |
| 1219 | Discontinuous Galerkin Implementation of the Extended Helmholtz Resonator Model in Time Domain. **2006**, | | 15 |
| 1218 | Error Estimates to Smooth Solutions of Runge Kutta Discontinuous Galerkin Method for Symmetrizable Systems of Conservation Laws. **2006**, 44, 1703-1720 | | 42 |

| | | | |
|---|---|---|---|
| 1217 | Discontinuous Galerkin Methods Using an hp-Multigrid Solver for Inviscid Compressible Flows on Three-dimensional Unstructured Meshes. **2006**, | | 7 |
| 1216 | Implicit Solution of the Unsteady Euler Equations for High-Order Accurate Discontinuous Galerkin Discretizations. **2006**, | | 7 |
| 1215 | Sub-Cell Shock Capturing for Discontinuous Galerkin Methods. **2006**, | | 220 |
| 1214 | An Efficient Low Memory Implicit DG Algorithm for Time Dependent Problems. **2006**, | | 15 |
| 1213 | An unstructured grid morphodynamic model with a discontinuous Galerkin method for bed evolution. **2006**, 15, 71-89 | | 37 |
| 1212 | A one-dimensional benchmark for the propagation of Poincar waves. **2006**, 15, 101-123 | | 6 |
| 1211 | Compositional Modeling of Discrete-Fractured Media Without Transfer Functions by the Discontinuous Galerkin and Mixed Methods. **2006**, 11, 341-352 | | 62 |
| 1210 | Symplectic local time-stepping in non-dissipative DGTD methods applied to wave propagation problems. **2006**, 40, 815-841 | | 69 |
| 1209 | A vector Hamilton Jacobi formulation for the numerical simulation of Euler flows. **2006**, 342, 151-156 | | 1 |
| 1208 | An hp-adaptive mixed discontinuous Galerkin FEM for nearly incompressible linear elasticity. *Computer Methods in Applied Mechanics and Engineering*, **2006**, 195, 3224-3246 | 5.7 | 37 |
| 1207 | A level set discontinuous Galerkin method for free surface flows. *Computer Methods in Applied Mechanics and Engineering*, **2006**, 195, 3406-3429 | 5.7 | 34 |
| 1206 | Local discontinuous Galerkin methods for the Kuramoto Sivashinsky equations and the Ito-type coupled KdV equations. *Computer Methods in Applied Mechanics and Engineering*, **2006**, 195, 3430-3447 | 5.7 | 80 |
| 1205 | hp Discontinuous Galerkin methods for advection dominated problems in shallow water flow. *Computer Methods in Applied Mechanics and Engineering*, **2006**, 196, 437-451 | 5.7 | 103 |
| 1204 | An unstructured spectral/hp element model for enhanced Boussinesq-type equations. **2006**, 53, 947-963 | | 17 |
| 1203 | Space Time discontinuous Galerkin method for advection diffusion problems on time-dependent domains. **2006**, 56, 1491-1518 | | 51 |
| 1202 | Mass preserving finite element implementations of the level set method. **2006**, 56, 1179-1195 | | 40 |
| 1201 | Derivative Riemann solvers for systems of conservation laws and ADER methods. *Journal of Computational Physics*, **2006**, 212, 150-165 | 4.1 | 130 |
| 1200 | A quadrature-free discontinuous Galerkin method for the level set equation. *Journal of Computational Physics*, **2006**, 212, 338-357 | 4.1 | 66 |

| | | | |
|---|---|---|---|
| 1199 | A numerical study for the performance of the Runge–Kutta discontinuous Galerkin method based on different numerical fluxes. *Journal of Computational Physics*, **2006**, 212, 540-565 | 4.1 | 81 |
| 1198 | Spectral/hp discontinuous Galerkin methods for modelling 2D Boussinesq equations. *Journal of Computational Physics*, **2006**, 212, 566-589 | 4.1 | 39 |
| 1197 | High-order discontinuous Galerkin methods using an hp-multigrid approach. *Journal of Computational Physics*, **2006**, 213, 330-357 | 4.1 | 117 |
| 1196 | High order well-balanced finite volume WENO schemes and discontinuous Galerkin methods for a class of hyperbolic systems with source terms. *Journal of Computational Physics*, **2006**, 214, 567-598 | 4.1 | 155 |
| 1195 | A local discontinuous Galerkin method for the Korteweg–de Vries equation with boundary effect. *Journal of Computational Physics*, **2006**, 215, 197-218 | 4.1 | 36 |
| 1194 | An adaptive coupled level-set/volume-of-fluid interface capturing method for unstructured triangular grids. *Journal of Computational Physics*, **2006**, 217, 364-394 | 4.1 | 111 |
| 1193 | Space–Time discontinuous Galerkin method for the compressible Navier–Stokes equations. *Journal of Computational Physics*, **2006**, 217, 589-611 | 4.1 | 152 |
| 1192 | Pseudo-time stepping methods for space–Time discontinuous Galerkin discretizations of the compressible Navier–Stokes equations. *Journal of Computational Physics*, **2006**, 219, 622-643 | 4.1 | 29 |
| 1191 | Discontinuous Galerkin Finite Element Method for the Wave Equation. **2006**, 44, 2408-2431 | | 184 |
| 1190 | Discontinuous Galerkin method based on non-polynomial approximation spaces. *Journal of Computational Physics*, **2006**, 218, 295-323 | 4.1 | 42 |
| 1189 | Moving Mesh Discontinuous Galerkin Method for Hyperbolic Conservation Laws. *Journal of Scientific Computing*, **2006**, 27, 347-363 | 2.3 | 17 |
| 1188 | One-sided Post-processing for the Discontinuous Galerkin Method Using ENO Type Stencil Choosing and the Local Edge Detection Method. *Journal of Scientific Computing*, **2006**, 28, 167-190 | 2.3 | 5 |
| 1187 | Advection approaches for single- and multi-material arbitrary Lagrangian–Eulerian finite element procedures. **2006**, 39, 153-190 | | 14 |
| 1186 | . **2006**, 54, 3316-3326 | | 6 |
| 1185 | Phase reconstruction by the weighted least action principle. **2006**, 8, 279-289 | | 4 |
| 1184 | Accurate modelling of charged particle beams in linear accelerators. **2006**, 8, 285-285 | | 20 |
| 1183 | ENERGY NORM A POSTERIORI ERROR ESTIMATION OF hp-ADAPTIVE DISCONTINUOUS GALERKIN METHODS FOR ELLIPTIC PROBLEMS. **2007**, 17, 33-62 | | 107 |
| 1182 | hpGEM---A software framework for discontinuous Galerkin finite element methods. **2007**, 33, 23 | | 20 |

| | | | |
|---|---|---|---|
| 1181 | Gyrokinetic modeling: A multi-water-bag approach. **2007**, 14, 112109 | | 24 |
| 1180 | Error Control for a Class of Runge–Kutta Discontinuous Galerkin Methods for Nonlinear Conservation Laws. **2007**, 45, 514-538 | | 24 |
| 1179 | Parametric Reduced-Order Models for Probabilistic Analysis of Unsteady Aerodynamic Applications. **2007**, | | 1 |
| 1178 | Shock Capturing with Higher-Order, PDE-Based Artificial Viscosity. **2007**, | | 45 |
| 1177 | An Unsteady Adaptation Algorithm for Discontinuous Galerkin Discretizations of the RANS Equations. **2007**, | | 16 |
| 1176 | Discontinuous Galerkin Solutions of the Navier-Stokes Equations Using Linear Multigrid Preconditioning. **2007**, | | 2 |
| 1175 | Application of the p-Multigrid Algorithm to Discontinuous Galerkin Formulations of the Compressible Euler Equation. **2007**, | | 3 |
| 1174 | An Analysis of the Upwind Moment Scheme and Its Extension to Systems of Nonlinear Hyperbolic-Relaxation Equations. **2007**, | | 1 |
| 1173 | A Parallel hp-Multigrid Solver for Three-Dimensional Discontinuous Galerkin Discretizations of the Euler Equations. **2007**, | | 17 |
| 1172 | Discontinuous Galerkin Solution of the Navier-Stokes Equations on Deformable Domains. **2007**, | | 7 |
| 1171 | The embedded discontinuous Galerkin method: application to linear shell problems. **2007**, 70, 757-790 | | 47 |
| 1170 | A discontinuous Galerkin method for a hyperbolic model for convection–diffusion problems in CFD. **2007**, 71, 1342-1364 | | 19 |
| 1169 | Error estimates of the semi-discrete local discontinuous Galerkin method for nonlinear convection–diffusion and KdV equations. *Computer Methods in Applied Mechanics and Engineering*, **2007**, 196, 3805-3822 | 5.7 | 70 |
| 1168 | Finite volume solvers and Moving Least-Squares approximations for the compressible Navier–Stokes equations on unstructured grids. *Computer Methods in Applied Mechanics and Engineering*, **2007**, 196, 4712-4736 | 5.7 | 62 |
| 1167 | Ĥmapping algorithm coupled with WENO reconstruction for nonlinear elasticity in heterogeneous media. **2007**, 57, 103-116 | | 6 |
| 1166 | Local discontinuous Galerkin methods for moment models in device simulations: Performance assessment and two-dimensional results. **2007**, 57, 629-645 | | 18 |
| 1165 | A high-order discontinuous Galerkin method for the unsteady incompressible Navier–Stokes equations. *Journal of Computational Physics*, **2007**, 222, 391-407 | 4.1 | 113 |
| 1164 | Semi discrete discontinuous Galerkin methods and stage-exceeding-order, strong-stability-preserving Runge–Kutta time discretizations. *Journal of Computational Physics*, **2007**, 222, 832-848 | 4.1 | 38 |

| | | | |
|---|---|---|---|
| 1163 | Optimal numerical parameterization of discontinuous Galerkin method applied to wave propagation problems. *Journal of Computational Physics*, **2007**, 223, 188-207 | 4.1 | 20 |
| 1162 | A Runge Kutta discontinuous Galerkin method for viscous flow equations. *Journal of Computational Physics*, **2007**, 224, 1223-1242 | 4.1 | 43 |
| 1161 | Space Time discontinuous Galerkin method for nonlinear water waves. *Journal of Computational Physics*, **2007**, 224, 17-39 | 4.1 | 14 |
| 1160 | A discontinuous Galerkin implementation of a domain decomposition method for kinetic-hydrodynamic coupling multiscale problems in gas dynamics and device simulations. *Journal of Computational Physics*, **2007**, 225, 1314-1330 | 4.1 | 12 |
| 1159 | Implicit solution of the unsteady Euler equations for high-order accurate discontinuous Galerkin discretizations. *Journal of Computational Physics*, **2007**, 225, 1994-2015 | 4.1 | 87 |
| 1158 | An adaptive high-order discontinuous Galerkin method with error control for the Hamilton Jacobi equations. Part I: The one-dimensional steady state case. *Journal of Computational Physics*, **2007**, 226, 1027-1058 | 4.1 | 3 |
| 1157 | High-order Galerkin methods for scalable global atmospheric models. **2007**, 33, 1022-1035 | | 31 |
| 1156 | A gas-kinetic discontinuous Galerkin method for viscous flow equations. **2007**, 21, 1344-1351 | | 2 |
| 1155 | Nodal DG-FEM solution of high-order Boussinesq-type equations. **2007**, 56, 351-370 | | 42 |
| 1154 | Dispersion and Dissipation Error in High-Order Runge-Kutta Discontinuous Galerkin Discretisations of the Maxwell Equations. *Journal of Scientific Computing*, **2007**, 33, 47-74 | 2.3 | 38 |
| 1153 | Minimal Stabilization for Discontinuous Galerkin Finite Element Methods for Hyperbolic Problems. *Journal of Scientific Computing*, **2007**, 33, 183-208 | 2.3 | 12 |
| 1152 | Local discontinuous Galerkin approximations to Richards equation. **2007**, 30, 555-575 | | 30 |
| 1151 | Adaptive local discontinuous Galerkin approximation to Richards equation. **2007**, 30, 1883-1901 | | 24 |
| 1150 | A spectral finite volume transport scheme on the cubed-sphere. **2007**, 57, 1021-1032 | | 16 |
| 1149 | Discontinuous Galerkin finite element methods for hyperbolic nonconservative partial differential equations. *Journal of Computational Physics*, **2008**, 227, 1887-1922 | 4.1 | 95 |
| 1148 | A study of spectral element and discontinuous Galerkin methods for the Navier Stokes equations in nonhydrostatic mesoscale atmospheric modeling: Equation sets and test cases. *Journal of Computational Physics*, **2008**, 227, 3849-3877 | 4.1 | 143 |
| 1147 | Runge Kutta discontinuous Galerkin method using WENO limiters II: Unstructured meshes. *Journal of Computational Physics*, **2008**, 227, 4330-4353 | 4.1 | 349 |
| 1146 | A DGBGK scheme based on WENO limiters for viscous and inviscid flows. *Journal of Computational Physics*, **2008**, 227, 5799-5815 | 4.1 | 10 |

| | | | |
|---|---|---|---|
| 1145 | A second order discontinuous Galerkin fast sweeping method for Eikonal equations. *Journal of Computational Physics*, **2008**, 227, 8191-8208 | 4.1 | 40 |
| 1144 | A unified framework for the construction of one-step finite volume and discontinuous Galerkin schemes on unstructured meshes. *Journal of Computational Physics*, **2008**, 227, 8209-8253 | 4.1 | 596 |
| 1143 | Superconvergence and time evolution of discontinuous Galerkin finite element solutions. *Journal of Computational Physics*, **2008**, 227, 9612-9627 | 4.1 | 46 |
| 1142 | A discontinuous Galerkin method for the shallow water equations in spherical triangular coordinates. *Journal of Computational Physics*, **2008**, 227, 10226-10242 | 4.1 | 41 |
| 1141 | Discontinuous Galerkin solver for Boltzmann-Poisson transients. **2008**, 7, 119-123 | | 16 |
| 1140 | A mathematical model and a numerical model for hyperbolic mass transport in compressible flows. **2008**, 45, 219-226 | | 18 |
| 1139 | High-order Finite Volume Methods and Multiresolution Reproducing Kernels. **2008**, 15, 185-228 | | 22 |
| 1138 | Meshless local discontinuous Petrov-Galerkin method with application to blasting problems. **2008**, 14, 376-383 | | 1 |
| 1137 | On discreteness of the Hopf equation. **2008**, 24, 423-440 | | 9 |
| 1136 | A multilevel method for discontinuous Galerkin approximation of three-dimensional anisotropic elliptic problems. **2008**, 15, 417-438 | | 16 |
| 1135 | An efficient discontinuous Galerkin method on triangular meshes for a pedestrian flow model. **2008**, 76, 337-350 | | 45 |
| 1134 | Diffuse interface method for simulation of the chemical vapor deposition of pyrolytic carbon: Aspects of the mathematical formulation. **2008**, 24, 2155-2193 | | 3 |
| 1133 | Application of a second-order Runge-Kutta discontinuous Galerkin scheme for the shallow water equations with source terms. **2008**, 56, 805-821 | | 27 |
| 1132 | A high-order triangular discontinuous Galerkin oceanic shallow water model. **2008**, 56, 899-925 | | 58 |
| 1131 | Discontinuous Galerkin method for a class of elliptic multi-scale problems. **2008**, 56, 1017-1032 | | 9 |
| 1130 | One-dimensional simulation of supercritical flow at a confluence by means of a nonlinear junction model applied with the RKDG2 method. **2008**, 57, 1695-1708 | | 8 |
| 1129 | A well-balanced Runge-Kutta discontinuous Galerkin method for the shallow-water equations with flooding and drying. **2008**, 58, 1-25 | | 88 |
| 1128 | High-order ?1 finite-element interpolating schemes Part II: Nonlinear semi-Lagrangian shallow-water models. **2008**, 57, 1629-1648 | | 1 |

| 1127 | Variance-reduced Monte Carlo solutions of the Boltzmann equation for low-speed gas flows: A discontinuous Galerkin formulation. **2008**, 58, 381-402 | | 20 |
|---|---|---|---|
| 1126 | Spectral element method in time for rapidly actuated systems. *Journal of Computational Physics*, **2008**, 227, 1809-1835 | 4.1 | 16 |
| 1125 | Time step restrictions for RungeKutta discontinuous Galerkin methods on triangular grids. *Journal of Computational Physics*, **2008**, 227, 9697-9710 | 4.1 | 48 |
| 1124 | A hybrid scheme for solving a multi-class traffic flow model with complex wave breaking. *Computer Methods in Applied Mechanics and Engineering*, **2008**, 197, 3816-3827 | 5.7 | 23 |
| 1123 | Simulation of bipolar charge transport with trapping and recombination in polymeric insulators using RungeKutta discontinuous Galerkin method. **2008**, 41, 195416 | | 20 |
| 1122 | On the Performance of the Quadrature-Free Discontinuous Galerkin Method on Hexahedral and Tetrahedral Grids for Linearized Euler Equations. **2008**, | | 6 |
| 1121 | Comparisons and Applications of Two Fluid Plasma Algorithms. **2008**, | | |
| 1120 | Multifidelity Approaches for the Computational Analysis and Design of Effective Flapping Wing Vehicles. **2008**, | | 12 |
| 1119 | On the Geometric Conservation Law for High-Order Discontinuous Galerkin Discretizations on Dynamically Deforming Meshes. **2008**, | | 7 |
| 1118 | Riemann Solvers with RungeKutta Discontinuous Galerkin Schemes for the 1D Shallow Water Equations. **2008**, 134, 243-255 | | 13 |
| 1117 | Stability Analysis of Solid Rocket Motor Combustion by Computational Fluid Dynamics. *AIAA Journal*, **2008**, 46, 947-957 | 2.1 | 8 |
| 1116 | Comparisons of Two-Fluid Plasma Models. **2008**, | | 1 |
| 1115 | Newton-GMRES Preconditioning for Discontinuous Galerkin Discretizations of the NavierStokes Equations. **2008**, 30, 2709-2733 | | 136 |
| 1114 | The Discontinuous Galerkin Method for the Multiscale Modeling of Dynamics of Crystalline Solids. **2008**, 7, 294-320 | | 7 |
| 1113 | Taming the CFL Number for Discontinuous Galerkin Methods on Structured Meshes. **2008**, 46, 3151-3180 | | 30 |
| 1112 | A Local Discontinuous Galerkin Method for the CamassaHolm Equation. **2008**, 46, 1998-2021 | | 99 |
| 1111 | Multilevel Preconditioning of Two-dimensional Elliptic Problems Discretized by a Class of Discontinuous Galerkin Methods. **2008**, 30, 684-706 | | 9 |
| 1110 | Error Estimates for the RungeKutta Discontinuous Galerkin Method for the Transport Equation with Discontinuous Initial Data. **2008**, 46, 1364-1398 | | 20 |

1109    The Compact Discontinuous Galerkin (CDG) Method for Elliptic Problems. **2008**, 30, 1806-1824      224

1108    Postprocessing for the Discontinuous Galerkin Method over Nonuniform Meshes. **2008**, 30, 272-289      30

1107    S-I-R Model with Directed Spatial Diffusion. **2008**, 15, 160-181      18

1106    Flow and Mold Filling Modeling and Simulation to Enhance Resin Transfer Molding Processes. **2008**, 130,      0

1105    Parametric Reduced-Order Models for Probabilistic Analysis of Unsteady Aerodynamic Applications. *AIAA Journal*, **2008**, 46, 2520-2529    2.1    100

1104    Weak turbulence theory and simulation of the gyro-water-bag model. *Physical Review E*, **2008**, 77, 056410    2.4    10

1103    Reduced basis method for finite volume approximations of parametrized linear evolution equations. **2008**, 42, 277-302      212

1102    L2stability analysis of the central discontinuous Galerkin method and a comparison between the central and regular discontinuous Galerkin methods. **2008**, 42, 593-607      56

1101    THE DEVELOPMENT OF HIGH PERFORMANCE NUMELICAL SIMULATION CODE FOR TRANSIENT GROUNDWATER FLOW AND REACTIVE SOLUTE TRANSPORT PROBLEMS BASED ON LOCAL DISCONTINUOUS GALERKIN MEHTOD. **2009**, 65, 703-715      1

1100    A Finite Element Model Based on Discontinuous Galerkin Methods on Moving Grids for Vertebrate Limb Pattern Formation. **2009**, 4, 131-148      7

1099    Dynamic continuum pedestrian flow model with memory effect. *Physical Review E*, **2009**, 79, 066113    2.4    65

1098    Application of p-Multigrid to Discontinuous Galerkin Formulations of the Euler Equations. *AIAA Journal*, **2009**, 47, 1200-1208    2.1    11

1097    Modeling Electron-Phonon Nonequilibrium in Gold Films Using Boltzmann Transport Model. **2009**, 131,      11

1096    A Comparative Study of Two-Temperature and Boltzmann Transport Models for Electron-Phonon Nonequilibrium. **2009**, 55, 611-633      12

1095    Diffusion Experiments with a Global Discontinuous Galerkin Shallow-Water Model. **2009**, 137, 3339-3350      25

1094    A review of a posteriori error control and adaptivity for approximations of non-linear conservation laws. **2009**, 59, 333-354      14

1093    A high-order element-based Galerkin method for the barotropic vorticity equation. **2009**, 59, 1369-1387      8

1092    A practical implementation of high-order RKDG models for the 1D open-channel flow equations. **2009**, 59, 1389-1409      7

| | | | |
|---|---|---|---|
| 1091 | Well-balancing issues related to the RKDG2 scheme for the shallow water equations. **2009**, 62, n/a-n/a | | 7 |
| 1090 | High-order semi-implicit time-integrators for a triangular discontinuous Galerkin oceanic shallow water model. **2009**, 63, n/a-n/a | | 4 |
| 1089 | A hybridizable discontinuous Galerkin method for linear elasticity. **2009**, 80, 1058-1092 | | 73 |
| 1088 | Non-linear model reduction for uncertainty quantification in large-scale inverse problems. **2009**, 81, n/a-n/a | | 14 |
| 1087 | Expression templates implementation of continuous and discontinuous Galerkin methods. **2009**, 12, 421-436 | | 5 |
| 1086 | A high order hybrid finite element method applied to the solution of electromagnetic wave scattering problems in the time domain. **2009**, 44, 321-331 | | 41 |
| 1085 | A flux-limiting wetting drying method for finite-element shallow-water models, with application to the Scheldt Estuary. **2009**, 32, 1726-1739 | | 36 |
| 1084 | A robust a-posteriori error estimator for discontinuous Galerkin methods for convection diffusion equations. **2009**, 59, 2236-2255 | | 49 |
| 1083 | Gyro-water-bag approach in nonlinear gyrokinetic turbulence. *Journal of Computational Physics*, **2009**, 228, 3973-3995 | 4.1 | 11 |
| 1082 | Preconditioning methods for discontinuous Galerkin solutions of the Navier Stokes equations. *Journal of Computational Physics*, **2009**, 228, 3917-3935 | 4.1 | 57 |
| 1081 | High-order discontinuous Galerkin schemes on general 2D manifolds applied to the shallow water equations. *Journal of Computational Physics*, **2009**, 228, 6514-6535 | 4.1 | 34 |
| 1080 | Compact Accurately Boundary-Adjusting high-REsolution Technique for fluid dynamics. *Journal of Computational Physics*, **2009**, 228, 7426-7451 | 4.1 | 96 |
| 1079 | Application of Discontinuous Galerkin Methods for Reaction-Diffusion Systems in Developmental Biology. *Journal of Scientific Computing*, **2009**, 40, 391-418 | 2.3 | 49 |
| 1078 | Numerical Simulation for Porous Medium Equation by Local Discontinuous Galerkin Finite Element Method. *Journal of Scientific Computing*, **2009**, 38, 127-148 | 2.3 | 39 |
| 1077 | One-Sided Smoothness-Increasing Accuracy-Conserving Filtering for Enhanced Streamline Integration through Discontinuous Fields. *Journal of Scientific Computing*, **2009**, 38, 164-184 | 2.3 | 24 |
| 1076 | The WKB Local Discontinuous Galerkin Method for the Simulation of Schr inger Equation in a Resonant Tunneling Diode. *Journal of Scientific Computing*, **2009**, 40, 360-374 | 2.3 | 14 |
| 1075 | Optimal Error Estimates for the Fully Discrete Interior Penalty DG Method for the Wave Equation. *Journal of Scientific Computing*, **2009**, 40, 257-272 | 2.3 | 57 |
| 1074 | Local Discontinuous Galerkin Method for Surface Diffusion and Willmore Flow of Graphs. *Journal of Scientific Computing*, **2009**, 40, 375-390 | 2.3 | 15 |

| | | | |
|---|---|---|---|
| 1073 | A Mixed DG Method for Linearized Incompressible Magnetohydrodynamics. *Journal of Scientific Computing*, **2009**, 40, 281-314 | 2.3 | 32 |
| 1072 | A Study of Viscous Flux Formulations for a p-Multigrid Spectral Volume Navier Stokes Solver. *Journal of Scientific Computing*, **2009**, 41, 165-199 | 2.3 | 53 |
| 1071 | Hermite WENO Schemes and Their Application as Limiters for Runge-Kutta Discontinuous Galerkin Method, III: Unstructured Meshes. *Journal of Scientific Computing*, **2009**, 39, 293-321 | 2.3 | 270 |
| 1070 | Evolution of Probability Distribution in Time for Solutions of Hyperbolic Equations. *Journal of Scientific Computing*, **2009**, 41, 13-48 | 2.3 | 1 |
| 1069 | Interior Penalty Discontinuous Galerkin Method for Maxwell's Equations in Cold Plasma. *Journal of Scientific Computing*, **2009**, 41, 321-340 | 2.3 | 25 |
| 1068 | Finite Volume Approximation of One-Dimensional Stiff Convection-Diffusion Equations. *Journal of Scientific Computing*, **2009**, 41, 384-410 | 2.3 | 16 |
| 1067 | Local Discontinuous Galerkin Finite Element Method and Error Estimates for One Class of Sobolev Equation. *Journal of Scientific Computing*, **2009**, 41, 436-460 | 2.3 | 32 |
| 1066 | Fourier analysis for discontinuous Galerkin and related methods. **2009**, 54, 1809-1816 | | 3 |
| 1065 | Discontinuous Galerkin least-squares finite element methods for singularly perturbed reaction-diffusion problems with discontinuous coefficients and boundary singularities. **2009**, 112, 295-318 | | 12 |
| 1064 | Hierarchical reconstruction for spectral volume method on unstructured grids. *Journal of Computational Physics*, **2009**, 228, 5787-5802 | 4.1 | 223 |
| 1063 | Adjoint-based hp adaptive discontinuous Galerkin methods for the 2D compressible Euler equations. *Journal of Computational Physics*, **2009**, 228, 7643-7661 | 4.1 | 77 |
| 1062 | Quantum hydrodynamics with trajectories: The nonlinear conservation form mixed/discontinuous Galerkin method with applications in chemistry. *Journal of Computational Physics*, **2009**, 228, 8589-8608 | 4.1 | 4 |
| 1061 | Local derivative post-processing for the discontinuous Galerkin method. *Journal of Computational Physics*, **2009**, 228, 8642-8664 | 4.1 | 25 |
| 1060 | Modeling of convection-dominated thermoporomechanics problems using incomplete interior penalty Galerkin method. *Computer Methods in Applied Mechanics and Engineering*, **2009**, 198, 912-919 | 5.7 | 31 |
| 1059 | Dynamic p-adaptive Runge–Kutta discontinuous Galerkin methods for the shallow water equations. *Computer Methods in Applied Mechanics and Engineering*, **2009**, 198, 1766-1774 | 5.7 | 49 |
| 1058 | A discontinuous Galerkin solver for Boltzmann–Poisson systems in nano devices. *Computer Methods in Applied Mechanics and Engineering*, **2009**, 198, 3130-3150 | 5.7 | 51 |
| 1057 | On a coupled discontinuous/continuous Galerkin framework and an adaptive penalty scheme for poroelasticity problems. *Computer Methods in Applied Mechanics and Engineering*, **2009**, 198, 3499-3510 | 5.7 | 24 |
| 1056 | A stabilized finite element method for modeling of gas discharges. **2009**, 180, 1230-1241 | | 26 |

| 1055 | Convergence analysis of an upwind mixed element method for advection diffusion problems. **2009**, 212, 318-326 | 6 |

| 1054 | Efficient computable error bounds for discontinuous Galerkin approximations of elliptic problems. **2009**, 226, 358-369 | 13 |

| 1053 | Solving gas dynamics problems with shock waves using the Runge-Kutta discontinuous Galerkin method. **2009**, 1, 635-645 | 4 |

| 1052 | CABARET in the ocean gyres. **2009**, 30, 155-168 | 66 |

| 1051 | A High Order Space-time Riemann-solver-free Method for Solving Compressible Euler Equations. **2009**, | 4 |

| 1050 | Non-Uniform Time-Step Runge-Kutta Discontinuous Galerkin Method for Computational Aeroacoustics. **2009**, | |

| 1049 | A Solution Limiting Procedure for a High Order Space-Time Method. **2009**, | 2 |

| 1048 | Curved Mesh Generation and Mesh Refinement using Lagrangian Solid Mechanics. **2009**, | 94 |

| 1047 | Adjoint-based h-p Adaptive Discontinuous Galerkin Methods for the Compressible Euler Equations. **2009**, | 8 |

| 1046 | High Order Weighted Essentially Nonoscillatory Schemes for Convection Dominated Problems. **2009**, 51, 82-126 | 520 |

| 1045 | Scalable Parallel Newton-Krylov Solvers for Discontinuous Galerkin Discretizations. **2009**, | 13 |

| 1044 | The Direct Discontinuous Galerkin (DDG) Methods for Diffusion Problems. **2009**, 47, 675-698 | 110 |

| 1043 | Analysis of Dual Consistency for Discontinuous Galerkin Discretizations of Source Terms. **2009**, 47, 3507-3525 | 31 |

| 1042 | Coupling Stokes Darcy Flow with Transport. **2009**, 31, 3661-3684 | 50 |

| 1041 | Energy Conserving Explicit Local Time Stepping for Second-Order Wave Equations. **2009**, 31, 1985-2014 | 69 |

| 1040 | Local Discontinuous Galerkin Method for the Hunter Saxton Equation and Its Zero-Viscosity and Zero-Dispersion Limits. **2009**, 31, 1249-1268 | 12 |

| 1039 | HLLC-type Riemann solver for the Baer Nunziato equations of compressible two-phase flow. *Journal of Computational Physics*, **2010**, 229, 3573-3604 | 4.1 | 100 |

| 1038 | On the simulation of wave propagation with a higher-order finite volume scheme based on Reproducing Kernel Methods. *Computer Methods in Applied Mechanics and Engineering*, **2010**, 199, 1471-1490 | 5.7 | 23 |

| 1037 | Well-balanced RKDG2 solutions to the shallow water equations over irregular domains with wetting and drying. **2010**, 39, 2040-2050 | | 41 |
|---|---|---|---|
| 1036 | Stability in the almost everywhere sense: A linear transfer operator approach. **2010**, 368, 144-156 | | 30 |
| 1035 | A discontinuous finite element baroclinic marine model on unstructured prismatic meshes. **2010**, 60, 1395-1414 | | 17 |
| 1034 | A generic interface for parallel and adaptive discretization schemes: abstraction principles and the Dune-Fem module. **2010**, 90, 165-196 | | 72 |
| 1033 | Error analysis of the semi-discrete local discontinuous Galerkin method for semiconductor device simulation models. **2010**, 53, 3255-3278 | | 7 |
| 1032 | A Hyperbolic Theory for Advection-Diffusion Problems: Mathematical Foundations and Numerical Modeling. **2010**, 17, 191-211 | | 19 |
| 1031 | Quantification of Errors Introduced in the Numerical Approximation and Implementation of Smoothness-Increasing Accuracy Conserving (SIAC) Filtering of Discontinuous Galerkin (DG) Fields. *Journal of Scientific Computing*, **2010**, 45, 447-470 | 2.3 | 12 |
| 1030 | A finite element-based level set method for structural optimization. **2010**, 82, 805-842 | | 25 |
| 1029 | A performance comparison of nodal discontinuous Galerkin methods on triangles and quadrilaterals. **2010**, 64, 1336-1362 | | 19 |
| 1028 | An implicit LU-SGS spectral volume method for the moment models in device simulations: Formulation in 1D and application to a p-multigrid algorithm. **2010**, 27, n/a-n/a | | 3 |
| 1027 | On the role of Riemann solvers in Discontinuous Galerkin methods for magnetohydrodynamics. *Journal of Computational Physics*, **2010**, 229, 660-680 | 4.1 | 14 |
| 1026 | Shock capturing with PDE-based artificial viscosity for DGFEM: Part I. Formulation. *Journal of Computational Physics*, **2010**, 229, 1810-1827 | 4.1 | 114 |
| 1025 | A discontinuous Galerkin method for viscous compressible multifluids. *Journal of Computational Physics*, **2010**, 229, 2249-2266 | 4.1 | 9 |
| 1024 | A hybrid multilevel method for high-order discretization of the Euler equations on unstructured meshes. *Journal of Computational Physics*, **2010**, 229, 3938-3956 | 4.1 | 5 |
| 1023 | Nonuniform time-step Runge-Kutta discontinuous Galerkin method for Computational Aeroacoustics. *Journal of Computational Physics*, **2010**, 229, 6874-6897 | 4.1 | 32 |
| 1022 | Error analysis of a discontinuous Galerkin method for Maxwell equations in dispersive media. *Journal of Computational Physics*, **2010**, 229, 8552-8563 | 4.1 | 44 |
| 1021 | A class of deformational flow test cases for linear transport problems on the sphere. *Journal of Computational Physics*, **2010**, 229, 8868-8887 | 4.1 | 88 |
| 1020 | On positivity-preserving high order discontinuous Galerkin schemes for compressible Euler equations on rectangular meshes. *Journal of Computational Physics*, **2010**, 229, 8918-8934 | 4.1 | 309 |

| 1019 | An arbitrary Lagrangian‑Eulerian discontinuous Galerkin method for simulations of flows over variable geometries. **2010**, 26, 312-329 | | 40 |
|---|---|---|---|
| 1018 | A mixed finite element method with exactly divergence-free velocities for incompressible magnetohydrodynamics. *Computer Methods in Applied Mechanics and Engineering*, **2010**, 199, 2840-2855 | 5.7 | 81 |
| 1017 | A discontinuous Galerkin algorithm for the two-dimensional shallow water equations. *Computer Methods in Applied Mechanics and Engineering*, **2010**, 199, 3356-3368 | 5.7 | 30 |
| 1016 | A finite-element, multi-scale model of the Scheldt tributaries, river, estuary and ROFI. **2010**, 57, 850-863 | | 56 |
| 1015 | Arbitrary high order PNPM schemes on unstructured meshes for the compressible Navier‑Stokes equations. **2010**, 39, 60-76 | | 193 |
| 1014 | The direct discontinuous Galerkin (DDG) viscous flux scheme for the high order spectral volume method. **2010**, 39, 2007-2021 | | 26 |
| 1013 | A vertex-based hierarchical slope limiter for . **2010**, 233, 3077-3085 | | 320 |
| 1012 | RKDG with WENO Type Limiters. **2010**, 67-80 | | 1 |
| 1011 | Adjoint Sensitivity Formulation for Discontinuous Galerkin Discretizations in Unsteady Inviscid Flow Problems. *AIAA Journal*, **2010**, 48, 2867-2883 | 2.1 | 18 |
| 1010 | Discontinuous Galerkin Methods. **2010**, | | 1 |
| 1009 | Modeling Carrier-Phonon Nonequilibrium Due to Pulsed Laser Interaction With Nanoscale Silicon Films. **2010**, 132, | | 3 |
| 1008 | Stability Analysis and A Priori Error Estimates of the Third Order Explicit Runge‑Kutta Discontinuous Galerkin Method for Scalar Conservation Laws. **2010**, 48, 1038-1063 | | 86 |
| 1007 | Superconvergence of Discontinuous Galerkin and Local Discontinuous Galerkin Schemes for Linear Hyperbolic and Convection-Diffusion Equations in One Space Dimension. **2010**, 47, 4044-4072 | | 89 |
| 1006 | Scalable Direct Vlasov Solver with Discontinuous Galerkin Method on Unstructured Mesh. **2010**, 32, 3476-3494 | | 4 |
| 1005 | Efficient Solution Techniques for Discontinuous Galerkin Discretizations of the Navier-Stokes Equations on Hybrid Anisotropic Meshes. **2010**, | | 15 |
| 1004 | A Hybridizable Discontinuous Galerkin Method for the Incompressible Navier-Stokes Equations. **2010**, | | 23 |
| 1003 | A Hybridizable Discontinuous Galerkin Method for the Compressible Euler and Navier-Stokes Equations. **2010**, | | 53 |
| 1002 | Unsteady Discrete Adjoint Formulation for High-order Discontinuous Galerkin Discretizations in Time-dependent Flow Problems. **2010**, | | 5 |

| | | |
|---|---|---|
| 1001 | Higher-Order Preserving Methods for Unsteady Finite Volume Solvers Based on Reproducing Kernels: Application to Aeroacoustic Problems. **2010**, | |
| 1000 | A high order Spectral Volume method for moving boundary problems. **2010**, | 2 |
| 999 | Beyond Interface Gradient: A General Principle for Constructing Diffusion Schemes. **2010**, | 48 |
| 998 | Preliminary Implementation of a High Order Space-time Method on Overset Cartesian/Quadrilateral Grids. **2010**, | 1 |
| 997 | Toward a Robust, Higher-Order Cut-Cell Method for Viscous Flows. **2010**, | 5 |
| 996 | Accurate modelling of unsteady flows in collapsible tubes. **2010**, 13, 279-90 | 20 |
| 995 | Discontinuous Galerkin methods for general-relativistic hydrodynamics: Formulation and application to spherically symmetric spacetimes. **2011**, 84, | 45 |
| 994 | Refinement and Connectivity Algorithms for Adaptive Discontinuous Galerkin Methods. **2011**, 33, 66-101 | 4 |
| 993 | Uniformly Accurate Discontinuous Galerkin Fast Sweeping Methods for Eikonal Equations. **2011**, 33, 1873-1896 | 20 |
| 992 | Application of Discontinuous Galerkin Scheme to Batch Crystallization Models. **2011**, 50, 4113-4122 | 0 |
| 991 | A brief survey of the discontinuous Galerkin method for the Boltzmann-Poisson equations. **2011**, 54, 47-64 | 16 |
| 990 | Comparison of the High-Order Compact Difference and Discontinuous Galerkin Methods in Computations of the Incompressible Flow. **2011**, 191-196 | 1 |
| 989 | A Hybridized Discontinuous Petrov-Galerkin Method for Compresible Flows. **2011**, | 2 |
| 988 | A Discontinuous Galerkin Discretization with Multiwavelet-Based Grid Adadptation for Compressible Flows. **2011**, | 1 |
| 987 | Wave Computation Using a A High Order Space-time Riemann Solver Free Method. **2011**, | 0 |
| 986 | Robust and Accurate Shock Capturing Method for High-Order Discontinuous Galerkin Methods. **2011**, | 5 |
| 985 | An Adaptive Shock-Capturing HDG Method for Compressible Flows. **2011**, | 10 |
| 984 | Advances in Bringing High-Order Methods to Practical Applications in Computational Fluid Dynamics. **2011**, | 8 |

| 983 | Sensitivity Analysis of Limit Cycle Oscillations. **2011**, | | |
|---|---|---|---|
| 982 | High-Order Methods for Diffusion Equation with Energy Stable Flux Reconstruction Scheme. **2011**, | | 2 |
| 981 | A Stable Spectral Difference Method for Triangles. **2011**, | | 4 |
| 980 | An hp-Adaptive Discontinuous Galerkin Solver for Aerodynamic flows on Mixed-Element Meshes. **2011**, | | 31 |
| 979 | High-Order LES Simulations using Implicit-Explicit Runge-Kutta Schemes. **2011**, | | 11 |
| 978 | Application of High-Order Energy Stable Flux Reconstruction Schemes to the Euler Equations. **2011** , | | 20 |
| 977 | GPU-accelerated sparse matrix-vector product for a hybridizable discontinuous Galerkin method. **2011**, | | 6 |
| 976 | Position-Dependent Smoothness-Increasing Accuracy-Conserving (SIAC) Filtering for Improving Discontinuous Galerkin Solutions. **2011**, 33, 802-825 | | 34 |
| 975 | Simulation of space charge dynamics in low-density polyethylene under external electric field and injection barrier heights using discontinuous galerkin method. **2011**, 18, 1374-1382 | | 11 |
| 974 | Coupling discontinuous Galerkin methods and retarded potentials for transient wave propagation on unbounded domains. *Journal of Computational Physics*, **2011**, 230, 5877-5907 | 4.1 | 31 |
| 973 | Central local discontinuous galerkin methods on overlapping cells for diffusion equations. **2011**, 45, 1009-1032 | | 21 |
| 972 | Simulation of the flow between rotating disks with Discontinuous Galerkin method. **2011**, 318, 042037 | | |
| 971 | Numerical Methods for Two-Fluid Dispersive Fast MHD Phenomena. **2011**, 10, 183-215 | | 24 |
| 970 | A Compact High Order Space-Time Method for Conservation Laws. **2011**, 9, 441-480 | | 4 |
| 969 | A High Order Spectral Volume Formulation for Solving Equations Containing Higher Spatial Derivative Terms: Formulation and Analysis for Third Derivative Spatial Terms Using the LDG Discretization Procedure. **2011**, 10, 1257-1279 | | 11 |
| 968 | The multi-dimensional limiters for solving hyperbolic conservation laws on unstructured grids. *Journal of Computational Physics*, **2011**, 230, 7775-7795 | 4.1 | 39 |
| 967 | Positivity preserving semi-Lagrangian discontinuous Galerkin formulation: Theoretical analysis and application to the VlasovPoisson system. *Journal of Computational Physics*, **2011**, 230, 8386-8409 | 4.1 | 84 |
| 966 | Connections between the filtered discontinuous Galerkin method and the flux reconstruction approach to high order discretizations. *Computer Methods in Applied Mechanics and Engineering*, **2011**, 200, 3628-3636 | 5.7 | 39 |

| 965 | A posteriori error analysis of the discontinuous finite element methods for first order hyperbolic problems. **2011**, 218, 1752-1764 | | 4 |
|---|---|---|---|
| 964 | A discontinuous Galerkin method to solve chromatographic models. **2011**, 1218, 7137-46 | | 31 |
| 963 | On the power of second-order accurate numerical methods for model problems of gas- and hydrodynamics. **2011**, 3, 92-112 | | 3 |
| 962 | LDG2: A Variant of the LDG Flux Formulation for the Spectral Volume Method. *Journal of Scientific Computing*, **2011**, 46, 314-328 | 2.3 | 28 |
| 961 | Third Order Explicit Runge-Kutta Discontinuous Galerkin Method for Linear Conservation Law with Inflow Boundary Condition. *Journal of Scientific Computing*, **2011**, 46, 294-313 | 2.3 | 11 |
| 960 | A New Class of High-Order Energy Stable Flux Reconstruction Schemes. *Journal of Scientific Computing*, **2011**, 47, 50-72 | 2.3 | 218 |
| 959 | ADER Schemes for Nonlinear Systems of Stiff Advection Diffusion Reaction Equations. *Journal of Scientific Computing*, **2011**, 48, 173-189 | 2.3 | 82 |
| 958 | A Generic Stabilization Approach for Higher Order Discontinuous Galerkin Methods for Convection Dominated Problems. *Journal of Scientific Computing*, **2011**, 47, 365-388 | 2.3 | 13 |
| 957 | Numerical simulations of compressible mixing layers with a discontinuous Galerkin method. **2011**, 27, 318-329 | | 12 |
| 956 | Structural Stability of Discontinuous Galerkin Schemes. **2011**, 113, 45-56 | | 2 |
| 955 | Analysis of space time discontinuous Galerkin method for nonlinear convection diffusion problems. **2011**, 117, 251-288 | | 23 |
| 954 | Advanced physics calculations using a multi-fluid plasma model. **2011**, 182, 1767-1770 | | 41 |
| 953 | A local discontinuous Galerkin method for directly solving Hamilton Jacobi equations. *Journal of Computational Physics*, **2011**, 230, 232-244 | 4.1 | 50 |
| 952 | An implicit high-order hybridizable discontinuous Galerkin method for the incompressible Navier Stokes equations. *Journal of Computational Physics*, **2011**, 230, 1147-1170 | 4.1 | 159 |
| 951 | Krylov implicit integration factor methods for spatial discretization on high dimensional unstructured meshes: Application to discontinuous Galerkin methods. *Journal of Computational Physics*, **2011**, 230, 4336-4352 | 4.1 | 40 |
| 950 | CFL Conditions for Runge Kutta discontinuous Galerkin methods on triangular grids. *Journal of Computational Physics*, **2011**, 230, 4657-4678 | 4.1 | 22 |
| 949 | Central discontinuous Galerkin methods for ideal MHD equations with the exactly divergence-free magnetic field. *Journal of Computational Physics*, **2011**, 230, 4828-4847 | 4.1 | 66 |
| 948 | Linear and angular momentum conservation in hydraulic jump in diverging channels. **2011**, 34, 227-242 | | 5 |

| | | | |
|---|---|---|---|
| 947 | A simple stabilized finite element method for solving two phase compressible incompressible interface flows. *Computer Methods in Applied Mechanics and Engineering*, **2011**, 200, 1272-1290 | 5.7 | 14 |
| 946 | Robust and accurate viscous discretization via upwind scheme I: Basic principle. **2011**, 49, 62-86 | | 53 |
| 945 | High-Resolution Finite Volume Methods on Unstructured Grids for Turbulence and Aeroacoustics. **2011**, 18, 315-340 | | 10 |
| 944 | Investigations on the numerical solution of the Fokker-Planck equation with discontinuous Galerkin Methods. **2011**, 11, 329-330 | | |
| 943 | A conservative high-order discontinuous Galerkin method for the shallow water equations with arbitrary topography. **2011**, 86, 47-69 | | 25 |
| 942 | Output error estimation strategies for discontinuous Galerkin discretizations of unsteady convection-dominated flows. **2011**, 88, 1297-1322 | | 12 |
| 941 | A new well-balanced Hermite weighted essentially non-oscillatory scheme for shallow water equations. **2011**, 67, 1135-1159 | | 9 |
| 940 | An hp-adaptive discontinuous Galerkin method for shallow water flows. **2011**, 67, 1605-1623 | | 19 |
| 939 | Implicit time integration of hyperbolic conservation laws via discontinuous Galerkin methods. **2011**, 27, 711-721 | | 2 |
| 938 | Toward a higher order unsteady finite volume solver based on reproducing kernel methods. *Computer Methods in Applied Mechanics and Engineering*, **2011**, 200, 2348-2362 | 5.7 | 21 |
| 937 | Numerical resolution of discontinuous Galerkin methods for time dependent wave equations. *Computer Methods in Applied Mechanics and Engineering*, **2011**, 200, 2814-2827 | 5.7 | 21 |
| 936 | A high order Discontinuous Galerkin Finite Element solver for the incompressible Navier Stokes equations. **2011**, 46, 224-230 | | 75 |
| 935 | Curvature and entropy based wall boundary condition for the high order spectral volume Euler solver. **2011**, 44, 79-88 | | 4 |
| 934 | A high order spectral volume method for elastohydrodynamic lubrication problems: Formulation and application of an implicit p-multigrid algorithm for line contact problems. **2011**, 48, 44-53 | | 5 |
| 933 | Numerical properties of high order discrete velocity solutions to the BGK kinetic equation. **2011**, 61, 410-427 | | 7 |
| 932 | Adaptive discontinuous Galerkin methods in multiwavelets bases. **2011**, 61, 879-890 | | 19 |
| 931 | Local DG method using WENO type limiters for convection diffusion problems. *Journal of Computational Physics*, **2011**, 230, 4353-4375 | 4.1 | 13 |
| 930 | On the geometric conservation law for high-order discontinuous Galerkin discretizations on dynamically deforming meshes. *Journal of Computational Physics*, **2011**, 230, 4285-4300 | 4.1 | 20 |

| 929 | High-order implicit hybridizable discontinuous Galerkin methods for acoustics and elastodynamics. *Journal of Computational Physics*, **2011**, 230, 3695-3718 | 4.1 | 98 |
|---|---|---|---|
| 928 | Output-based space-time mesh adaptation for the compressible Navier-Stokes equations. *Journal of Computational Physics*, **2011**, 230, 5753-5773 | 4.1 | 30 |
| 927 | Energetics Considerations in Parachute Aerodynamic Design. **2011**, | | |
| 926 | Computational Sports Aerodynamics of a Moving Sphere: Simulating a Ping Pong Ball in Free Flight. **2011**, | | 2 |
| 925 | Alternating Evolution Schemes for Hyperbolic Conservation Laws. **2011**, 33, 3210-3240 | | 5 |
| 924 | A Number of Riemann Solvers for a Conserved Higher-Order Traffic Flow Model. **2011**, | | 4 |
| 923 | Discontinuous Galerkin (DG) Finite Element Method for the Improved Stokes Equations. **2011**, 250-253, 291-297 | | 1 |
| 922 | Facilitating the Adoption of Unstructured High-Order Methods Amongst a Wider Community of Fluid Dynamicists. **2011**, 6, 97-140 | | 53 |
| 921 | Local discontinuous Galerkin methods for the Rosenau-Burgers equation. **2011**, | | |
| 920 | Multiwavelet Discontinuous Galerkin-Accelerated Exact Linear Part (ELP) Method for the Shallow-Water Equations on the Cubed Sphere. **2011**, 139, 457-473 | | 11 |
| 919 | Analytical and computational study of the ideal full two-fluid plasma model and asymptotic approximations for Hall-magnetohydrodynamics. **2011**, 18, 092113 | | 38 |
| 918 | A Dynamic hp-Adaptive Discontinuous Galerkin Method for Shallow-Water Flows on the Sphere with Application to a Global Tsunami Simulation. **2012**, 140, 978-996 | | 39 |
| 917 | Solution of Multimaterial Equilibrium Radiation Diffusion Problems by using the Discontinuous Galerkin Method. **2012**, 29, 110201 | | 2 |
| 916 | An application of Discontinuous Galerkin space and velocity discretisations to the solution of a model kinetic equation. **2012**, 26, 145-161 | | 5 |
| 915 | Time Implicit High-Order Discontinuous Galerkin Method with Reduced Evaluation Cost. **2012**, 34, A370-A394 | | 2 |
| 914 | A LDG method for the fourth-order NLS equation. **2012**, | | |
| 913 | Computing Shocked Flows with High-order Accurate Discontinuous Galerkin Methods. **2012**, | | 6 |
| 912 | High-Order Navier-Stokes Simulations Using a Sparse Line-Based Discontinuous Galerkin Method. **2012**, | | 7 |

| 911 | Discontinuous Galerkin method with the spectral deferred correction time-integration scheme and a modified moment limiter for adaptive grids. **2012**, 7, 133-174 | | 1 |
|---|---|---|---|
| 910 | Runge-Kutta Discontinuous Galerkin Method Using Weno-Type Limiters: Three-Dimensional Unstructured Meshes. **2012**, 11, 985-1005 | | 15 |
| 909 | Stability Conditions for the Numerical Solution of Convection-Dominated Problems with Skew-Symmetric Discretizations. **2012**, 50, 1058-1085 | | 10 |
| 908 | Discontinuous Galerkin Approximation of Relaxation Models for Linear and Nonlinear Diffusion Equations. **2012**, 34, A105-A136 | | 2 |
| 907 | Smoothness-Increasing Accuracy-Conserving (SIAC) Filtering for Discontinuous Galerkin Solutions: Improved Errors Versus Higher-Order Accuracy. *Journal of Scientific Computing*, **2012**, 53, 129-149 | 2.3 | 19 |
| 906 | Robust Computation of Turbulent Flows Using a Discontinuous Galerkin Method. **2012**, | | 31 |
| 905 | Modelling aerobic biodegradation in vertical flow sand filters: impact of operational considerations on oxygen transfer and bacterial activity. **2012**, 46, 2270-80 | | 16 |
| 904 | A Stabilized Finite Volume Element Formulation for Sedimentation-Consolidation Processes. **2012**, 34, B265-B289 | | 33 |
| 903 | Dynamically adaptive grid based discontinuous Galerkin shallow water model. **2012**, 37, 23-39 | | 28 |
| 902 | Hybridizable discontinuous Galerkin methods for partial differential equations in continuum mechanics. *Journal of Computational Physics*, **2012**, 231, 5955-5988 | 4.1 | 82 |
| 901 | A time-domain Discontinuous Galerkin method for mechanical resonator quality factor computations. *Journal of Computational Physics*, **2012**, 231, 6380-6392 | 4.1 | 4 |
| 900 | Efficient large scale electromagnetic simulations using dynamically adapted meshes with the discontinuous Galerkin method. **2012**, 236, 4909-4924 | | 25 |
| 899 | Runge₭utta discontinuous Galerkin method for interface flows with a maximum preserving limiter. **2012**, 65, 2-7 | | 6 |
| 898 | hp-Adaptive Discontinuous Galerkin Solver for the Navier-Stokes Equations. *AIAA Journal*, **2012**, 50, 2682-2694 | 2.2 | 15 |
| 897 | A well-balanced, third-order-accurate RKDG scheme for SWE on curved boundary domains. **2012**, 46, 31-45 | | 9 |
| 896 | Mixed finite elements for numerical weather prediction. *Journal of Computational Physics*, **2012**, 231, 7076-7091 | 4.1 | 66 |
| 895 | HP-Multigrid as Smoother algorithm for higher order discontinuous Galerkin discretizations of advection dominated flows. Part II: Optimization of the Runge₭utta smoother. *Journal of Computational Physics*, **2012**, 231, 7564-7583 | 4.1 | 16 |
| 894 | hp-Multigrid as Smoother algorithm for higher order discontinuous Galerkin discretizations of advection dominated flows: Part I. Multilevel analysis. *Journal of Computational Physics*, **2012**, 231, 7537-7563 | 4.1 | 17 |

| | | | |
|---|---|---|---|
| 893 | Modeling and numerical approximation of a 2.5D set of equations for mesoscale atmospheric processes. *Journal of Computational Physics*, **2012**, 231, 7274-7298 | 4.1 | 1 |
| 892 | A comparison of the Discontinuous-Galerkin- and Spectral-Difference-Method on triangulations using PKD polynomials. *Journal of Computational Physics*, **2012**, 231, 7722-7729 | 4.1 | 5 |
| 891 | Shock capturing schemes with local mesh adaptation for high speed compressible flows on three dimensional unstructured grids. **2012**, 70, 126-135 | | 5 |
| 890 | Un método de captura de choques basado en las funciones de forma para Galerkin discontinuo de alto orden. **2012**, 28, 204-213 | | 0 |
| 889 | SRM Simulation Using the Level Set Method and Higher Order Integration Schemes. **2012**, | | 1 |
| 888 | Scalable Solvers for 2D Time Domain Electromagnetic Simulations. **2012**, | | 0 |
| 887 | Direct discontinuous Galerkin method for the generalized Burgers Fisher equation. **2012**, 21, 090206 | | 10 |
| 886 | Accuracy-enhancement of discontinuous Galerkin solutions for convection-diffusion equations in multiple-dimensions. **2012**, 81, 1929-1950 | | 30 |
| 885 | Theory of the Space-Time Discontinuous Galerkin Method for Nonstationary Parabolic Problems with Nonlinear Convection and Diffusion. **2012**, 50, 1181-1206 | | 20 |
| 884 | A hybridized discontinuous Petrov Galerkin scheme for scalar conservation laws. **2012**, 91, 950-970 | | 13 |
| 883 | Application of spectral filtering to discontinuous Galerkin methods on triangulations. **2012**, 28, 1840-1868 | | 13 |
| 882 | Local discontinuous Galerkin method for solving an N-carrier system. **2012**, 28, 2010-2020 | | |
| 881 | A simple shock-capturing technique for high-order discontinuous Galerkin methods. **2012**, 69, 1614-1632 | | 49 |
| 880 | High-order k-exact WENO finite volume schemes for solving gas dynamic Euler equations on unstructured grids. **2012**, 70, 742-763 | | 38 |
| 879 | New adaptive modal and DTV filtering routines for the DG method on triangular grids applied to the Euler equations. **2012**, 3, 17-50 | | 2 |
| 878 | A Fully-Discrete Local Discontinuous Galerkin Method for Convection-Dominated Sobolev Equation. *Journal of Scientific Computing*, **2012**, 51, 107-134 | 2.3 | 34 |
| 877 | To CG or to HDG: A Comparative Study. *Journal of Scientific Computing*, **2012**, 51, 183-212 | 2.3 | 113 |
| 876 | A New Class of High-Order Energy Stable Flux Reconstruction Schemes for Triangular Elements. *Journal of Scientific Computing*, **2012**, 51, 224-256 | 2.3 | 287 |

| | | | |
|---|---|---|---|
| 875 | Efficient Implementation of Smoothness-Increasing Accuracy-Conserving (SIAC) Filters for Discontinuous Galerkin Solutions. *Journal of Scientific Computing*, **2012**, 52, 85-112 | 2.3 | 28 |
| 874 | Fourier Type Error Analysis of the Direct Discontinuous Galerkin Method and Its Variations for Diffusion Equations. *Journal of Scientific Computing*, **2012**, 52, 638-655 | 2.3 | 11 |
| 873 | Investigation of multi-soliton, multi-cuspon solutions to the Camassa-Holm equation and their interaction. **2012**, 33, 225-246 | | 2 |
| 872 | High-order discontinuous element-based schemes for the inviscid shallow water equations: Spectral multidomain penalty and discontinuous Galerkin methods. **2012**, 218, 4825-4848 | | 7 |
| 871 | The local discontinuous Galerkin method for BurgersHuxley and BurgersHisher equations. **2012**, 218, 8773-8778 | | 21 |
| 870 | Local time-stepping in RungeKutta discontinuous Galerkin finite element methods applied to the shallow-water equations. *Computer Methods in Applied Mechanics and Engineering*, **2012**, 217-220, 139-152 | 5.7 | 30 |
| 869 | Discontinuous Galerkin schemes with defect corrections based on reconstruction. **2012**, 62, 71-85 | | 1 |
| 868 | A class of hybrid DG/FV methods for conservation laws II: Two-dimensional cases. *Journal of Computational Physics*, **2012**, 231, 1104-1120 | 4.1 | 59 |
| 867 | A class of hybrid DG/FV methods for conservation laws I: Basic formulation and one-dimensional systems. *Journal of Computational Physics*, **2012**, 231, 1081-1103 | 4.1 | 63 |
| 866 | Optimal RungeKutta schemes for discontinuous Galerkin space discretizations applied to wave propagation problems. *Journal of Computational Physics*, **2012**, 231, 2067-2091 | 4.1 | 29 |
| 865 | Adaptive local basis set for KohnSham density functional theory in a discontinuous Galerkin framework I: Total energy calculation. *Journal of Computational Physics*, **2012**, 231, 2140-2154 | 4.1 | 125 |
| 864 | A stable high-order Spectral Difference method for hyperbolic conservation laws on triangular elements. *Journal of Computational Physics*, **2012**, 231, 2359-2375 | 4.1 | 25 |
| 863 | Arbitrary order exactly divergence-free central discontinuous Galerkin methods for ideal MHD equations. *Journal of Computational Physics*, **2012**, 231, 2655-2675 | 4.1 | 44 |
| 862 | Sensitivity analysis of limit cycle oscillations. *Journal of Computational Physics*, **2012**, 231, 3228-3245 | 4.1 | 15 |
| 861 | The multi-dimensional limiters for solving hyperbolic conservation laws on unstructured grids II: Extension to high order finite volume schemes. *Journal of Computational Physics*, **2012**, 231, 4053-4077 | 4.1 | 236 |
| 860 | RungeKutta discontinuous Galerkin method for the approximation of Baer and Nunziato type multiphase models. *Journal of Computational Physics*, **2012**, 231, 4096-4141 | 4.1 | 22 |
| 859 | A Local Discontinuous Galerkin Method for Eddy Current Field Analysis in High-Speed Moving Conductors. **2012**, 48, 251-254 | | 4 |
| 858 | A discontinuous Galerkin scheme for the numerical solution of flow problems with discontinuities. **2012**, 68, 582-604 | | |

| 857 | A novel numerical method of high-order accuracy for flow in unsaturated porous media. **2012**, 89, 227-240 | | 19 |
|---|---|---|---|
| 856 | Numerical simulation of flapping wings using a panel method and a high-order Navier–Stokes solver. **2012**, 89, 1296-1316 | | 18 |
| 855 | Diffeomorphic 3D Image Registration via Geodesic Shooting Using an Efficient Adjoint Calculation. **2012**, 97, 229-241 | | 117 |
| 854 | Locally Limited and Fully Conserved RKDG2 Shallow Water Solutions with Wetting and Drying. *Journal of Scientific Computing*, **2012**, 50, 120-144 | 2.3 | 32 |
| 853 | Well-conditioned Orthonormal Hierarchical (mathcal{L}_{2}) Bases on Rn Simplicial Elements. *Journal of Scientific Computing*, **2012**, 50, 446-461 | 2.3 | 3 |
| 852 | On the treatment of transient area variation in 1D discontinuous Galerkin simulations of train-induced pressure waves in tunnels. **2013**, 71, 151-174 | | 3 |
| 851 | Convergence issues in using high-resolution schemes and lower–upper symmetric Gauss–Seidel method for steady shock-induced combustion problems. **2013**, 71, 1422-1437 | | 6 |
| 850 | The general analytical and numerical solution for the modified KdV equation with convergence analysis. **2013**, 36, 896-907 | | 2 |
| 849 | Comparison of dynamical cores for NWP models: comparison of COSMO and Dune. **2013**, 27, 453-472 | | 22 |
| 848 | Numerical simulation of EHD flows using Discontinuous Galerkin Finite Element methods. **2013**, 84, 270-278 | | 37 |
| 847 | Adaptive Discontinuous Galerkin Method for Response-Excitation PDF Equations. **2013**, 35, B890-B911 | | 17 |
| 846 | Analysis and numerical investigation of two dynamic models for liquid chromatography. **2013**, 90, 17-31 | | 35 |
| 845 | A Petrov–Galerkin scheme for modeling 1D channel flow with varying width and topography. **2013**, 224, 707-725 | | 8 |
| 844 | Discontinuous Galerkin finite element methods with shock-capturing for nonlinear convection dominated models. **2013**, 58, 278-287 | | 8 |
| 843 | Pressure forcing and dispersion analysis for discontinuous Galerkin approximations to oceanic fluid flows. *Journal of Computational Physics*, **2013**, 249, 36-66 | 4.1 | 4 |
| 842 | 2-D Discontinuous Galerkin Method for Streamer Discharge Simulations in Nitrogen. **2013**, 49, 1929-1932 | | 10 |
| 841 | Stability analysis and a priori error estimate of explicit Runge-Kutta discontinuous Galerkin methods for correlated random walk with density-dependent turning rates. **2013**, 56, 2645-2676 | | 3 |
| 840 | Local Discontinuous Galerkin Method for the Impact-Induced Wave in a Slender Cylinder Composed of a Non-Convex Elastic Material. **2013**, 1, 393-415 | | 1 |

| 839 | An h-adaptive RKDG method with troubled-cell indicator for two-dimensional hyperbolic conservation laws. **2013**, 39, 445-463 | | 17 |
|---|---|---|---|
| 838 | Time-Accurate Local Time Stepping and High-Order Space Time CESE Methods for Multi-Dimensional Flows Using Unstructured Meshes. **2013**, | | 2 |
| 837 | Multidomain Hybrid RKDG and WENO Methods for Hyperbolic Conservation Laws. **2013**, 35, A1049-A1072 | | 4 |
| 836 | A New Nonsymmetric Discontinuous Galerkin Method for Time Dependent Convection Diffusion Equations. *Journal of Scientific Computing*, **2013**, 54, 663-683 | 2.3 | 9 |
| 835 | One-dimensional shock-capturing for high-order discontinuous Galerkin methods. **2013**, 71, 737-755 | | 21 |
| 834 | An upwind-like discontinuous Galerkin method for hyperbolic systems. **2013**, 219, 8610-8621 | | 2 |
| 833 | Investigation on Discontinuous Galerkin Solvers for Different Simulations. **2013**, 61, 158-165 | | |
| 832 | RungeKutta discontinuous Galerkin methods with WENO limiter for the special relativistic hydrodynamics. *Journal of Computational Physics*, **2013**, 242, 138-168 | 4.1 | 24 |
| 831 | A 2D local discontinuous Galerkin method for contaminant transport in channel bends. **2013**, 88, 629-642 | | 7 |
| 830 | Tidal stream energy resource assessment of the Anglesey Skerries. **2013**, 3-4, e98-e111 | | 44 |
| 829 | RungeKutta discontinuous Galerkin method for reactive multiphase flows. **2013**, 83, 157-163 | | 4 |
| 828 | Comparison between adaptive and uniform discontinuous Galerkin simulations in dry 2D bubble experiments. *Journal of Computational Physics*, **2013**, 235, 371-393 | 4.1 | 23 |
| 827 | A new spherical harmonics scheme for multi-dimensional radiation transport I. Static matter configurations. *Journal of Computational Physics*, **2013**, 242, 648-669 | 4.1 | 51 |
| 826 | Superconvergence of discontinuous Galerkin and local discontinuous Galerkin methods: Eigen-structure analysis based on Fourier approach. *Journal of Computational Physics*, **2013**, 235, 458-485 | 4.1 | 38 |
| 825 | A higher order discontinuous Galerkin, global shallow water model: Global ocean tides and aquaplanet benchmarks. **2013**, 69, 93-107 | | 14 |
| 824 | An LDG numerical approach for Boussinesq type modelling. **2013**, 68, 77-87 | | 1 |
| 823 | Topography discretization techniques for Godunov-type shallow water numerical models: a comparative study. **2013**, 51, 351-367 | | 23 |
| 822 | Fast time implicitXxplicit discontinuous Galerkin method for the compressible NavierXtokes equations. *Journal of Computational Physics*, **2013**, 251, 272-291 | 4.1 | 14 |

| | | | |
|---|---|---|---|
| 821 | A local discontinuous Galerkin method for 1.5-dimensional streamer discharge simulations. **2013**, 219, 9925-9934 | | 25 |
| 820 | Runge–Kutta discontinuous Galerkin method using a new type of WENO limiters on unstructured meshes. *Journal of Computational Physics*, **2013**, 248, 200-220 | 4.1 | 104 |
| 819 | Time-integration methods for finite element discretisations of the second-order Maxwell equation. **2013**, 65, 528-543 | | 9 |
| 818 | Application of a discontinuous Galerkin finite element method to special relativistic hydrodynamic models. **2013**, 65, 1220-1232 | | 3 |
| 817 | A staggered semi-implicit spectral discontinuous Galerkin scheme for the shallow water equations. **2013**, 219, 8057-8077 | | 51 |
| 816 | A discontinuous Galerkin conservative level set scheme for interface capturing in multiphase flows. *Journal of Computational Physics*, **2013**, 249, 275-302 | 4.1 | 49 |
| 815 | A p-adaptive LCP formulation for the compressible Navier–Stokes equations. *Journal of Computational Physics*, **2013**, 233, 324-338 | 4.1 | 9 |
| 814 | A sparse and high-order accurate line-based discontinuous Galerkin method for unstructured meshes. *Journal of Computational Physics*, **2013**, 233, 414-429 | 4.1 | 22 |
| 813 | An analysis of the spectrum of the discontinuous Galerkin method. **2013**, 64, 1-18 | | 29 |
| 812 | Benchmarking FEniCS for mantle convection simulations. **2013**, 50, 95-105 | | 12 |
| 811 | A generalized approach for sub- and super-critical flows using the Local Discontinuous Galerkin method. *Computer Methods in Applied Mechanics and Engineering*, **2013**, 253, 169-185 | 5.7 | 6 |
| 810 | The local discontinuous Galerkin finite element method for a class of convection–diffusion equations. **2013**, 14, 734-752 | | 10 |
| 809 | Development of a High-Order Flux Reconstruction Scheme for Body-Fitted Cartesian Unstructured Grids. **2013**, | | 2 |
| 808 | An extended Discontinuous Galerkin and Spectral Difference Method with modal filtering. **2013**, 93, 459-464 | | 4 |
| 807 | Slope limiting for discontinuous Galerkin approximations with a possibly non-orthogonal Taylor basis. **2013**, 71, 1178-1190 | | 38 |
| 806 | Scalable parallelization of the hybridized discontinuous Galerkin method for compressible flow. **2013**, | | 6 |
| 805 | Discontinuous Galerkin Transport on the Spherical Yin–Yang Overset Mesh. **2013**, 141, 264-282 | | 7 |
| 804 | Numerical Solution of Compressible Euler Equations by High Order Nodal Discontinuous Galerkin Method. **2013**, 392, 165-169 | | 0 |

| 803 | Modified Burgers' equation by the local discontinuous Galerkin method. **2013**, 22, 030210 | 6 |

| 802 | An RKDG finite element method for the one-dimensional inviscid compressible gas dynamics equations in a Lagrangian coordinate. **2013**, 22, 020202 | 2 |

| 801 | The discontinuous PetrovGalerkin method for one-dimensional compressible Euler equations in the Lagrangian coordinate. **2013**, 22, 050206 | 5 |

| 800 | High-order finite element method for plasma modeling. **2013**, | 2 |

| 799 | On high-order accurate weighted essentially non-oscillatory and discontinuous Galerkin schemes for compressible turbulence simulations. **2013**, 371, 20120172 | 5 |

| 798 | Shock Capturing for High-Order Discontinuous Galerkin Simulation of Transient Flow Problems. **2013**, | 16 |

| 797 | A Hybridized Multiscale Discontinuous Galerkin Method for Compressible Flows. **2013**, | 2 |

| 796 | On the accuracy and efficiency of several discontinuous high-order formulations. **2013**, | 6 |

| 795 | Discontinuous Galerkin Method for Compressible Viscous Reacting Flow. **2013**, | 1 |

| 794 | A Discontinuous Galerkin Method for the Navier-Stokes Equations on Deforming Domains using Unstructured Moving Space-Time Meshes. **2013**, | 4 |

| 793 | Numerical solution of 2D Euler equations for the transonic flow past over NACA0012 and RAE2822 airfoils using high order accurate Runge-Kutta Discontinuous Galerkin method. **2014**, | |

| 792 | Fully Coupled Discontinuous Galerkin Modeling of Dam-Break Flows over Movable Bed with Sediment Transport. **2014**, 140, 06014006 | 6 |

| 791 | Discontinuous Galerkin Method for Time-Dependent Problems: Survey and Recent Developments. **2014**, 25-62 | 17 |

| 790 | Radial convection of finite ion temperature, high amplitude plasma blobs. **2014**, 21, 092301 | 41 |

| 789 | A posteriori subcell limiting of the discontinuous Galerkin finite element method for hyperbolic conservation laws. *Journal of Computational Physics*, **2014**, 278, 47-75 | 4.1 | 185 |

| 788 | A staggered semi-implicit discontinuous Galerkin method for the two dimensional incompressible NavierStokes equations. **2014**, 248, 70-92 | 37 |

| 787 | High-order discontinuous Galerkin spectral element methods for transitional and turbulent flow simulations. **2014**, 76, 522-548 | 125 |

| 786 | An efficient time-domain perfectly matched layers formulation for elastodynamics on spherical domains. **2014**, 100, 419-441 | 5 |

| | | | |
|---|---|---|---|
| 785 | A Conservative Semi-Lagrangian Discontinuous Galerkin Scheme on the Cubed Sphere. **2014**, 142, 457-475 | | 33 |
| 784 | Error-driven dynamical hp-meshes with the Discontinuous Galerkin Method for three-dimensional wave propagation problems. **2014**, 270, 353-368 | | 12 |
| 783 | A note on the numerical dissipation from high-order discontinuous finite element schemes. **2014**, 98, 186-195 | | 11 |
| 782 | High-order accurate fluid-structure simulation of a tuning fork. **2014**, 98, 230-238 | | 1 |
| 781 | Optimal energy conserving local discontinuous Galerkin methods for second-order wave equation in heterogeneous media. *Journal of Computational Physics*, **2014**, 272, 88-107 | 4.1 | 48 |
| 780 | Discontinuous Galerkin methods with nodal and hybrid modal/nodal triangular, quadrilateral, and polygonal elements for nonlinear shallow water flow. *Computer Methods in Applied Mechanics and Engineering*, **2014**, 270, 113-149 | 5.7 | 25 |
| 779 | Algebraic tailoring of discontinuous Galerkin p-multigrid for convection. **2014**, 98, 164-176 | | 1 |
| 778 | Smoothness-Increasing Accuracy-Conserving (SIAC) Filters for Discontinuous Galerkin Solutions: Application to Structured Tetrahedral Meshes. *Journal of Scientific Computing*, **2014**, 58, 690-704 | 2.3 | 17 |
| 777 | High-Order Local Time Stepping on Moving DG Spectral Element Meshes. *Journal of Scientific Computing*, **2014**, 58, 176-202 | 2.3 | 10 |
| 776 | Error estimates for the third order explicit Runge-Kutta discontinuous Galerkin method for a linear hyperbolic equation in one-dimension with discontinuous initial data. **2014**, 126, 703-740 | | 29 |
| 775 | A discontinuous Galerkin scheme for front propagation with obstacles. **2014**, 126, 1-31 | | 8 |
| 774 | A traffic flow model for bio-polymerization processes. **2014**, 68, 667-700 | | 6 |
| 773 | Current state of system thermohydraulic codes and trends in their development abroad. **2014**, 52, 98-109 | | 6 |
| 772 | Optimal Strong-Stability-Preserving Runge-Kutta Time Discretizations for Discontinuous Galerkin Methods. *Journal of Scientific Computing*, **2014**, 60, 313-344 | 2.3 | 37 |
| 771 | High-Order Multiderivative Time Integrators for Hyperbolic Conservation Laws. *Journal of Scientific Computing*, **2014**, 60, 101-140 | 2.3 | 45 |
| 770 | Direct discontinuous Galerkin method for nonlinear reaction-diffusion systems in pattern formation. **2014**, 38, 1612-1621 | | 24 |
| 769 | WENO schemes on arbitrary unstructured meshes for laminar, transitional and turbulent flows. *Journal of Computational Physics*, **2014**, 256, 254-276 | 4.1 | 261 |
| 768 | A class of quadrature-based moment-closure methods with application to the Vlasov-Poisson-Fokker-Planck system in the high-field limit. **2014**, 262, 384-398 | | 6 |

| | | | |
|---|---|---|---|
| 767 | Discontinuous Galerkin method for multicomponent chemically reacting flows and combustion. *Journal of Computational Physics*, **2014**, 270, 105-137 | 4.1 | 37 |
| 766 | An efficient parallel implementation of explicit multirate Runge Kutta schemes for discontinuous Galerkin computations. *Journal of Computational Physics*, **2014**, 256, 135-160 | 4.1 | 25 |
| 765 | Adaptive Discontinuous Galerkin Method for Transient Analysis of Eddy Current Fields in High-Speed Rotating Solid Rotors. **2014**, 50, 589-592 | | 8 |
| 764 | Local discontinuous Galerkin numerical solutions of non-Newtonian incompressible flows modeled by p-Navier Stokes equations. *Journal of Computational Physics*, **2014**, 270, 182-202 | 4.1 | 6 |
| 763 | A triangular discontinuous Galerkin method for non-Newtonian implicit constitutive models of rarefied and microscale gases. *Journal of Computational Physics*, **2014**, 273, 160-184 | 4.1 | 41 |
| 762 | On the accuracy and efficiency of discontinuous Galerkin, spectral difference and correction procedure via reconstruction methods. *Journal of Computational Physics*, **2014**, 259, 70-95 | 4.1 | 60 |
| 761 | Computational simulations of microscale shock vortex interaction using a mixed discontinuous Galerkin method. **2014**, 105, 179-193 | | 25 |
| 760 | Energy-conserving discontinuous Galerkin methods for the Vlasov Maxwell system. *Journal of Computational Physics*, **2014**, 279, 145-173 | 4.1 | 27 |
| 759 | Relaxing the CFL Number of the Discontinuous Galerkin Method. **2014**, 36, A2047-A2075 | | 3 |
| 758 | A conservative discontinuous Galerkin scheme for the 2D incompressible Navier Stokes equations. **2014**, 185, 2865-2873 | | 10 |
| 757 | Statistical analysis and simulation of random shocks in stochastic Burgers equation. **2014**, 470, 20140080 | | 9 |
| 756 | Discontinuous Galerkin methods for plasma physics in the scrape-off layer of tokamaks. *Journal of Computational Physics*, **2014**, 274, 898-919 | 4.1 | 9 |
| 755 | Recent advances on the discontinuous Galerkin method for shallow water equations with topography source terms. **2014**, 101, 88-104 | | 21 |
| 754 | Runge Kutta central discontinuous Galerkin BGK method for the Navier Stokes equations. *Journal of Computational Physics*, **2014**, 274, 592-610 | 4.1 | |
| 753 | Discontinuous Galerkin finite element scheme for a conserved higher-order traffic flow model by exploring Riemann solvers. **2014**, 244, 567-576 | | 5 |
| 752 | Localized axial Green's function method for the convection diffusion equations in arbitrary domains. *Journal of Computational Physics*, **2014**, 275, 390-414 | 4.1 | 10 |
| 751 | On unconditionally positive implicit time integration for the DG scheme applied to shallow water flows. **2014**, 76, 69-94 | | 14 |
| 750 | A fully-explicit discontinuous Galerkin hydrodynamic model for variably-saturated porous media. **2014**, 26, 594-607 | | 5 |

| 749 | A New Runge-Kutta Discontinuous Galerkin Method with Conservation Constraint to Improve CFL Condition for Solving Conservation Laws. *Journal of Computational Physics*, **2014**, 278, 348-377 | 4.1 | 8 |
| 748 | Discontinuous Galerkin finite element method for a nonlinear boundary value problem. **2014**, 30, 521-532 | | |
| 747 | A new discontinuous Galerkin finite element method for directly solving the Hamilton‖Jacobi equations. *Journal of Computational Physics*, **2014**, 268, 134-153 | 4.1 | 20 |
| 746 | A discontinuous Galerkin method for solving the fluid and magnetohydrodynamic equations in astrophysical simulations. **2014**, 437, 397-414 | | 42 |
| 745 | Connections between the discontinuous Galerkin method and high-order flux reconstruction schemes. **2014**, 75, 860-877 | | 46 |
| 744 | Energy-conserving discontinuous Galerkin methods for the Vlasov‖Ampère system. *Journal of Computational Physics*, **2014**, 256, 630-655 | 4.1 | 30 |
| 743 | Discontinuous Galerkin methods with Trefftz approximations. **2014**, 270, 211-222 | | 14 |
| 742 | A class of DG/FV hybrid schemes for conservation law IV: 2D viscous flows and implicit algorithm for steady cases. **2014**, 97, 110-125 | | 23 |
| 741 | A finite element exterior calculus framework for the rotating shallow-water equations. *Journal of Computational Physics*, **2014**, 257, 1506-1526 | 4.1 | 41 |
| 740 | Hierarchical slope limiting in explicit and implicit discontinuous Galerkin methods. *Journal of Computational Physics*, **2014**, 257, 1140-1162 | 4.1 | 33 |
| 739 | Superconvergence of the local discontinuous Galerkin method for the linearized Korteweg‖de Vries equation. **2014**, 255, 441-455 | | 21 |
| 738 | From to efficiently: optimal implementation strategies for explicit time-dependent problems using the spectral/ element method. **2014**, 75, 591-607 | | 7 |
| 737 | The multi-dimensional limiters for discontinuous Galerkin method on unstructured grids. **2014**, 96, 368-376 | | 17 |
| 736 | Spline spaces with mixed orders of continuity over T-meshes. **2014**, 268, 179-193 | | |
| 735 | Discontinuous Galerkin flood model formulation: Luxury or necessity?. **2014**, 50, 6522-6541 | | 21 |
| 734 | Advances in Numerical Methods for CREATE-AV Analysis Tools. **2014**, | | 13 |
| 733 | Finite-element Time Discretizations for the Unsteady Euler Equations. **2015**, | | 1 |
| 732 | A variational approach to optical flow estimation of unsteady incompressible flows. **2015**, 7, 149-167 | | 3 |

| | | | |
|---|---|---|---|
| 731 | Multiwavelet discontinuous Galerkinh-adaptive shallow water model. *Computer Methods in Applied Mechanics and Engineering*, **2015**, 294, 56-71 | 5.7 | 10 |
| 730 | Providing the divergence-free property of the magnetic field when solving the MHD equations by the RKDG method. **2015**, 55, 1298-1309 | | 1 |
| 729 | An analysis of HDG methods for convection-dominated diffusion problems. **2015**, 49, 225-256 | | 32 |
| 728 | A high-order numerical study of reactive dissolution in an upwelling heterogeneous mantle: 2. Effect of shear deformation. **2015**, 16, 3855-3869 | | 6 |
| 727 | A Staggered Discontinuous Galerkin Method with Local TV Regularization for the Burgers Equation. **2015**, 8, 451-474 | | 3 |
| 726 | Haar wavelet-based adaptive finite volume shallow water solver. **2015**, 17, 857-873 | | 10 |
| 725 | A priorierror estimates to smooth solutions of the third order RungeKutta discontinuous Galerkin method for symmetrizable systems of conservation laws. **2015**, 49, 991-1018 | | 12 |
| 724 | Implicit DG Method for Time Domain Maxwell Equations Involving Metamaterials. **2015**, 7, 796-817 | | 8 |
| 723 | A 2-D Numerical Model of Suspended Sediment Transport Based on the Discontinuous Galerkin Method. **2015**, | | |
| 722 | A 3D Numerical Model of Nearshore Wave-Induced Currents Based on the Discontinuous Galerkin Method. **2015**, | | |
| 721 | Numerical Solution of the Viscous Surface Wave with Discontinuous Galerkin Method. **2015**, 49, 1019-1046 | | 1 |
| 720 | Clearance gap flow: simulations by discontinuous Galerkin method and experiments. **2015**, 92, 02073 | | 1 |
| 719 | Predictor-Corrector LU-SGS Discontinuous Galerkin Finite Element Method for Conservation Laws. **2015**, 2015, 1-11 | | 1 |
| 718 | A hybrid discontinuous Galerkin method for advectiondiffusionreaction problems. **2015**, 95, 292-303 | | 9 |
| 717 | Computational simulation of the mechanical response of brain tissue under blast loading. **2015**, 14, 459-72 | | 15 |
| 716 | A discontinuous Galerkin method for modeling flow in networks of channels. **2015**, 79, 61-79 | | 7 |
| 715 | Artificial boundary layers in discontinuous Galerkin solutions to shallow water equations in channels. *Journal of Computational Physics*, **2015**, 299, 597-612 | 4.1 | 7 |
| 714 | Nonlinear Elasticity for Mesh Deformation with High-Order Discontinuous Galerkin Methods for the Navier-Stokes Equations on Deforming Domains. **2015**, 73-85 | | 6 |

| | | | |
|---|---|---|---|
| 713 | High-Order Solution of Viscoelastic Fluids Using the Discontinuous Galerkin Method. **2015**, 137, | | 11 |
| 712 | Stability and Error Estimates of Local Discontinuous Galerkin Methods with Implicit-Explicit Time-Marching for Advection-Diffusion Problems. **2015**, 53, 206-227 | | 71 |
| 711 | A Simple, Efficient, High-Order Accurate Sliding-mesh Interface Approach to FR/CPR Method on Coupled Rotating and Stationary Domains. **2015**, | | 4 |
| 710 | Implementation of High-Order Discontinuous Galerkin Method for Solution of Practical Tasks in External Aerodynamics and Aeroacoustics. **2015**, 337-379 | | 7 |
| 709 | Aghora: A High-Order DG Solver for Turbulent Flow Simulations. **2015**, 315-335 | | 14 |
| 708 | High order asymptotic preserving nodal discontinuous Galerkin IMEX schemes for the BGK equation. *Journal of Computational Physics*, **2015**, 284, 70-94 | 4.1 | 14 |
| 707 | Simulation of shallow-water jets with a unified element-based continuous/discontinuous Galerkin model with grid flexibility on the sphere. **2015**, 141, 1727-1739 | | 13 |
| 706 | Discontinuous Galerkin finite element method for solving population density functions of cortical pyramidal and thalamic neuronal populations. **2015**, 57, 150-8 | | 3 |
| 705 | The high order control volume discontinuous Petrov–Galerkin finite element method for the hyperbolic conservation laws based on Lax–Wendroff time discretization. **2015**, 252, 175-188 | | 1 |
| 704 | A weighted Runge–Kutta discontinuous Galerkin method for wavefield modelling. **2015**, 200, 1389-1410 | | 27 |
| 703 | Nanogap-Enhanced Terahertz Sensing of 1 nm Thick (λ/106) Dielectric Films. **2015**, 2, 417-424 | | 64 |
| 702 | Local Analysis of Local Discontinuous Galerkin Method for the Time-Dependent Singularly Perturbed Problem. *Journal of Scientific Computing*, **2015**, 63, 452-477 | 2.3 | 9 |
| 701 | Runge–Kutta Discontinuous Galerkin Method for Traffic Flow Model on Networks. *Journal of Scientific Computing*, **2015**, 63, 233-255 | 2.3 | 17 |
| 700 | A New Lax–Wendroff Discontinuous Galerkin Method with Superconvergence. *Journal of Scientific Computing*, **2015**, 65, 299-326 | 2.3 | 11 |
| 699 | A staggered space–time discontinuous Galerkin method for the incompressible Navier–Stokes equations on two-dimensional triangular meshes. **2015**, 119, 235-249 | | 34 |
| 698 | Bound-preserving discontinuous Galerkin methods for conservative phase space advection in curvilinear coordinates. *Journal of Computational Physics*, **2015**, 287, 151-183 | 4.1 | 10 |
| 697 | Entropy-bounded discontinuous Galerkin scheme for Euler equations. *Journal of Computational Physics*, **2015**, 295, 715-739 | 4.1 | 21 |
| 696 | Multilevel and local time-stepping discontinuous Galerkin methods for magma dynamics. **2015**, 19, 965-978 | | 5 |

| | | |
|---|---|---|
| 695 | Comparison of discontinuous Galerkin time integration schemes for the solution of flow problems with deformable domains. **2015**, 267, 329-340 | 5 |
| 694 | Turbulent Flow Simulations with the High-Order DG Solver Aghora. **2015**, | 3 |
| 693 | High Order Maximum-Principle-Preserving Discontinuous Galerkin Method for Convection-Diffusion Equations. **2015**, 37, A583-A608 | 24 |
| 692 | Discontinuous Galerkin Finite Element Methods for Numerical Simulations of Thermoelasticity. **2015**, 38, 983-1004 | 5 |
| 691 | A high-order discontinuous Galerkin method with unstructured space⊠ime meshes for two-dimensional compressible flows on domains with large deformations. **2015**, 118, 53-68 | 29 |
| 690 | A gyrokinetic one-dimensional scrape-off layer model of an edge-localized mode heat pulse. **2015**, 22, 022504 | 17 |
| 689 | A multi-dimensional high-order discontinuous Galerkin method based on gas kinetic theory for viscous flow computations. *Journal of Computational Physics*, **2015**, 292, 176-193 | 4.1 | 36 |
| 688 | A phase-based hybridizable discontinuous Galerkin method for the numerical solution of the Helmholtz equation. *Journal of Computational Physics*, **2015**, 290, 318-335 | 4.1 | 26 |
| 687 | Numerical study of the two-species Vlasov⊠mpre system: Energy-conserving schemes and the current-driven ion-acoustic instability. *Journal of Computational Physics*, **2015**, 288, 66-85 | 4.1 | 3 |
| 686 | An Implicit Algorithm for High-Order DG/FV Schemes for Compressible Flows on 2D Arbitrary Grids. **2015**, 17, 287-316 | 3 |
| 685 | Fourth Order Exponential Time Differencing Method with Local Discontinuous Galerkin Approximation for Coupled Nonlinear Schr⊠dinger Equations. **2015**, 17, 510-541 | 42 |
| 684 | Investigations of a New Scheme for Wave Propagation. **2015**, | 10 |
| 683 | An Output-Based Adaptive Hybridized Discontinuous Galerkin Method on Deforming Domains. **2015**, | 1 |
| 682 | Improving High-Order Finite Element Approximation Through Geometrical Warping. **2015**, | 1 |
| 681 | Hp-Adaptivity on Anisotropic Meshes for Hybridized Discontinuous Galerkin Scheme. **2015**, | 3 |
| 680 | High-order Discontinuous Galerkin Simulations on Moving Domains using ALE Formulations and Local Remeshing and Projections. **2015**, | 4 |
| 679 | Accuracy of High Order and Spectral Methods for Hyperbolic Conservation Laws with Discontinuous Solutions. **2015**, 53, 1857-1875 | 2 |
| 678 | Transparent boundary conditions for a discontinuous Galerkin Trefftz method. **2015**, 267, 42-55 | 11 |

| | | | |
|---|---|---|---|
| 677 | Benchmarking a multiresolution discontinuous Galerkin shallow water model: Implications for computational hydraulics. **2015**, 86, 14-31 | | 13 |
| 676 | Stationary Discrete Shock Profiles for Scalar Conservation Laws with a Discontinuous Galerkin Method. **2015**, 53, 1690-1715 | | 4 |
| 675 | Large eddy simulation of incompressible free round jet with discontinuous Galerkin method. **2015**, 79, 164-182 | | 9 |
| 674 | A class of embedded discontinuous Galerkin methods for computational fluid dynamics. *Journal of Computational Physics*, **2015**, 302, 674-692 | 4.1 | 26 |
| 673 | A discontinuous Galerkin method for optimal control problems governed by a system of convection‐diffusion PDEs with nonlinear reaction terms. **2015**, 70, 2414-2431 | | 10 |
| 672 | A compact high order finite volume method for hyperbolic conservation laws on unstructured grids. **2015**, | | |
| 671 | Discontinuous-Galerkin Discretization of a New Class of Green-Naghdi Equations. **2015**, 17, 721-760 | | 26 |
| 670 | On the stability of the ale space-time discontinuous Galerkin method for nonlinear convection-diffusion problems in time-dependent domains. **2015**, 60, 501-526 | | 6 |
| 669 | Study on flow and heat transfer of small scale gas flow for air cooling system. **2015**, 16, 2491-2498 | | 5 |
| 668 | A new spectral difference method using hierarchical polynomial bases for hyperbolic conservation laws. *Journal of Computational Physics*, **2015**, 284, 434-461 | 4.1 | 3 |
| 667 | A parallel Runge‐Kutta discontinuous Galerkin solver for rarefied gas flows based on 2D Boltzmann kinetic equations. **2015**, 109, 123-136 | | 15 |
| 666 | On discrete maximum principles for discontinuous Galerkin methods. *Computer Methods in Applied Mechanics and Engineering*, **2015**, 286, 107-122 | 5.7 | 15 |
| 665 | RKDG2 shallow-water solver on non-uniform grids with local time steps: Application to 1D and 2D hydrodynamics. **2015**, 39, 1317-1340 | | 18 |
| 664 | High order asymptotic preserving DG-IMEX schemes for discrete-velocity kinetic equations in a diffusive scaling. *Journal of Computational Physics*, **2015**, 281, 199-224 | 4.1 | 14 |
| 663 | Operator Bounds and Time Step Conditions for the DG and Central DG Methods. *Journal of Scientific Computing*, **2015**, 62, 532-554 | 2.3 | 11 |
| 662 | Adaptive multiresolution discontinuous Galerkin schemes for conservation laws: multi-dimensional case. **2016**, 35, 321-349 | | 16 |
| 661 | High-order Discontinuous Galerkin Method for Solving Elliptic Interface Problems. **2016**, 20, | | |
| 660 | Clearance gap flow: extended pneumatic measurements and simulations by discontinuous Galerkin finite element method. **2016**, 114, 02034 | | |

| | | | |
|---|---|---|---|
| 659 | An efficient WENO limiter for discontinuous Galerkin transport scheme on the cubed sphere. **2016**, 81, 3-21 | | 11 |
| 658 | An overset mesh approach for 3D mixed element high-order discretizations. *Journal of Computational Physics*, **2016**, 322, 33-51 | 4.1 | 35 |
| 657 | A Posteriori Error Estimates for Conservative Local Discontinuous GalerkinMethods for the Generalized Korteweg-de Vries Equation. **2016**, 20, 250-278 | | 13 |
| 656 | An efficient linear solver for the hybridized discontinuous Galerkin method. **2016**, 16, 845-846 | | 4 |
| 655 | Mean-square convergence of a symplectic local discontinuous Galerkin method applied to stochastic linear Schrﬔdinger equation. **2016**, drw023 | | |
| 654 | Local discontinuous Galerkin methods with implicit-explicit time-marching for multi-dimensional convection-diffusion problems. **2016**, 50, 1083-1105 | | 33 |
| 653 | A Sparse Grid Discontinuous Galerkin Method for High-Dimensional Transport Equations and Its Application to Kinetic Simulations. **2016**, 38, A3381-A3409 | | 26 |
| 652 | A GPU-accelerated adaptive discontinuous Galerkin method for level set equation. **2016**, 30, 56-68 | | 10 |
| 651 | Compact high order finite volume method on unstructured grids II: Extension to two-dimensional Euler equations. *Journal of Computational Physics*, **2016**, 314, 883-908 | 4.1 | 35 |
| 650 | A short note on the error estimates of Yuanﬔhu discontinuous Galerkin method based on non-polynomial approximation spaces. *Journal of Computational Physics*, **2016**, 320, 33-39 | 4.1 | 3 |
| 649 | Solving Maxwell's Equation in Meta-Materials by a CG-DG Method. **2016**, 19, 1242-1264 | | 13 |
| 648 | Assessment of a high-order discontinuous Galerkin method for internal flow problems. Part I: Benchmark results for quasi-1D, 2D waves propagation and axisymmetric turbulent flows. **2016**, 134-135, 61-80 | | |
| 647 | Stability Analysis of Discontinuous Galerkin Discrete Shock Profiles for Steady Scalar Conservation Laws. **2016**, 54, 187-209 | | |
| 646 | A Galerkin-based formulation of the probability density evolution method for general stochastic finite element systems. **2016**, 57, 701-716 | | 19 |
| 645 | A hybridized discontinuous Galerkin method on mapped deforming domains. **2016**, 139, 80-91 | | 10 |
| 644 | High order ADER schemes for a unified first order hyperbolic formulation of continuum mechanics: Viscous heat-conducting fluids and elastic solids. *Journal of Computational Physics*, **2016**, 314, 824-862 | 4.1 | 103 |
| 643 | High order WENO and DG methods for time-dependent convection-dominated PDEs: A brief survey of several recent developments. *Journal of Computational Physics*, **2016**, 316, 598-613 | 4.1 | 89 |
| 642 | An unconditionally stable algorithm for generalized thermoelasticity based on operator-splitting and time-discontinuous Galerkin finite element methods. *Computer Methods in Applied Mechanics and Engineering*, **2016**, 306, 427-451 | 5.7 | 6 |

| 641 | Coupled mooring analysis for floating wave energy converters using CFD: Formulation and validation. **2016**, 16, 83-99 | | 58 |
|---|---|---|---|
| 640 | A simple robust and accurate a posteriori sub-cell finite volume limiter for the discontinuous Galerkin method on unstructured meshes. *Journal of Computational Physics*, **2016**, 319, 163-199 | 4.1 | 61 |
| 639 | An efficient and accurate two-stage fourth-order gas-kinetic scheme for the Euler and Navier-Stokes equations. *Journal of Computational Physics*, **2016**, 326, 197-221 | 4.1 | 62 |
| 638 | Discontinuous Galerkin method for the solution of a transport level-set problem. **2016**, 72, 455-480 | | 2 |
| 637 | A conservative semi-Lagrangian HWENO method for the Vlasov equation. *Journal of Computational Physics*, **2016**, 323, 95-114 | 4.1 | 10 |
| 636 | An adjoint method for a high-order discretization of deforming domain conservation laws for optimization of flow problems. *Journal of Computational Physics*, **2016**, 326, 516-543 | 4.1 | 13 |
| 635 | A blended continuous-discontinuous finite element method for solving the multi-fluid plasma model. *Journal of Computational Physics*, **2016**, 326, 56-75 | 4.1 | 11 |
| 634 | Numerical algorithms based on Galerkin methods for the modeling of reactive interfaces in photoelectrochemical (PEC) solar cells. *Journal of Computational Physics*, **2016**, 327, 140-167 | 4.1 | 7 |
| 633 | Discontinuous Galerkin Methods for Time-Dependent Convection Dominated Problems: Basics, Recent Developments and Comparison with Other Methods. **2016**, 371-399 | | 7 |
| 632 | Static Condensation, Hybridization, and the Devising of the HDG Methods. **2016**, 129-177 | | 24 |
| 631 | Tessellated continuum mechanics: A Galerkin finite element method. **2016**, 175, 157-183 | | 1 |
| 630 | Spectral semi-implicit and space-time discontinuous Galerkin methods for the incompressible Navier-Stokes equations on staggered Cartesian grids. **2016**, 110, 41-74 | | 29 |
| 629 | An optimal nearly analytic discrete-weighted Runge-Kutta discontinuous Galerkin hybrid method for acoustic wavefield modeling. **2016**, 81, T251-T263 | | 12 |
| 628 | Continuum Kinetic Study of Magnetized Sheaths for Use in Hall Thrusters. **2016**, | | 1 |
| 627 | On the Convergence of Space-Time Discontinuous Galerkin Schemes for Scalar Conservation Laws. **2016**, 54, 2452-2465 | | 1 |
| 626 | A high order characteristic discontinuous Galerkin scheme for advection on unstructured meshes. *Journal of Computational Physics*, **2016**, 324, 289-302 | 4.1 | 8 |
| 625 | Two-Dimensional Evaluation of ATHAM-Fluidity, a Nonhydrostatic Atmospheric Model Using Mixed Continuous/Discontinuous Finite Elements and Anisotropic Grid Optimization. **2016**, 144, 4349-4372 | | 2 |
| 624 | Improving High-Order Finite Element Approximation Through Geometrical Warping. *AIAA Journal*, **2016**, 54, 3994-4010 | 2.1 | 6 |

| | | | |
|---|---|---|---|
| 623 | Stability, Error Estimate and Limiters of Discontinuous Galerkin Methods. **2016**, 147-171 | | 2 |
| 622 | Application of Discontinuous Galerkin Method for Two-Dimensional Suspended Sediment Transport Based on Meshes of Model. **2016**, | | |
| 621 | Numerical simulation of increasing initial perturbations of a bubble in the bubbleShock interaction problem. **2016**, 48, 061412 | | 2 |
| 620 | Time Discretization Techniques. **2016**, 549-583 | | 1 |
| 619 | Physical modeling of ferroelectric field-effect transistors in the negative capacitance regime. **2016**, | | 12 |
| 618 | High Order Fixed-Point Sweeping WENO Methods for Steady State of Hyperbolic Conservation Laws and Its Convergence Study. **2016**, 20, 835-869 | | 14 |
| 617 | Cell-centered quasi-one-dimensional reconstruction scheme on 3D hybrid meshes. **2016**, 8, 625-637 | | 6 |
| 616 | Discontinuous Galerkin method for two-dimensional bilayer shallow water equations. **2016**, 96, 1-21 | | 2 |
| 615 | Positivity-Preserving High Order Finite Volume HWENO Schemes for Compressible Euler Equations. *Journal of Scientific Computing*, **2016**, 68, 464-483 | 2.3 | 11 |
| 614 | Notes on RKDG Methods for Shallow-Water Equations in Canal Networks. *Journal of Scientific Computing*, **2016**, 68, 1101-1123 | 2.3 | 7 |
| 613 | Correlation between the discontinuous Galerkin method and MUSCL-type schemes. **2016**, 8, 285-300 | | 3 |
| 612 | Implicit filtered PN for high-energy density thermal radiation transport using discontinuous Galerkin finite elements. *Journal of Computational Physics*, **2016**, 321, 624-643 | 4.1 | 22 |
| 611 | Solving the problem of non-stationary filtration of substance by the discontinuous Galerkin method on unstructured grids. **2016**, 56, 977-986 | | 3 |
| 610 | A comparison of coupled and de-coupled simulation procedures for the fatigue analysis of wave energy converter mooring lines. **2016**, 117, 332-345 | | 27 |
| 609 | Progress Towards the Application of the Recovery-Based Disontinuous Galerkin Method to Practical Flow Physics Problems. **2016**, | | 1 |
| 608 | A High-Order Conservative Eulerian Simulation Method for Vortex Dominated Flows. **2016**, | | |
| 607 | Accuracy Enhancement of a Riemann-Solver-Free Spacetime Discontinuous Galerkin Method via Constrained Least Square Reconstruction. **2016**, | | |
| 606 | A Hybridized Discontinuous Galerkin Method for 2D Fractional ConvectionDiffusion Equations. *Journal of Scientific Computing*, **2016**, 68, 826-847 | 2.3 | 11 |

| | | | |
|---|---|---|---|
| 605 | A staggered space–time discontinuous Galerkin method for the three-dimensional incompressible Navier–Stokes equations on unstructured tetrahedral meshes. *Journal of Computational Physics*, **2016**, 319, 294-323 | 4.1 | 52 |
| 604 | An h-Adaptive RKDG Method for the Vlasov–Poisson System. *Journal of Scientific Computing*, **2016**, 69, 1346-1365 | 2.3 | 7 |
| 603 | Non-physical finite element method: Multiple material discontinuities. **2016**, 164, 145-160 | | 8 |
| 602 | Mass-corrections for the conservative coupling of flow and transport on collocated meshes. *Journal of Computational Physics*, **2016**, 305, 319-332 | 4.1 | 7 |
| 601 | Hybridizable discontinuous Galerkin projection methods for Navier–Stokes and Boussinesq equations. *Journal of Computational Physics*, **2016**, 306, 390-421 | 4.1 | 21 |
| 600 | Embedded discontinuous Galerkin transport schemes with localised limiters. *Journal of Computational Physics*, **2016**, 311, 363-373 | 4.1 | 15 |
| 599 | Analysis of the local discontinuous Galerkin method for the drift-diffusion model of semiconductor devices. **2016**, 59, 115-140 | | 19 |
| 598 | Compact high order finite volume method on unstructured grids I: Basic formulations and one-dimensional schemes. *Journal of Computational Physics*, **2016**, 314, 863-882 | 4.1 | 22 |
| 597 | Galerkin method for solving combined radiative and conductive heat transfer. **2016**, 102, 122-136 | | 12 |
| 596 | A discontinuous Galerkin method with a modified penalty flux for the propagation and scattering of acousto-elastic waves. **2016**, 205, 1267-1289 | | 30 |
| 595 | A novel discontinuous Galerkin model for two-phase flow in porous media using an improved IMPES method. **2016**, 26, 284-306 | | 11 |
| 594 | An efficient discontinuous Galerkin method for two-phase flow modeling by conservative velocity projection. **2016**, 26, 63-84 | | 6 |
| 593 | Operator splitting combined with positivity-preserving discontinuous Galerkin method for the chemotaxis model. **2016**, 302, 312-326 | | 8 |
| 592 | An explicit hybridizable discontinuous Galerkin method for the acoustic wave equation. *Computer Methods in Applied Mechanics and Engineering*, **2016**, 300, 748-769 | 5.7 | 38 |
| 591 | An Adaptive Variational Multiscale Discontinuous Galerkin Method For Large Eddy Simulation. **2016**, | | 5 |
| 590 | A Local Sampling Approach to Anisotropic Metric-Based Mesh Optimization. **2016**, | | 3 |
| 589 | A fifth-order finite difference scheme for hyperbolic equations on block-adaptive curvilinear grids. *Journal of Computational Physics*, **2016**, 305, 604-621 | 4.1 | 22 |
| 588 | A positivity preserving and well-balanced DG scheme using finite volume subcells in almost dry regions. **2016**, 272, 259-273 | | 19 |

| 587 | Finite volume approximation of stiff problems on two-dimensional curvilinear domain. **2016**, 93, 1787-1799 | | 1 |
|---|---|---|---|
| 586 | A second-order changing-connectivity ALE scheme and its application to FSI with large convection of fluids and near contact of structures. *Journal of Computational Physics*, **2016**, 304, 380-423 | 4.1 | 10 |
| 585 | Smoothness-Increasing Accuracy-Conserving (SIAC) filters for derivative approximations of discontinuous Galerkin (DG) solutions over nonuniform meshes and near boundaries. **2016**, 294, 275-296 | | 14 |
| 584 | A Simplified Formulation of the Flux Reconstruction Method. *Journal of Scientific Computing*, **2016**, 67, 351-374 | 2.3 | 20 |
| 583 | Thermoelastic Simulations Based on Discontinuous Galerkin Methods: Formulation and Application in Gas Turbines. **2016**, 33, | | 1 |
| 582 | A three-dimensional model for suspended sediment transport based on the compact discontinuous Galerkin method. **2016**, 31, 36-43 | | |
| 581 | To CG or to HDG: A Comparative Study in 3D. *Journal of Scientific Computing*, **2016**, 67, 192-220 | 2.3 | 41 |
| 580 | A Comparison of Artificial Viscosity, Limiters, and Filters, for High Order Discontinuous Galerkin Solutions in Nonlinear Settings. *Journal of Scientific Computing*, **2016**, 66, 406-434 | 2.3 | 8 |
| 579 | A New Multiscale Discontinuous Galerkin Method for the One-Dimensional Stationary Schrödinger Equation. *Journal of Scientific Computing*, **2016**, 66, 321-345 | 2.3 | 6 |
| 578 | Stability analysis and error estimates of local discontinuous Galerkin methods with implicitexplicit time-marching for nonlinear convectiondiffusion problems. **2016**, 272, 237-258 | | 33 |
| 577 | A robust high-order Lagrange-projection like scheme with large time steps for the isentropic Euler equations. **2017**, 135, 493-519 | | 2 |
| 576 | A continuity-preserving and divergence-cleaning algorithm based on purely and damped hyperbolic Maxwell equations in inhomogeneous media. *Journal of Computational Physics*, **2017**, 334, 392-418 | 4.1 | 10 |
| 575 | Discontinuous Galerkin Method for the Study of Active Gurney Flaps. **2017**, 54, 1465-1475 | | 1 |
| 574 | Adaptive multiresolution semi-Lagrangian discontinuous Galerkin methods for the Vlasov equations. *Journal of Computational Physics*, **2017**, 332, 376-417 | 4.1 | 6 |
| 573 | Unsteady Interacting Boundary Layer Method. **2017**, | | 2 |
| 572 | Von Neumann stability analysis of globally divergence-free RKDG schemes for the induction equation using multidimensional Riemann solvers. *Journal of Computational Physics*, **2017**, 336, 104-127 | 4.1 | 29 |
| 571 | An Effcient, High-Order, Hybrid Unstructured and Adaptive Cartesian Mesh Approach for External Aerodynamics. **2017**, | | |
| 570 | Finite-element solutions to the Reynolds Averaged Navier-Stokes equations using a Spalart-Allmaras Turbulence Model. **2017**, | | 3 |

| | | | |
|---|---|---|---|
| 569 | Compact high order finite volume method on unstructured grids III: Variational reconstruction. *Journal of Computational Physics*, **2017**, 337, 1-26 | 4.1 | 49 |
| 568 | An Efficient Implementation of the Divergence Free Constraint in a Discontinuous Galerkin Method for Magnetohydrodynamics on Unstructured Meshes. **2017**, 21, 423-442 | | 4 |
| 567 | Runge-Kutta Discontinuous Galerkin Method with a Simple and Compact Hermite WENO Limiter on Unstructured Meshes. **2017**, 21, 623-649 | | 23 |
| 566 | Continuum kinetic and multi-fluid simulations of classical sheaths. **2017**, 24, 022118 | | 29 |
| 565 | A second-order asymptotic-preserving and positivity-preserving discontinuous Galerkin scheme for the KerrDebye model. **2017**, 27, 549-579 | | 14 |
| 564 | A multidimensional discontinuous Galerkin modeling framework for overland flow and channel routing. **2017**, 102, 142-160 | | 6 |
| 563 | Local Analysis of the Local Discontinuous Galerkin Method with Generalized Alternating Numerical Flux for One-Dimensional Singularly Perturbed Problem. *Journal of Scientific Computing*, **2017**, 72, 792-819 | 2.3 | 17 |
| 562 | RungeKutta discontinuous Galerkin methods for the special relativistic magnetohydrodynamics. *Journal of Computational Physics*, **2017**, 343, 33-72 | 4.1 | 14 |
| 561 | Mixed Methods for Two-Phase Darcy--Stokes Mixtures of Partially Melted Materials with Regions of Zero Porosity. **2017**, 39, B375-B402 | | 5 |
| 560 | Hybrid Galerkin numerical modelling of elastodynamics and compressible NavierStokes couplings: applications to seismo-gravito acoustic waves. **2017**, 210, 1047-1069 | | 9 |
| 559 | Comparison of continuous and discontinuous finite element methods for parabolic differential equations employing implicit time integration. **2017**, 18, 182-190 | | |
| 558 | An h-Adaptive RKDG Method for the Two-Dimensional Incompressible Euler Equations and the Guiding Center Vlasov Model. *Journal of Scientific Computing*, **2017**, 73, 1316-1337 | 2.3 | 6 |
| 557 | A discontinuous finite element suspended sediment transport model for water quality assessments in river networks. **2017**, 31, 1804-1816 | | 2 |
| 556 | Implicit-explicit and explicit projection schemes for the unsteady incompressible NavierStokes equations using a high-order dG method. **2017**, 154, 285-295 | | 4 |
| 555 | Semi-implicit discontinuous Galerkin methods for the incompressible NavierStokes equations on adaptive staggered Cartesian grids. *Computer Methods in Applied Mechanics and Engineering*, **2017**, 324, 170-203 | 5.7 | 25 |
| 554 | High-order discontinuous Galerkin method for applications to multicomponent and chemically reacting flows. **2017**, 33, 486-499 | | 7 |
| 553 | Characteristic Local Discontinuous Galerkin Methods for Incompressible Navier-Stokes Equations. **2017**, 22, 202-227 | | 1 |
| 552 | High order spectral difference lattice Boltzmann method for incompressible hydrodynamics. *Journal of Computational Physics*, **2017**, 345, 618-636 | 4.1 | 9 |

| 551 | Error Minimization via Metric-Based Curved-Mesh Adaptation. **2017**, | | 0 |
|---|---|---|---|
| 550 | Energetically Optimal Flapping Flight via a Fully Discrete Adjoint Method with Explicit Treatment of Flapping Frequency. **2017**, | | 2 |
| 549 | Optimal non-dissipative discontinuous Galerkin methods for Maxwells equations in Drude metamaterials. **2017**, 73, 1760-1780 | | 28 |
| 548 | An Enhanced Smoothing Algorithm for MPM to Stabilize Hydrodynamic Impact Problems with Embedded Solids. **2017**, 175, 157-164 | | |
| 547 | A Dynamic $p$ -Adaptive DGTD Algorithm for Electromagnetic and Multiphysics Simulations. **2017**, 65, 2446-2459 | | 12 |
| 546 | A Discontinuous Galerkin Time-Domain Method With Dynamically Adaptive Cartesian Mesh for Computational Electromagnetics. **2017**, 65, 3122-3133 | | 13 |
| 545 | Modification of Flux Correction method for accuracy improvement on unsteady problems. *Journal of Computational Physics*, **2017**, 338, 199-216 | 4.1 | 12 |
| 544 | A coupled continuous and discontinuous finite element method for the incompressible flows. **2017**, 84, 477-493 | | 6 |
| 543 | A fully coupled hybrid computational aeroacoustics method on hierarchical Cartesian meshes. **2017**, 144, 137-153 | | 13 |
| 542 | A parallel implementation of an implicit discontinuous Galerkin finite element scheme for fluid flow problems. **2017**, 113, 108-119 | | 3 |
| 541 | Explicit discontinuous spectral element method with entropy generation based artificial viscosity for shocked viscous flows. *Journal of Computational Physics*, **2017**, 332, 99-117 | 4.1 | 19 |
| 540 | Discontinuous Galerkin Methods for Weakly Coupled Hyperbolic MultiDomain Problems. **2017**, 39, A2201-A2230 | | |
| 539 | A Unified Framework for Modeling Continuum and Rarefied Gas Flows. **2017**, 7, 13108 | | 15 |
| 538 | Is Discontinuous Reconstruction Really a Good Idea?. *Journal of Scientific Computing*, **2017**, 73, 1094-1114 | 4.3 | 10 |
| 537 | An arbitrary-order RungeKutta discontinuous Galerkin approach to reinitialization for banded conservative level sets. *Journal of Computational Physics*, **2017**, 349, 453-473 | 4.1 | 6 |
| 536 | A hybrid parallel algorithm for solving euler equation using explicit RKDG method based on OpenFOAM. **2017**, | | |
| 535 | IMEX time marching for discontinuous Galerkin methods. **2017**, | | 0 |
| 534 | Local Discontinuous Galerkin Methods for the KhokhlovZabolotskayaKuznetzov Equation. *Journal of Scientific Computing*, **2017**, 73, 593-616 | 2.3 | 4 |

| | | | |
|---|---|---|---|
| 533 | Runge-Kutta Central Discontinuous Galerkin Methods for the Special Relativistic Hydrodynamics. **2017**, 22, 643-682 | | 6 |
| 532 | An Arbitrary Lagrangian-Eulerian Local Discontinuous Galerkin Method for Hamilton-Jacobi Equations. *Journal of Scientific Computing*, **2017**, 73, 906-942 | 2.3 | 12 |
| 531 | A High-Order Method for Weakly Compressible Flows. **2017**, 22, 1150-1174 | | 8 |
| 530 | Space-Time adaptive ADER-DG schemes for dissipative flows: Compressible Navier-Stokes and resistive MHD equations. **2017**, 220, 297-318 | | 36 |
| 529 | Globally Conservative, Hybrid Self-Adjoint Angular Flux and Least-Squares Method Compatible with Voids. **2017**, 185, 294-306 | | 12 |
| 528 | Multi-Dimensional Filtering: Reducing the Dimension Through Rotation. **2017**, 39, A2179-A2200 | | 11 |
| 527 | MultiLevel Local Time-Stepping Methods of Runge--Kutta-type for Wave Equations. **2017**, 39, A2020-A2048 | | 5 |
| 526 | An hp-adaptive discontinuous Galerkin method for modelling snap loads in mooring cables. **2017**, 144, 266-276 | | 24 |
| 525 | A New Family of Discontinuous Galerkin Schemes for Diffusion Problems. **2017**, | | 4 |
| 524 | Continuum kinetic simulations of magnetized sheaths in Hall thrusters with secondary electron emission. **2017**, | | 0 |
| 523 | Multiscale Structure Simulation Using Adaptive Mesh in DGTD Method. **2017**, 2, 115-123 | | 4 |
| 522 | A Riemann-solver-free Runge-Kutta Discontinuous Galerkin Method for Conservation Laws. **2017**, | | 0 |
| 521 | A type of high order schemes for steady convection-diffusion problems. **2017**, 107, 1044-1053 | | 6 |
| 520 | Discontinuous Legendre wavelet Galerkin method for reaction-diffusion equation. **2017**, 94, 1806-1832 | | 0 |
| 519 | A Runge-Kutta discontinuous Galerkin scheme for hyperbolic conservation laws with discontinuous fluxes. **2017**, 292, 309-319 | | 7 |
| 518 | Efficient Parallelization of a Shock Capturing for Discontinuous Galerkin Methods using Finite Volume Sub-cells. *Journal of Scientific Computing*, **2017**, 70, 1262-1289 | 2.3 | 41 |
| 517 | Monotonicity-preserving finite element schemes based on differentiable nonlinear stabilization. *Computer Methods in Applied Mechanics and Engineering*, **2017**, 313, 133-158 | 5.7 | 34 |
| 516 | High-order local discontinuous Galerkin method combined with WSGD-approximation for a fractional subdiffusion equation. **2017**, 73, 1298-1314 | | 36 |

| 515 | The Highest Superconvergence Analysis of ADG Method for Two Point Boundary Values Problem. *Journal of Scientific Computing*, **2017**, 70, 175-191 | 2.3 | |
| 514 | Discontinuous Galerkin methods for Hamiltonian ODEs and PDEs. *Journal of Computational Physics*, **2017**, 330, 340-364 | 4.1 | 15 |
| 513 | Error estimates to smooth solutions of semi-discrete discontinuous Galerkin methods with quadrature rules for scalar conservation laws. **2017**, 33, 467-488 | | 8 |
| 512 | Direct Discontinuous Galerkin Method and Its Variations for Second Order Elliptic Equations. *Journal of Scientific Computing*, **2017**, 70, 744-765 | 2.3 | 3 |
| 511 | Nonlinear saturation of the Weibel instability. **2017**, 24, 112116 | | 10 |
| 510 | Stability analysis and error estimates of Lax Wendroff discontinuous Galerkin methods for linear conservation laws. **2017**, 51, 1063-1087 | | 3 |
| 509 | Stability analysis and error estimates of local discontinuous Galerkin methods with implicit-explicit time-marching for the time-dependent fourth order PDEs. **2017**, 51, 1931-1955 | | 6 |
| 508 | Aerodynamics. **2017**, 1-107 | | |
| 507 | Numerical Methods for Hyperbolic Nets and Networks. **2017**, 435-463 | | 1 |
| 506 | An Adaptive Visualization Tool for High Order Discontinuous Galerkin Method with Quadratic Elements. **2017**, | | 0 |
| 505 | Numerical scheme of the second order of accuracy for vortex methods for incompressible flow simulation around airfoils. **2017**, 60, 398-405 | | 15 |
| 504 | Application of the adjoint approach to optimise the initial conditions of a turbidity current with the AdjointTurbidity 1.0 model. **2017**, 10, 1051-1068 | | 3 |
| 503 | Discontinuous Galerkin Methods for Computational Fluid Dynamics. **2017**, 1-63 | | 2 |
| 502 | An Improved Eulerian Approach for the Finite Time Lyapunov Exponent. *Journal of Scientific Computing*, **2018**, 76, 1407-1435 | 2.3 | 6 |
| 501 | A comparison of refinement indicators for p-adaptive discontinuous Galerkin methods for the Euler and Navier-Stokes equations. **2018**, | | 2 |
| 500 | Sparse representation of delay differential equation of Pantograph type using multi-wavelets Galerkin method. **2018**, 35, 887-903 | | 17 |
| 499 | High order well-balanced discontinuous Galerkin methods for Euler equations at isentropic equilibrium state under gravitational fields. **2018**, 329, 23-37 | | 1 |
| 498 | Generalised summation-by-parts operators and variable coefficients. *Journal of Computational Physics*, **2018**, 362, 20-48 | 4.1 | 18 |

| 497 | On the convergence of iterative solvers for polygonal discontinuous Galerkin discretizations. **2018**, 13, 27-51 | | 1 |
| 496 | An artificial neural network as a troubled-cell indicator. *Journal of Computational Physics*, **2018**, 367, 166-191 | 4.1 | 43 |
| 495 | Development of a finite element/discontinuous Galerkin/level set approach for the simulation of incompressible two phase flow. **2018**, 118, 45-59 | | 4 |
| 494 | An optimization-based approach for high-order accurate discretization of conservation laws with discontinuous solutions. *Journal of Computational Physics*, **2018**, 365, 105-134 | 4.1 | 25 |
| 493 | Optimal Error Estimates of the Semidiscrete Central Discontinuous Galerkin Methods for Linear Hyperbolic Equations. **2018**, 56, 520-541 | | 5 |
| 492 | An Optimization Based Discontinuous Galerkin Approach for High-Order Accurate Shock Tracking. **2018**, | | 4 |
| 491 | High-Order Numerical Schemes for One-Dimensional Nonlocal Conservation Laws. **2018**, 40, A288-A305 | | 11 |
| 490 | HDG-NEFEM with Degree Adaptivity for Stokes Flows. *Journal of Scientific Computing*, **2018**, 77, 1953-1980 | 2.3 | 17 |
| 489 | Simulation of dryout phenomenon and transient heat transfer performance of the once-through steam generator based on heat transfer partition. **2018**, 115, 268-279 | | 6 |
| 488 | Numerical dispersion analysis of discontinuous Galerkin method with different basis functions for acoustic and elastic wave equations. **2018**, 83, T87-T101 | | 8 |
| 487 | Application of discontinuous Galerkin method for solving a compressible five-equation two-phase flow model. **2018**, 8, 379-390 | | 5 |
| 486 | A Compact Discontinuous Galerkin Method for Advection-Diffusion Problems. **2018**, | | 3 |
| 485 | Optimal error estimate of conservative local discontinuous Galerkin method for nonlinear Schrödinger equation. **2018**, 127, 164-178 | | 14 |
| 484 | Linear and nonlinear ultrasound simulations using the discontinuous Galerkin method. **2018**, 143, 2438 | | 2 |
| 483 | Staggered discontinuous Galerkin methods for the incompressible NavierßStokes equations: Spectral analysis and computational results. **2018**, 25, e2151 | | 9 |
| 482 | Shock Regularization with Smoothness-Increasing Accuracy-Conserving Dirac-Delta Polynomial Kernels. *Journal of Scientific Computing*, **2018**, 77, 579-596 | 2.3 | 5 |
| 481 | Local discontinuous Galerkin methods with explicit Runge-Kutta time marching for nonlinear carburizing model. **2018**, 41, 4376-4390 | | 2 |
| 480 | An ADER discontinuous Galerkin method with local time-stepping for transient electromagnetics. **2018**, 229, 106-115 | | 6 |

| 479 | Strong Stability Preserving Explicit Peer Methods for Discontinuous Galerkin Discretizations. *Journal of Scientific Computing*, **2018**, 75, 1057-1078 | 2.3 | 2 |
|---|---|---|---|
| 478 | The discontinuous Galerkin spectral element methods for compressible flows on two-dimensional mixed grids. *Journal of Computational Physics*, **2018**, 364, 314-346 | 4.1 | 6 |
| 477 | Study of flow over object problems by a nodal discontinuous Galerkin-lattice Boltzmann method. **2018**, 30, 040903 | | 9 |
| 476 | Improvement of the computational performance of a parallel unstructured WENO finite volume CFD code for Implicit Large Eddy Simulation. **2018**, 173, 157-170 | | 17 |
| 475 | One-Dimensional Dissipative Boltzmann Equation: Measure Solutions, Cooling Rate, and Self-Similar Profile. **2018**, 50, 1278-1321 | | 5 |
| 474 | On the use of a high-order discontinuous Galerkin method for DNS and LES of wall-bounded turbulence. **2018**, 176, 320-337 | | 17 |
| 473 | Study of Flux Limiters to Minimize the Numerical Dissipation Based on Entropy-Consistent Scheme. **2018**, 34, 135-149 | | 2 |
| 472 | A discontinuous Galerkin method for nonlinear parabolic equations and gradient flow problems with interaction potentials. *Journal of Computational Physics*, **2018**, 352, 76-104 | 4.1 | 25 |
| 471 | Discontinuous Galerkin algorithms for fully kinetic plasmas. *Journal of Computational Physics*, **2018**, 353, 110-147 | 4.1 | 51 |
| 470 | Hybrid DG/FV schemes for magnetohydrodynamics and relativistic hydrodynamics. **2018**, 222, 113-135 | | 9 |
| 469 | Well-balanced discontinuous Galerkin method and finite volume WENO scheme based on hydrostatic reconstruction for blood flow model in arteries. **2018**, 86, 491-508 | | 4 |
| 468 | Flux-corrected dispersion-improved CABARET schemes for linear and nonlinear wave propagation problems. **2018**, 169, 111-128 | | 10 |
| 467 | Anisotropic goal-oriented error analysis for a third-order accurate CENO Euler discretization. **2018**, 86, 392-413 | | 3 |
| 466 | On underresolved simulations of compressible turbulence using an entropy-bounded DG method: Solution stabilization, scheme optimization, and benchmark against a finite-volume solver. **2018**, 161, 89-106 | | 6 |
| 465 | A high-order discontinuous Galerkin method for 1D wave propagation in a nonlinear heterogeneous medium. *Journal of Computational Physics*, **2018**, 355, 191-213 | 4.1 | 5 |
| 464 | Variational multiscale modeling with discontinuous subscales: analysis and application to scalar transport. **2018**, 53, 1241-1269 | | 9 |
| 463 | High order well-balanced discontinuous Galerkin methods based on hydrostatic reconstruction for shallow water equations. **2018**, 340, 546-560 | | 11 |
| 462 | Weighted interior penalty discretization of fully nonlinear and weakly dispersive free surface shallow water flows. *Journal of Computational Physics*, **2018**, 355, 285-309 | 4.1 | 4 |

| | | | |
|---|---|---|---|
| 461 | Numerical and experimental study of fluid flow in simplified blade cascade with prescribed harmonic motion. **2018**, 180, 02116 | | 1 |
| 460 | Numerical simulation of fluid flow through simplified blade cascade with prescribed harmonic motion using discontinuous Galerkin method. **2018**, 180, 02117 | | 1 |
| 459 | Parallel discontinuous Galerkin FEM for computing hyperbolic conservation law on unstructured grids. **2018**, | | |
| 458 | Efficient Implementation of ADER Discontinuous Galerkin Schemes for a Scalable Hyperbolic PDE Engine. **2018**, 7, 63 | | 24 |
| 457 | The computational study in the unloading slot of the control valve. **2018**, 180, 02070 | | 1 |
| 456 | Error estimates of the third order runge-kutta alternating evolution discontinuous galerkin method for convection-diffusion problems. **2018**, 52, 1709-1732 | | 1 |
| 455 | Comparison of WENO and HWENO limiters for the RKDG method implementation. **2018**, | | 1 |
| 454 | Numerical Simulation of Hypersonic Rarefied Flows Using the Second-Order Constitutive Model of the Boltzmann Equation. **2018**, | | 2 |
| 453 | A Fast Distributed Data-Assimilation Algorithm for Divergence-Free Advection. **2018**, 40, A3038-A3066 | | 1 |
| 452 | A High-Order Discontinuous Galerkin Method for Coupled Wave Propagation in 1D Elastoplastic Heterogeneous Media. **2018**, 26, 1850043 | | 1 |
| 451 | High order finite-volume WENO scheme for five-equation model of compressible two-fluid flow. **2018**, 76, 2648-2664 | | 4 |
| 450 | Carrier Transport and Molecular Displacement Modulated dc Electrical Breakdown of Polypropylene Nanocomposites. **2018**, 10, | | 16 |
| 449 | A Conservative Discontinuous Galerkin Solver for the Space Homogeneous Boltzmann Equation for Binary Interactions. **2018**, 56, 3040-3070 | | 3 |
| 448 | An object-oriented framework for multiphysics problems combining different approximation spaces. **2018**, 151, 34-49 | | 3 |
| 447 | Density predictions using a finite element/level set model of polyurethane foam expansion and polymerization. **2018**, 175, 20-35 | | 7 |
| 446 | Higher-order temporal integration for the incompressible NavierStokes equations in bounded domains. *Journal of Computational Physics*, **2018**, 375, 797-822 | 4.1 | 6 |
| 445 | Low-Mach number treatment for Finite-Volume schemes on unstructured meshes. **2018**, 336, 368-393 | | 9 |
| 444 | Smoothing algorithm for stabilization of the material point method for fluidSolid interaction problems. *Computer Methods in Applied Mechanics and Engineering*, **2018**, 342, 177-199 | 5.7 | 11 |

| 443 | A comparative study of limiting strategies in discontinuous Galerkin schemes for the M1 model of radiation transport. **2018**, 342, 399-418 | | 5 |

| 442 | Discontinuous Galerkin methods for a kinetic model of self-organized dynamics. **2018**, 28, 1171-1197 | | o |

| 441 | A unified variational framework for the space discontinuous Galerkin method for elastic wave propagation in anisotropic and piecewise homogeneous media. *Computer Methods in Applied Mechanics and Engineering*, **2018**, 338, 299-332 | 5.7 | 5 |

| 440 | Comparative Fourier Analysis of DG, FD and Compact Difference schemes. **2018**, | | 4 |

| 439 | Local Discontinuous Galerkin Methods for the Two-Dimensional CamassaHolm Equation. **2018**, 6, 359-388 | | o |

| 438 | Fourier analysis and evaluation of DG, FD and compact difference methods for conservation laws. *Journal of Computational Physics*, **2018**, 373, 835-862 | 4.1 | 23 |

| 437 | High-order compact finite volume methods on unstructured grids with adaptive mesh refinement for solving inviscid and viscous flows. **2018**, 31, 1829-1841 | | 4 |

| 436 | The BR1 Scheme is Stable for the Compressible NavierStokes Equations. *Journal of Scientific Computing*, **2018**, 77, 154-200 | 2.3 | 45 |

| 435 | Dynamic analysis of a class of neutral delay model based on the Runge-Kutta algorithm. **2018**, 2018, | | |

| 434 | Discontinuous Galerkin methods for Maxwell equations in Drude metamaterials on unstructured meshes. **2018**, 342, 147-163 | | 9 |

| 433 | Galerkin methods for BoltzmannPoisson transport with reflection conditions on rough boundaries. *Journal of Computational Physics*, **2018**, 363, 302-328 | 4.1 | 2 |

| 432 | hp discontinuous Galerkin methods for parametric, wind-driven water wave models. **2018**, 119, 70-83 | | 4 |

| 431 | Hall thruster relevant continuum kinetic sheaths simulations with self-consistent secondary electron emission. **2018**, | | |

| 430 | Coupling methods between finite elementbased Boussinesq-type wave and particle-based free-surface flow models. **2018**, 88, 141-168 | | o |

| 429 | On Alternative Setups of the Double Mach Reflection Problem. *Journal of Scientific Computing*, **2019**, 78, 1291-1303 | 2.3 | 11 |

| 428 | An Alternative Formulation of Discontinous Galerkin Schemes for Solving HamiltonJacobi Equations. *Journal of Scientific Computing*, **2019**, 78, 1023-1044 | 2.3 | 1 |

| 427 | A posteriori analysis of an IMEX entropy-viscosity formulation for hyperbolic conservation laws with dissipation. **2019**, 135, 129-142 | | 5 |

| 426 | Output-Based Mesh Optimization for the Embedded Discontinuous Galerkin Method. **2019**, | | |

| | | | |
|---|---|---|---|
| 425 | An accuracy preserving limiter for the high-order discontinuous Galerkin method on unstructured grids. **2019**, 192, 104253 | | 1 |
| 424 | The compact gradient recovery discontinuous Galerkin method for diffusion problems. *Journal of Computational Physics*, **2019**, 398, 108872 | 4.1 | 4 |
| 423 | High-order discontinuous Galerkin methods for coastal hydrodynamics applications. *Computer Methods in Applied Mechanics and Engineering*, **2019**, 355, 860-899 | 5.7 | 5 |
| 422 | High-order implicit palindromic discontinuous Galerkin method for kinetic-relaxation approximation. **2019**, 190, 485-502 | | 7 |
| 421 | A discontinuous Galerkin immersed boundary solver for compressible flows: Adaptive local time stepping for artificial viscosityБased shock-capturing on cut cells. **2019**, 91, 448-472 | | 6 |
| 420 | Detecting troubled-cells on two-dimensional unstructured grids using a neural network. *Journal of Computational Physics*, **2019**, 397, 108845 | 4.1 | 15 |
| 419 | Compact high order finite volume method on unstructured grids IV: Explicit multi-step reconstruction schemes on compact stencil. *Journal of Computational Physics*, **2019**, 396, 161-192 | 4.1 | 7 |
| 418 | The L$^2$-norm Stability Analysis of Runge--Kutta Discontinuous Galerkin Methods for Linear Hyperbolic Equations. **2019**, 57, 1574-1601 | | 8 |
| 417 | Implicit discontinuous Galerkin scheme for shallow water equations. **2019**, 33, 3301-3310 | | 4 |
| 416 | Stochastic Discontinuous Galerkin Methods (SDGM) based on fluctuation-dissipation balance. **2019**, 4, 100068 | | 2 |
| 415 | Discontinuous Galerkin method for solving incompressible two-phase shallow granular flow model. **2019**, 11, 168781401987490 | | 1 |
| 414 | Aerodynamic Shape Optimization for the NURBS-Enhanced Discontinuous Galerkin Method. **2019**, | | 1 |
| 413 | An immersed discontinuous Galerkin method for compressible Navier-Stokes equations on unstructured meshes. **2019**, 91, 487-508 | | 4 |
| 412 | thornado-hydro: towards discontinuous Galerkin methods for supernova hydrodynamics. **2019**, 1225, 012014 | | 3 |
| 411 | Two-dimensional Boussinesq equations applied to channel flows: deducing and applying the equations. **2019**, 24, | | |
| 410 | Symplectic interior penalty discontinuous Galerkin method for solving the seismic scalar wave equation. **2019**, 84, T133-T145 | | 6 |
| 409 | A high-order hybridizable discontinuous Galerkin method with fast convergence to steady-state solutions of the gas kinetic equation. *Journal of Computational Physics*, **2019**, 376, 973-991 | 4.1 | 10 |
| 408 | Strong Stability of Explicit Runge--Kutta Time Discretizations. **2019**, 57, 1158-1182 | | 13 |

| | | | |
|---|---|---|---|
| 407 | Local discontinuous Galerkin methods with implicit-explicit multistep time-marching for solving the nonlinear Cahn-Hilliard equation. *Journal of Computational Physics*, **2019**, 394, 719-731 | 4.1 | 10 |
| 406 | A high-order Runge-Kutta discontinuous Galerkin method with a subcell limiter on adaptive unstructured grids for two-dimensional compressible inviscid flows. **2019**, 91, 367-394 | | 7 |
| 405 | Optimal stabilization and time step constraints for the forward Euler-Local Discontinuous Galerkin method applied to fractional diffusion equations. *Journal of Computational Physics*, **2019**, 394, 503-521 | 4.1 | 3 |
| 404 | Optimal energy-conserving discontinuous Galerkin methods for linear symmetric hyperbolic systems. *Journal of Computational Physics*, **2019**, 394, 329-363 | 4.1 | 5 |
| 403 | (Multi)wavelets increase both accuracy and efficiency of standard Godunov-type hydrodynamic models. **2019**, 129, 31-55 | | 5 |
| 402 | A High Order Positivity Preserving DG Method for Coagulation-Fragmentation Equations. **2019**, 41, B448-B465 | | 4 |
| 401 | High-order curvilinear mesh generation technique based on an improved radius basic function approach. **2019**, 91, 97-111 | | 2 |
| 400 | Smoothness-Increasing Accuracy-Conserving (SIAC) Filtering for Discontinuous Galerkin Solutions over Nonuniform Meshes: Superconvergence and Optimal Accuracy. *Journal of Scientific Computing*, **2019**, 81, 1150-1180 | 2.3 | 6 |
| 399 | Sparse Grid Central Discontinuous Galerkin Method for Linear Hyperbolic Systems in High Dimensions. **2019**, 41, A1626-A1651 | | 2 |
| 398 | A discontinuous Galerkin fast spectral method for the multi-species Boltzmann equation. *Computer Methods in Applied Mechanics and Engineering*, **2019**, 352, 56-84 | 5.7 | 7 |
| 397 | Performance Comparison of HPX Versus Traditional Parallelization Strategies for the Discontinuous Galerkin Method. *Journal of Scientific Computing*, **2019**, 80, 878-902 | 2.3 | 4 |
| 396 | A stabilized mixed discontinuous Galerkin formulation for double porosity/permeability model. *Computer Methods in Applied Mechanics and Engineering*, **2019**, 352, 508-560 | 5.7 | 4 |
| 395 | Dispersion dissipation analysis of the triangle-based discontinuous Galerkin method for scalar wave equation. **2019**, 218, 1174-1198 | | 8 |
| 394 | Fast and accurate simulations of shallow water equations in large networks. **2019**, 78, 2107-2126 | | 1 |
| 393 | A new model of shoaling and breaking waves. Part 2. Run-up and two-dimensional waves. **2019**, 867, 146-194 | | 5 |
| 392 | A high-order discontinuous Galerkin method for the incompressible Navier-Stokes equations on arbitrary grids. **2019**, 90, 217-246 | | 4 |
| 391 | Two-dimensional simulations and experiments of homogenization and Kirkendall effect in single-phase diffusion triples. **2019**, 790, 871-883 | | 4 |
| 390 | Comparison of hybrid and standard discontinuous Galerkin methods in a mesh-optimisation setting. **2019**, 33, 34-42 | | 4 |

| | | | |
|---|---|---|---|
| 389 | An Advanced EM-Plasma Simulator Based on the DGTD Algorithm With Dynamic Adaptation and Multirate Time Integration Techniques. **2019**, 4, 76-87 | | 3 |
| 388 | A third order gas-kinetic scheme for unstructured grid. **2019**, 78, 92-109 | | 2 |
| 387 | Realizability-preserving DG-IMEX method for the two-moment model of fermion transport. *Journal of Computational Physics*, **2019**, 389, 62-93 | 4.1 | 9 |
| 386 | Multiscale Polynomial-Based High-Order Central High Resolution Schemes. *Journal of Scientific Computing*, **2019**, 80, 555-613 | 2.3 | 3 |
| 385 | A parabolic level set reinitialisation method using a discontinuous Galerkin discretisation. **2019**, 78, 2944-2960 | | 0 |
| 384 | o3o3: A Variant of Spectral Elements with a Regular Collocation Grid. **2019**, 147, 2067-2082 | | 7 |
| 383 | The Recovered space advection scheme for lowest-order compatible finite element methods. *Journal of Computational Physics*, **2019**, 390, 342-358 | 4.1 | 2 |
| 382 | Stability analysis and error estimates of arbitrary Lagrangian Eulerian discontinuous Galerkin method coupled with Runge Kutta time-marching for linear conservation laws. **2019**, 53, 105-144 | | 6 |
| 381 | Analysis and Entropy Stability of the Line-Based Discontinuous Galerkin Method. *Journal of Scientific Computing*, **2019**, 80, 376-402 | 2.3 | 14 |
| 380 | A stabilized nodal spectral solver for liquid chromatography models. **2019**, 124, 172-183 | | 3 |
| 379 | A nodal discontinuous Galerkin finite element method for the poroelastic wave equation. **2019**, 23, 595-615 | | 7 |
| 378 | Finite element modeling of near-wall mass transport in cardiovascular flows. **2019**, 35, e3148 | | 7 |
| 377 | Variational Entropic Regularization of the Discontinuous Galerkin Method for Gasdynamic Equations. **2019**, 11, 1032-1040 | | 3 |
| 376 | A nonlinear SUPG method for hyperbolic conservation laws. **2019**, | | |
| 375 | Output-Based Mesh Adaptation for Variable-Fidelity Multipoint Aerodynamic Optimization. **2019**, | | |
| 374 | RKDG method for 2D gas dynamics simulation on uniform rectangular meshes. **2019**, 1348, 012098 | | 0 |
| 373 | Runge-Kutta Discontinuous Galerkin Method and DiamondTorre GPGPU Algorithm for Effective Simulation of Large 3D Multiphase Fluid Flows with Shocks. **2019**, | | 1 |
| 372 | Superconvergence of Arbitrary Lagrangian--Eulerian Discontinuous Galerkin Methods for Linear Hyperbolic Equations. **2019**, 57, 2142-2165 | | 5 |

| | | | |
|---|---|---|---|
| 371 | High-order hybridisable discontinuous Galerkin method for the gas kinetic equation. **2019**, 33, 335-342 | | 1 |
| 370 | Local Discontinuous Galerkin Methods with Generalized Alternating Numerical Fluxes for Two-dimensional Linear Sobolev Equation. *Journal of Scientific Computing*, **2019**, 78, 1660-1690 | 2.3 | 1 |
| 369 | A posteriori sub-cell finite volume limiting of staggered semi-implicit discontinuous Galerkin schemes for the shallow water equations. **2019**, 135, 443-480 | | 9 |
| 368 | A High Order Semi-Lagrangian Discontinuous Galerkin Method for the Two-Dimensional Incompressible Euler Equations and the Guiding Center Vlasov Model Without Operator Splitting. *Journal of Scientific Computing*, **2019**, 79, 1111-1134 | 2.3 | 8 |
| 367 | A direct discontinuous Galerkin method for the incompressible Navier⊠Stokes equations on arbitrary grids. *Journal of Computational Physics*, **2019**, 380, 269-294 | 4.1 | 13 |
| 366 | A high-order and interface-preserving discontinuous Galerkin method for level-set reinitialization. *Journal of Computational Physics*, **2019**, 378, 634-664 | 4.1 | 4 |
| 365 | A low Mach correction able to deal with low Mach acoustics. *Journal of Computational Physics*, **2019**, 378, 723-759 | 4.1 | 6 |
| 364 | An anisotropic a priori error analysis for a convection-dominated diffusion problem using the HDG method. *Computer Methods in Applied Mechanics and Engineering*, **2019**, 345, 382-401 | 5.7 | 4 |
| 363 | Implicit method and slope limiter in AHMR procedure for high order discontinuous Galerkin methods for compressible flows. **2019**, 72, 371-391 | | 1 |
| 362 | A study of DG methods for diffusion using the combined-mode analysis. **2019**, | | 1 |
| 361 | A high order scheme for unsteady heat conduction equations. **2019**, 348, 565-574 | | 3 |
| 360 | A variable high-order shock-capturing finite difference method with GP-WENO. *Journal of Computational Physics*, **2019**, 381, 189-217 | 4.1 | 6 |
| 359 | An Optimization-Based Discontinuous Galerkin Approach for High-Order Accurate Shock Tracking with Guaranteed Mesh Quality. **2019**, | | |
| 358 | High-order wall-resolved large eddy simulation of transonic buffet on the OAT15A airfoil. **2019**, | | 2 |
| 357 | The local discontinuous Galerkin method for 2D nonlinear time-fractional advection⊠diffusion equations. **2019**, 35, 1317-1332 | | 9 |
| 356 | A high-order elliptic PDE based level set reinitialisation method using a discontinuous Galerkin discretisation. *Journal of Computational Physics*, **2019**, 379, 373-391 | 4.1 | 5 |
| 355 | Numerical boundary conditions in Finite Volume and Discontinuous Galerkin schemes for the simulation of rarefied flows along solid boundaries. **2019**, 159, 136-153 | | 1 |
| 354 | von Neumann stability analysis of globally constraint-preserving DGTD and PNPM schemes for the Maxwell equations using multidimensional Riemann solvers. *Journal of Computational Physics*, **2019**, 376, 1108-1137 | 4.1 | 12 |

| | | | |
|---|---|---|---|
| 353 | A comparison of refinement indicators for p-adaptive simulations of steady and unsteady flows using discontinuous Galerkin methods. *Journal of Computational Physics*, **2019**, 376, 508-533 | 4.1 | 15 |
| 352 | Optimal error estimate of the local discontinuous Galerkin methods based on the generalized alternating numerical fluxes for nonlinear convection‐diffusion equations. *Numerical Algorithms*, **2019**, 80, 1329-1359 | 2.1 | 1 |
| 351 | Discontinuous Galerkin Methods for Compressible and Incompressible Flows on Space‐Time Adaptive Meshes: Toward a Novel Family of Efficient Numerical Methods for Fluid Dynamics. **2020**, 27, 199-283 | | 9 |
| 350 | A posteriori error analysis for random scalar conservation laws using the stochastic Galerkin method. **2020**, 40, 1094-1121 | | 2 |
| 349 | Local discontinuous Galerkin methods with explicit-implicit-null time discretizations for solving nonlinear diffusion problems. **2020**, 63, 183-204 | | 11 |
| 348 | An enhanced transient solver with dynamic p-adaptation and multirate time integration for electromagnetic and multiphysics simulations. **2020**, 33, e2626 | | |
| 347 | The local discontinuous Galerkin method for convection-diffusion-fractional anti-diffusion equations. **2020**, 148, 61-78 | | 5 |
| 346 | L2-stability analysis of IMEX-(ﬂDG schemes for linear advection-diffusion equations. **2020**, 147, 43-65 | | 1 |
| 345 | Entropic quadrature for moment approximations of the Boltzmann-BGK equation. *Journal of Computational Physics*, **2020**, 401, 108992 | 4.1 | 9 |
| 344 | A simple, high-order and compact WENO limiter for RKDG method. **2020**, 79, 317-336 | | 5 |
| 343 | A new very high-order upwind directional multi-layer compact (DMLC) scheme for multi-dimensional flows. **2020**, 197, 104356 | | |
| 342 | Stability properties of the Discontinuous Galerkin Material Point Method for hyperbolic problems in one and two space dimensions. **2020**, 121, 664-689 | | 3 |
| 341 | Output-based mesh optimization for hybridized and embedded discontinuous Galerkin methods. **2020**, 121, 867-887 | | 3 |
| 340 | A high order least square-based finite difference-finite volume method with lattice Boltzmann flux solver for simulation of incompressible flows on unstructured grids. *Journal of Computational Physics*, **2020**, 401, 109019 | 4.1 | 10 |
| 339 | An r-Adaptive, High-Order Discontinuous Galerkin Method for Flows with Attached Shocks. **2020**, | | 1 |
| 338 | A p -adaptive Discontinuous Galerkin Method for Compressible Flows Using Charm++. **2020**, | | 1 |
| 337 | A p-weighted limiter for the discontinuous Galerkin method on one-dimensional and two-dimensional triangular grids. *Journal of Computational Physics*, **2020**, 407, 109246 | 4.1 | 4 |
| 336 | Implementation and evaluation of coupled discontinuous Galerkin methods for simulating overtopping of flood defenses by storm waves. **2020**, 136, 103501 | | 4 |

| | | | |
|---|---|---|---|
| 335 | Third-order sparse grid generalized spectral elements on hexagonal cells for uniform-speed advection in a plane. **2020**, 132, 703-719 | | 3 |
| 334 | Plasma-material boundary conditions for discontinuous Galerkin continuum-kinetic simulations, with a focus on secondary electron emission. *Journal of Computational Physics*, **2020**, 406, 109215 | 4.1 | 4 |
| 333 | Slope limiting the velocity field in a discontinuous Galerkin divergence-free two-phase flow solver. **2020**, 196, 104322 | | 2 |
| 332 | A robust CFL condition for the discontinuous Galerkin method on triangular meshes. *Journal of Computational Physics*, **2020**, 403, 109095 | 4.1 | 6 |
| 331 | A Machine-Learning Anisotropy Detection Algorithm for Output-Adapted Meshes. **2020**, | | |
| 330 | Adaptive interface treatment for aerothermal coupling using a Discontinuous Galerkin method. **2020**, 149, 106208 | | 1 |
| 329 | A hyperbolicity-preserving discontinuous stochastic Galerkin scheme for uncertain hyperbolic systems of equations. **2020**, 370, 112602 | | 4 |
| 328 | High-order numerical simulation of axisymmetric wave phase conjugation. **2020**, 197, 104353 | | 1 |
| 327 | Discontinuous Galerkin approximation for excitatory-inhibitory networks with delay and refractory periods. **2020**, 31, 2050041 | | 0 |
| 326 | Systematic development of upwind numerical fluxes for the space discontinuous Galerkin method applied to elastic wave propagation in anisotropic and heterogeneous media with physical interfaces. *Computer Methods in Applied Mechanics and Engineering*, **2020**, 372, 113352 | 5.7 | 2 |
| 325 | High-Order Conservative Positivity-Preserving DG-Interpolation for Deforming Meshes and Application to Moving Mesh DG Simulation of Radiative Transfer. **2020**, 42, A3109-A3135 | | 2 |
| 324 | Superconvergence Analysis of the RungeKutta Discontinuous Galerkin Methods for a Linear Hyperbolic Equation. *Journal of Scientific Computing*, **2020**, 84, 1 | 2.3 | 4 |
| 323 | (Multi)wavelets increase both accuracy and efficiency of standard Godunov-type hydrodynamic models: Robust 2D approaches. **2020**, 144, 103693 | | 3 |
| 322 | Variable-fidelity multipoint aerodynamic shape optimization with output-based adapted meshes. **2020**, 105, 106004 | | 5 |
| 321 | A dynamically load-balanced parallel p-adaptive implicit high-order flux reconstruction method for under-resolved turbulence simulation. *Journal of Computational Physics*, **2020**, 417, 109581 | 4.1 | 4 |
| 320 | Convergence and Error Estimates for a Finite Difference Scheme for the Multi-dimensional Compressible NavierStokes System. *Journal of Scientific Computing*, **2020**, 84, 1 | 2.3 | 0 |
| 319 | A comparative Fourier analysis of discontinuous Galerkin schemes for advectionBiffusion with respect to BR1, BR2, and local discontinuous Galerkin diffusion discretization. **2020**, 43, 7841-7863 | | 1 |
| 318 | Analysis of Recovery-assisted discontinuous Galerkin methods for the compressible Navier-Stokes equations. *Journal of Computational Physics*, **2020**, 423, 109813 | 4.1 | 2 |

| | | | |
|---|---|---|---|
| 317 | Conservative discontinuous Galerkin methods for the nonlinear Serre equations. *Journal of Computational Physics*, **2020**, 421, 109729 | 4.1 | |
| 316 | On differentiable local bounds preserving stabilization for Euler equations. *Computer Methods in Applied Mechanics and Engineering*, **2020**, 370, 113267 | 5.7 | 2 |
| 315 | Split form ALE discontinuous Galerkin methods with applications to under-resolved turbulent low-Mach number flows. *Journal of Computational Physics*, **2020**, 421, 109726 | 4.1 | 3 |
| 314 | Local Discontinuous Galerkin Method for Nonlinear Time-Space Fractional Subdiffusion/Superdiffusion Equations. **2020**, 2020, 1-21 | | |
| 313 | A weighted Runge-Kutta discontinuous Galerkin method for reverse time migration. **2020**, 85, S343-S355 | | 3 |
| 312 | A conservative discontinuous Galerkin discretization for the chemically reacting Navier-Stokes equations. *Journal of Computational Physics*, **2020**, 423, 109826 | 4.1 | 2 |
| 311 | thornado-transport: Anderson- and GPU-accelerated nonlinear solvers for neutrino-matter coupling. **2020**, 1623, 012013 | | 2 |
| 310 | A Discontinuous Galerkin Method for the Coupled Stokes and Darcy Problem. *Journal of Scientific Computing*, **2020**, 85, 1 | 2.3 | 2 |
| 309 | Error Estimate of the Fourth-Order Runge--Kutta Discontinuous Galerkin Methods for Linear Hyperbolic Equations. **2020**, 58, 2885-2914 | | 4 |
| 308 | Influence of Bending Stiffness on Snap Loads in Marine Cables: A Study Using a High-Order Discontinuous Galerkin Method. **2020**, 8, 795 | | 5 |
| 307 | Non-linear CFL Conditions Issued from the von Neumann Stability Analysis for the Transport Equation. *Journal of Scientific Computing*, **2020**, 85, 1 | 2.3 | 1 |
| 306 | Strongly Out-of-Equilibrium Simulations for Electron Boltzmann Transport Equation Using Modal Discontinuous Galerkin Approach. **2020**, 6, 1 | | 13 |
| 305 | A Combined-Mode Fourier Analysis of DG Methods for Linear Parabolic Problems. **2020**, 42, A3825-A3858 | | 1 |
| 304 | A Stabilized DG Cut Cell Method for Discretizing the Linear Transport Equation. **2020**, 42, A3677-A3703 | | 9 |
| 303 | Physical, numerical, and computational challenges of modeling neutrino transport in core-collapse supernovae. **2020**, 6, 1 | | 12 |
| 302 | A Novel Staggered Semi-implicit Space-Time Discontinuous Galerkin Method for the Incompressible Navier-Stokes Equations. **2020**, 1 | | |
| 301 | High-order kinetic flow solver based on the flux reconstruction framework. *Physical Review E*, **2020**, 102, 043306 | 2.4 | 1 |
| 300 | Monotonicity-preserving finite element schemes with adaptive mesh refinement for hyperbolic problems. *Journal of Computational Physics*, **2020**, 416, 109522 | 4.1 | 2 |

| | | | |
|---|---|---|---|
| 299 | Waves at a fluid-solid interface: Explicit versus implicit formulation of boundary conditions using a discontinuous Galerkin method. **2020**, 147, 3136 | | 3 |
| 298 | A primal-dual finite element method for first-order transport problems. *Journal of Computational Physics*, **2020**, 417, 109571 | 4.1 | 2 |
| 297 | High-order multiscale discontinuous Galerkin methods for the one-dimensional stationary Schrdinger equation. **2020**, 380, 112962 | | 2 |
| 296 | Dispersion-dissipation analysis of triangular numerical-flux-based discontinuous Galerkin method for elastic wave equations. *Journal of Computational Physics*, **2020**, 418, 109630 | 4.1 | 6 |
| 295 | Exact and locally implicit source term solvers for multifluid-Maxwell systems. *Journal of Computational Physics*, **2020**, 415, 109510 | 4.1 | 3 |
| 294 | A reconstructed discontinuous Galerkin method for incompressible flows on arbitrary grids. *Journal of Computational Physics*, **2020**, 418, 109580 | 4.1 | 3 |
| 293 | Making a Synthesis of FDTD and DGTD Schemes for Computational Electromagnetics. **2020**, 5, 99-118 | | 7 |
| 292 | Fully-Discrete Analysis of High-Order Spatial Discretizations with Optimal Explicit RungeKutta Methods. *Journal of Scientific Computing*, **2020**, 83, 1 | 2.3 | 2 |
| 291 | Implicit shock tracking using an optimization-based high-order discontinuous Galerkin method. *Journal of Computational Physics*, **2020**, 410, 109385 | 4.1 | 15 |
| 290 | Arbitrary Lagrangian--Eulerian Discontinuous Galerkin Method for Hyperbolic Equations Involving $delta$-Singularities. **2020**, 58, 125-152 | | 5 |
| 289 | Implicit Discontinuous Galerkin Method for the Boltzmann Equation. *Journal of Scientific Computing*, **2020**, 82, 1 | 2.3 | 11 |
| 288 | Effect of Strong Electric Fields on Material Responses: The Bloch Oscillation Resonance in High Field Conductivities. **2020**, 13, | | 14 |
| 287 | Acceleration of adjoint-based adaptation through sub-iterations. **2020**, 202, 104491 | | 1 |
| 286 | Electromagnetic full- gyrokinetics in the tokamak edge with discontinuous Galerkin methods. **2020**, 86, | | 15 |
| 285 | Conservative discontinuous Galerkin scheme of a gyro-averaged Dougherty collision operator. **2020**, 60, 096021 | | 9 |
| 284 | Low-Memory, Discrete Ordinates, Discontinuous Galerkin Methods for Radiative Transport. **2020**, 42, B869-B893 | | 3 |
| 283 | The Flux Reconstruction Method with LaxWendroff Type Temporal Discretization for Hyperbolic Conservation Laws. *Journal of Scientific Computing*, **2020**, 82, 1 | 2.3 | 2 |
| 282 | A numerical dispersion-dissipation analysis of discontinuous Galerkin methods based on quadrilateral and triangular elements. **2020**, 85, T101-T121 | | 3 |

| | | | |
|---|---|---|---|
| 281 | Optimal, globally constraint-preserving, DG(TD)2 schemes for computational electrodynamics based on two-derivative Runge-Kutta timestepping and multidimensional generalized Riemann problem solvers ⬚A von Neumann stability analysis. *Journal of Computational Physics*, **2020**, 408, 109238 | 4.1 | 3 |
| 280 | Strong compact formalism for characteristic boundary conditions with discontinuous spectral methods. *Journal of Computational Physics*, **2020**, 408, 109276 | 4.1 | 4 |
| 279 | An extremum-preserving finite volume scheme for convection-diffusion equation on general meshes. **2020**, 380, 125301 | | |
| 278 | Continuum electromagnetic gyrokinetic simulations of turbulence in the tokamak scrape-off layer and laboratory devices. **2020**, 27, 042304 | | 13 |
| 277 | Exponential boundary-layer approximation space for solving the compressible laminar Navier-Stokes equations. **2020**, 46, 1 | | 0 |
| 276 | A posteriori error analysis and adaptive non-intrusive numerical schemes for systems of random conservation laws. **2020**, 60, 619-649 | | 1 |
| 275 | Superconvergence of Ultra-Weak Discontinuous Galerkin Methods for the Linear Schrödinger Equation in One Dimension. *Journal of Scientific Computing*, **2020**, 82, 1 | 2.3 | 2 |
| 274 | Entropy Stable Discontinuous Galerkin Schemes on Moving Meshes for Hyperbolic Conservation Laws. *Journal of Scientific Computing*, **2020**, 82, 1 | 2.3 | 5 |
| 273 | Benchmarking of a distributed-memory, high-order discontinuous finite element flow solver on a shared-memory parallel architecture. **2020**, 10, 035031 | | 1 |
| 272 | Application of discontinuous Galerkin method in supersonic and hypersonic gas flows. **2020**, 80, 227-246 | | 0 |
| 271 | High-order Runge-Kutta discontinuous Galerkin methods with a new type of multi-resolution WENO limiters on triangular meshes. **2020**, 153, 519-539 | | 8 |
| 270 | Effective high-order energy stable flux reconstruction methods for first-order hyperbolic linear and nonlinear systems. *Journal of Computational Physics*, **2020**, 414, 109475 | 4.1 | 4 |
| 269 | FLEXI: A high order discontinuous Galerkin framework for hyperbolicⱭarabolic conservation laws. **2021**, 81, 186-219 | | 18 |
| 268 | Metric-based, goal-oriented mesh adaptation using machine learning. *Journal of Computational Physics*, **2021**, 426, 109957 | 4.1 | 2 |
| 267 | Discontinuous Galerkin methods using poly-sinc approximation. **2021**, 179, 96-110 | | 2 |
| 266 | Development of an efficient wetting and drying treatment for shallow-water modeling using the quadrature-free Runge-Kutta discontinuous Galerkin method. **2021**, 93, 314-338 | | 1 |
| 265 | High order ADER schemes and GLM curl cleaning for a first order hyperbolic formulation of compressible flow with surface tension. *Journal of Computational Physics*, **2021**, 426, 109898 | 4.1 | 8 |
| 264 | High-Order Resolution of Multidimensional Compressible Reactive Flow Using Implicit Shock Tracking. *AIAA Journal*, **2021**, 59, 150-164 | 2.1 | 4 |

| | | | |
|---|---|---|---|
| 263 | High order semi-Lagrangian discontinuous Galerkin method coupled with Runge-Kutta exponential integrators for nonlinear Vlasov dynamics. *Journal of Computational Physics*, **2021**, 427, 110036 | 4.1 | 2 |
| 262 | A new WENO weak Galerkin finite element method for time dependent hyperbolic equations. **2021**, 159, 106-124 | | 0 |
| 261 | A third-order weighted variational reconstructed discontinuous Galerkin method for solving incompressible flows. **2021**, 91, 1037-1060 | | |
| 260 | Spectral and modal energy transfer analyses of LES using the discontinuous Galerkin method and their application to the Variational Multiscale approach. *Journal of Computational Physics*, **2021**, 427, 110031 | 4.1 | 1 |
| 259 | Discontinuous Galerkin methods for a dispersive wave hydro-morphodynamic model with bed-load transport. *Computer Methods in Applied Mechanics and Engineering*, **2021**, 375, 113592 | 5.7 | 1 |
| 258 | Numerical study of two models for viscous compressible fluid flows. *Journal of Computational Physics*, **2021**, 427, 110068 | 4.1 | 1 |
| 257 | A mixed discontinuous Galerkin method for the wave equation. **2021**, 82, 60-73 | | 1 |
| 256 | A Novel Robust Strategy for Discontinuous Galerkin Methods in Computational Fluid Mechanics: Why? When? What? Where?. **2021**, 8, | | 6 |
| 255 | Multigrid preconditioners for the hybridised discontinuous Galerkin discretisation of the shallow water equations. *Journal of Computational Physics*, **2021**, 426, 109948 | 4.1 | 0 |
| 254 | Designing CFD methods for bandwidth▯A physical approach. **2021**, 214, 104774 | | 0 |
| 253 | A statically condensed discontinuous Galerkin spectral element method on Gauss-Lobatto nodes for the compressible Navier-Stokes equations. *Journal of Computational Physics*, **2021**, 426, 109953 | 4.1 | 3 |
| 252 | An Adaptive Multiresolution Ultra-weak Discontinuous Galerkin Method for Nonlinear Schrödinger Equations. | | 1 |
| 251 | Application of the AmgX Library to the Discontinuous Galerkin Methods for Elliptic Problems. **2021**, 178-193 | | 2 |
| 250 | Local high-order conservative space-time adaptive mesh refinement with the Runge-Kutta time integration for solving the systems of conservation laws. **2021**, 1740, 012055 | | |
| 249 | High Order Discontinuous Finite Element Method for Wave Equation. **2021**, 11, 669-675 | | |
| 248 | Discontinuous Galerkin scheme for solving non-isothermal and non-equilibrium model of liquid chromatography. **2021**, 44, 52-69 | | 0 |
| 247 | Convergence analysis of an accurate and efficient method for nonlinear Maxwell's equations. **2021**, 26, 2429 | | |
| 246 | Parallelisation to Several Tens-of-Thousands of Cores. **2021**, 259-319 | | 0 |

| | | | |
|---|---|---|---|
| 245 | Simulation of shock-body interactions using the Runge-Kutta discontinuous Galerkin method with adaptive mesh refinement implemented on graphic accelerators. **2021**, 1787, 012042 | | |
| 244 | Discontinuous finite element method for efficient three-dimensional elastic wave simulation. **2021**, 18, 98-112 | | 0 |
| 243 | thornado-hydro: A Discontinuous Galerkin Method for Supernova Hydrodynamics with Nuclear Equations of State*. **2021**, 253, 21 | | 0 |
| 242 | A High-Order Maximum-Principle-Satisfying Discontinuous Galerkin Method for the Level Set Problem. *Journal of Scientific Computing*, **2021**, 87, 1 | 2.3 | 1 |
| 241 | Second-order discontinuous Galerkin flood model: Comparison with industry-standard finite volume models. **2021**, 594, 125924 | | 6 |
| 240 | Consistency and local conservation in finite-element simulation of flow in porous media. **2021**, 25, 1123-1138 | | |
| 239 | Enforcing Strong Stability of Explicit Runge-Kutta Methods with Superviscosity. 1 | | 0 |
| 238 | On High Order ADER Discontinuous Galerkin Schemes for First Order Hyperbolic Reformulations of Nonlinear Dispersive Systems. *Journal of Scientific Computing*, **2021**, 87, 1 | 2.3 | 14 |
| 237 | Application of the Discontinuous Galerkin Method to the Study of the Dynamics of Temperature and Pressure Changes in a Formation with an Injection Well and a Hydraulic Fracture. **2021**, 31, 161-174 | | |
| 236 | Numerical Considerations for Quantifying Air-Water Turbulence with Moment Field Equations. **2021**, 3, 319 | | 1 |
| 235 | A DG-IMEX Method for Two-moment Neutrino Transport: Nonlinear Solvers for Neutrino-Matter Coupling*. **2021**, 253, 52 | | 4 |
| 234 | The Direct Discontinuous Galerkin Methods with Implicit-Explicit Runge-Kutta Time Marching for Linear Convection-Diffusion Problems. 1 | | 0 |
| 233 | A stable discontinuous Galerkin method based on high-order dual splitting scheme without additional stabilization term for incompressible flows. **2021**, 93, 2660 | | 1 |
| 232 | Discontinuous Galerkin methods for a dispersive wave hydro-sediment-morphodynamic model. *Computer Methods in Applied Mechanics and Engineering*, **2021**, 377, 113684 | 5.7 | 1 |
| 231 | A new (P_0) weak Galerkin finite element scheme for second-order problems. **2021**, 40, 1 | | 1 |
| 230 | A High-Order Well-Balanced Positivity-Preserving Moving Mesh DG Method for the Shallow Water Equations With Non-Flat Bottom Topography. *Journal of Scientific Computing*, **2021**, 87, 1 | 2.3 | 2 |
| 229 | Discontinuous-Galerkin finite-element method for approximating a model of non-equilibrium liquid chromatography considering Bi-Langmuir isotherm. 1-11 | | 0 |
| 228 | Error control for statistical solutions of hyperbolic systems of conservation laws. **2021**, 58, 1 | | |

| | | | |
|---|---|---|---|
| 227 | An efficient high-order least square-based finite difference-finite volume method for solution of compressible Navier-Stokes equations on unstructured grids. **2021**, 222, 104926 | | 2 |
| 226 | Optimal Parameters for Third Order RungeKutta Exponential Integrators for ConvectionDiffusion Problems. *Journal of Scientific Computing*, **2021**, 88, 1 | 2.3 | 0 |
| 225 | Coupled Electromagnetic and Hydrodynamic Modeling for Semiconductors Using DGTD. **2021**, 57, 1-5 | | 2 |
| 224 | On Thermodynamically Compatible Finite Volume Methods and Path-Conservative ADER Discontinuous Galerkin Schemes for Turbulent Shallow Water Flows. *Journal of Scientific Computing*, **2021**, 88, 1 | 2.3 | 5 |
| 223 | High Order Finite Volume Schemes for Solving the Non-Conservative Convection Equations on the Unstructured Grids. *Journal of Scientific Computing*, **2021**, 88, 1 | 2.3 | 1 |
| 222 | LISFLOOD-FP 8.0: the new discontinuous Galerkin shallow-water solver for multi-core CPUs and GPUs. **2021**, 14, 3577-3602 | | 6 |
| 221 | Numerical scheme for the far-out-of-equilibrium time-dependent Boltzmann collision operator: 1D second-degree momentum discretisation and adaptive time stepping. **2021**, 263, 107863 | | 4 |
| 220 | Convergence and Superconvergence of the Local Discontinuous Galerkin Method for Semilinear Second-Order Elliptic Problems on Cartesian Grids. 1 | | |
| 219 | An explicit modal discontinuous Galerkin method for Boltzmann transport equation under electronic nonequilibrium conditions. **2021**, 224, 104972 | | 7 |
| 218 | Convergence rate estimation of poly-Sinc-based discontinuous Galerkin methods. **2021**, 165, 527-552 | | 1 |
| 217 | A depth-integrated non-hydrostatic model for nearshore wave modelling based on the discontinuous Galerkin method. **2021**, 232, 108661 | | 0 |
| 216 | On Stable RungeKutta Methods for Solving Hyperbolic Equations by the Discontinuous Galerkin Method. **2021**, 57, 921-933 | | |
| 215 | Electromagnetic extension of the DoryGuestHarris instability as a benchmark for VlasovMaxwell continuum kinetic simulations of magnetized plasmas. **2021**, 28, 072112 | | 1 |
| 214 | A new upwind weak Galerkin finite element method for linear hyperbolic equations. **2021**, 390, 113376 | | 0 |
| 213 | High-order Runge-Kutta discontinuous Galerkin methods with multi-resolution WENO limiters for solving steady-state problems. **2021**, 165, 482-499 | | 2 |
| 212 | High-Order Implicit Shock Tracking with Targeted Mesh Optimization and PDE-Based Smoothing. **2021**, | | 0 |
| 211 | P0 time/space subcell limiting DG-DGLM method for hyperbolic systems of conservation laws. **2021**, 94, 114-135 | | 1 |
| 210 | Uniform Subspace Correction Preconditioners for Discontinuous Galerkin Methods with hp-Refinement. 1 | | |

| | | | |
|---|---|---|---|
| 209 | Scattering of entropy waves into sound by isolated aerofoils. **2021**, 923, | | 1 |
| 208 | Runge-Kutta discontinuous Galerkin method for solving wave equations in 2D isotropic and anisotropic poroelastic media at low frequencies. **2021**, 86, T261-T275 | | 3 |
| 207 | Sparse invariant domain preserving discontinuous Galerkin methods with subcell convex limiting. *Computer Methods in Applied Mechanics and Engineering*, **2021**, 382, 113876 | 5.7 | 4 |
| 206 | Trade-offs among transcription elongation rate, number, and duration of ubiquitous pauses on highly transcribed bacterial genes. **2021**, 19, 2150020 | | |
| 205 | Superconvergence Analysis of the Runge-Kutta Discontinuous Galerkin Method with Upwind-Biased Numerical Flux for Two-Dimensional Linear Hyperbolic Equation. 1 | | |
| 204 | An Eulerian-Lagrangian discontinuous Galerkin method for transport problems and its application to nonlinear dynamics. *Journal of Computational Physics*, **2021**, 439, 110392 | 4.1 | 1 |
| 203 | A semi-implicit hybrid finite volume/finite element scheme for all Mach number flows on staggered unstructured meshes. **2021**, 402, 126117 | | 5 |
| 202 | Time Step Restrictions for Strong-Stability-Preserving Multistep Runge Kutta Discontinuous Galerkin Methods. *Journal of Scientific Computing*, **2021**, 89, 1 | 2.3 | 1 |
| 201 | Non-linear Boltzmann equation on hybrid-unstructured non-conforming multi-domains. *Journal of Computational Physics*, **2021**, 110687 | 4.1 | 1 |
| 200 | Mixed-Type Discontinuous Galerkin Approach for Solving the Generalized FitzHugh Nagumo Reaction Diffusion Model. **2021**, 7, 1 | | 2 |
| 199 | The local meshless numerical model for granular debris flow. **2021**, 130, 20-28 | | 0 |
| 198 | Extendible and Efficient Python Framework for Solving Evolution Equations with Stabilized Discontinuous Galerkin Methods. 1 | | |
| 197 | A short note on the accuracy of the discontinuous Galerkin method with reentrant faces. *Journal of Computational Physics*, **2021**, 443, 110448 | 4.1 | |
| 196 | Numerical investigation of thermal non-equilibrium effects of diatomic and polyatomic gases on the shock-accelerated square light bubble using a mixed-type modal discontinuous Galerkin method. **2021**, 179, 121708 | | 5 |
| 195 | A simple, optimally convergent, parameter-free discretization of diffusive terms with the discontinuous Galerkin method. *Journal of Computational Physics*, **2021**, 445, 110595 | 4.1 | 0 |
| 194 | A flux reconstruction kinetic scheme for the Boltzmann equation. *Journal of Computational Physics*, **2021**, 447, 110689 | 4.1 | 0 |
| 193 | Numerical error analysis for an energy-stable HDG method for the Allen Cahn equation. **2022**, 402, 113800 | | 2 |
| 192 | A survey of numerical schemes for transportation equation. **2021**, 308, 01020 | | |

| | | | |
|---|---|---|---|
| 191 | An arbitrary high-order discontinuous Galerkin method with local time-stepping for linear acoustic wave propagation. **2021**, 149, 569 | | 2 |
| 190 | Implicit Methods. **2021**, 11-59 | | 1 |
| 189 | A New Troubled-Cell Indicator for Discontinuous Galerkin Methods Using K-Means Clustering. **2021**, 43, A3009-A3031 | | 0 |
| 188 | Some Applications of Discontinuous Galerkin Methods in Solid Mechanics. **2008**, 227-236 | | 4 |
| 187 | One-Dimensional Shock-Capturing for High-Order Discontinuous Galerkin Methods. **2009**, 307-325 | | 2 |
| 186 | Energetically Optimal Flapping Wing Motions via Adjoint-Based Optimization and High-Order Discretizations. **2018**, 259-289 | | 1 |
| 185 | Discontinuous Galerkin Solver for the Semiconductor Boltzmann Equation. **2007**, 257-260 | | 2 |
| 184 | SIAC Filtering for Nonlinear Hyperbolic Equations. **2015**, 285-291 | | 1 |
| 183 | A New hp-Adaptive DG Scheme for Conservation Laws Based on Error Control. **2008**, 187-198 | | 1 |
| 182 | Time Acceleration Methods for Advection on the Cubed Sphere. **2009**, 253-262 | | 1 |
| 181 | Emerging Numerical Methods for Atmospheric Modeling. **2011**, 251-311 | | 7 |
| 180 | An Adaptive Multiwavelet-Based DG Discretization for Compressible Fluid Flow. **2011**, 813-820 | | 2 |
| 179 | An Overview on High Order Numerical Methods for Convection Dominated PDEs. **2003**, 79-88 | | 1 |
| 178 | High-order localized time integration for grid-induced stiffness. **2003**, 1883-1886 | | 1 |
| 177 | A high-order discontinuous Galerkin solver for the incompressible RANS equations coupled to the k⏾ turbulence model. **2020**, 212, 104710 | | 8 |
| 176 | A HWENO reconstruction based high-order compact gas-kinetic scheme on unstructured mesh. *Journal of Computational Physics*, **2020**, 410, 109367 | 4.1 | 13 |
| 175 | Essentially non-oscillatory and weighted essentially non-oscillatory schemes. **2020**, 29, 701-762 | | 12 |
| 174 | A discontinuous Galerkin method for general relativistic hydrodynamics in thornado. **2020**, 1623, 012012 | | 1 |

| | | | |
|---|---|---|---|
| 173 | **2019**, 31, 69-84 | | 5 |
| 172 | An Adaptive Multiresolution Discontinuous Galerkin Method with Artificial Viscosity for Scalar Hyperbolic Conservation Laws in Multidimensions. **2020**, 42, A2943-A2973 | | 4 |
| 171 | **2015**, 19, 523-533 | | 2 |
| 170 | Discontinuous Finite-Element Galerkin Method for Numerical Solution of Parabolic Problems in Anisotropic Media on Triangle Grids. **2016**, 9, 144-151 | | 3 |
| 169 | Improved Algorithm of Boundary Integral Equation Approximation in 2D Vortex Method for Flow Simulation Around Curvilinear Airfoil. **2019**, 22-51 | | 1 |
| 168 | Adjoint-Based Hp-Adaptation for a Class of High-Order Hybridized Finite Element Schemes for Compressible Flows. **2013**, | | 5 |
| 167 | Adjoint-Based Error Estimation and Mesh Adaptation for the Active Flux Method. **2013**, | | 1 |
| 166 | Airfoil Shape Optimization Using Output-Based Adapted Meshes. **2017**, | | 1 |
| 165 | Energy conserving local discontinuous Galerkin methods for wave propagation problems. **2013**, 7, 967-986 | | 35 |
| 164 | A numerical model of the Boltzmann equation related to the discontinuous Galerkin method. **2011**, 4, 139-151 | | 7 |
| 163 | Optimization of multi-angle Magneto-Acousto-Electrical Tomography (MAET) based on a numerical method. **2020**, 17, 2864-2880 | | 7 |
| 162 | A Riemann-Solver Free Spacetime Discontinuous Galerkin Method for General Conservation Laws. **2015**, 05, 55-74 | | 0 |
| 161 | DEVELOPMENT OF A HIGH-ORDER IMPLICIT DISCONTINUOUS GALERKIN METHOD FOR SOLVING COMPRESSIBLE NAVIER-STOKES EQUATIONS. **2011**, 16, 72-83 | | 1 |
| 160 | A High Order Accurate Nodal Discontinuous Galerkin Method (DGM) for Numerical Solution of Hyperbolic Equation. **2012**, 362-364 | | 2 |
| 159 | A discontinuous Galerkin method for shock capturing using a mixed high-order and sub-grid low-order approximation space. *Journal of Computational Physics*, **2021**, 110765 | 4.1 | 1 |
| 158 | Preface to Focused Issue on Discontinuous Galerkin Methods. 1 | | |
| 157 | Discontinuous Galerkin methods for equations with divergence-free solutions. **2003**, 1900-1902 | | |
| 156 | Adjoints for Time-Dependent Optimal Control. **2008**, 175-185 | | 1 |

155 A discontinuous Galerkin method with Hancock-type time integration for hyperbolic systems with stiff relaxation source terms. **2009**, 59-64

154 Comparison of Traditional and Novel Discretization Methods for Advection Models in Numerical Weather Prediction. **2009**, 263-272　2

153 Development of Discontinuous Galerkin Method for RANS Equations on Multibloc Hexahedral Meshes. **2010**, 95-106

152 The Challenges of High Order Methods in Numerical Weather Prediction. **2011**, 255-266

151 Adaptive Spectral Filtering and Digital Total Variation Postprocessing for the DG Method on Triangular Grids: Application to the Euler Equations. **2011**, 469-477

150 Numerical Simulations of Non-equilibrium Energy Transport in Nanostructures using Boltzmann Transport Equation. **2010**, 1, 189-218

149 HLLC-Type Riemann Solver for the BaernNunziato Equations of Compressible Two-Phase Flow. **2011**, 99-104

148 RungeKutta Discontinuous Galerkin Method for MultiPhase Compressible Flows. **2011**, 73-79

147 Solving the Shallow Water Equations Using the High Order Space-Time Discontinuous Galerkin Cell-Vertex Scheme. **2012**,　1

146 Fast time implicit-explicit discontinuous Galerkin method for convection-diffusion flow problems. **2012**,

145 Solving the Level Set Equation Using the High Order Space-time Discontinuous Galerkin Cell-Vertex Scheme. **2012**,　1

144 Runge-Kutta discontinuous Galerkin finite element method for two-dimensional gas dynamic equations in unified coordinate. **2012**, 61, 110208　3

143 The DG Scheme on Triangular Grids with Adaptive Modal and Variational Filtering Routines Applied to Shallow Water Flows. **2013**, 253-266　1

142 Bibliography. 527-535

141 Riemann-solver Free Space-time Discontinuous Galerkin Method for Magnetohydrodynamics. **2013**,　1

140 Two-Phase Flow Solved by High Order Discontinuous Galerkin Method. **2014**, 415-425

139 Accuracy Preserving Limiters for High-Order Finite Volume Methods. **2014**, 37-91

138 The Discontinuous Galerkin Method. **2014**, 121-140

| | | | |
|---|---|---|---|
| 119 | High order modal Discontinuous Galerkin ImplicitExplicit Runge Kutta and Linear Multistep schemes for the Boltzmann model on general polygonal meshes. **2021**, 233, 105224 | | 0 |
| 118 | Analysis of generalised alternating local discontinuous Galerkin method on layer-adapted mesh for singularly perturbed problems. **2021**, 58, 1 | | 0 |
| 117 | Numerical and experimental study of fluid flow in simplified blade cascade with prescribed harmonic motion. **2018**, 180, 02116 | | |
| 116 | Numerical simulation of fluid flow through simplified blade cascade with prescribed harmonic motion using discontinuous Galerkin method. **2018**, 180, 02117 | | |
| 115 | Numerical dispersion and dissipation of the triangle-based discontinuous Galerkin method for acoustic and elastic velocity-stress equations. **2022**, 159, 104979 | | 4 |
| 114 | Method of averaged element splittings for diffusion terms discretization in vertex-centered framework. *Journal of Computational Physics*, **2021**, 450, 110819 | 4.1 | 2 |
| 113 | The p-Weighted Limiter for the Discontinuous Galerkin Method in Solving Compressible Flows on Tetrahedral Grids. 1-24 | | |
| 112 | Arbitrary LagrangianEulerian Local Discontinuous Galerkin Method for Linear ConvectionDiffusion Equations. *Journal of Scientific Computing*, **2022**, 90, 1 | 2.3 | 0 |
| 111 | A one-dimensional local discontinuous Galerkin Richardsequation solution with dual-time stepping. 1 | | |
| 110 | An Optimized CPML Formulation for High Order FVTD Schemes for CED. **2021**, 6, 183-200 | | 2 |
| 109 | A Well-Balanced Discontinuous Galerkin Method Based on Hydrostatic Reconstruction for Real Gas in Pipelines. **2021**, 10, 4404-4414 | | |
| 108 | A posteriori Finite-Volume local subcell correction of high-order discontinuous Galerkin schemes for the nonlinear shallow-water equations. *Journal of Computational Physics*, **2022**, 452, 110902 | 4.1 | 0 |
| 107 | Time-marching schemes for spatially high order accurate discretizations of the Euler and NavierStokes equations. **2022**, 130, 100795 | | 0 |
| 106 | Development of a gyrokinetic hyperbolic solver based on discontinuous Galerkin method in tokamak geometry. **2022**, 273, 108265 | | 1 |
| 105 | A Discontinuous Petrov-Galerkin Method Based on Exponential Polynomial Approximation Spaces for One-Dimensional Hyperbolic Conservation Laws. **2021**, 10, 4542-4553 | | |
| 104 | Length-Scales for Efficient Cfl Conditions in High-Order Methods with Distorted Meshes: Application to Local-Timestepping for P-Multigrid. | | |
| 103 | Extension of the Spectral Difference Method to Combustion. | | |
| 102 | Semi-Langrangian discontinuous Galerkin methods for scalar hyperbolic conservation laws | | 0 |

| | | | |
|---|---|---|---|
| 83 | Parallel Accelerator for Discontinuous Galerkin Method for Navier-Stokes Equations. **2022**, 467-476 | | |
| 82 | Coupled Electromagnetic and Hydrodynamic Semiconductor Modeling for Terahertz Generation. **2022**, 1-1 | | |
| 81 | Conservative DG method for the micro-macro decomposition of the VlasovPoissonLenardBernstein model. *Journal of Computational Physics*, **2022**, 111227 | 4.1 | |
| 80 | An Efficient Parallel Implementation of the RungeKutta Discontinuous Galerkin Method with Weighted Essentially Non-Oscillatory Limiters on Three-Dimensional Unstructured Meshes. **2022**, 12, 4228 | | 0 |
| 79 | Modeling wave propagation in elastic solids via high-order accurate implicit-mesh discontinuous Galerkin methods. *Computer Methods in Applied Mechanics and Engineering*, **2022**, 395, 114971 | 5.7 | 2 |
| 78 | Symplectic Hamiltonian finite element methods for electromagnetics. *Computer Methods in Applied Mechanics and Engineering*, **2022**, 396, 114969 | 5.7 | 0 |
| 77 | Discontinuous Galerkin Methods for Solids and Structures. **2022**, | | |
| 76 | High-Order Implicit Shock Tracking (HOIST). **2022**, 233-259 | | |
| 75 | Numerical simulations of RichtmyerMeshkov instability of SF6 square bubble in diatomic and polyatomic gases. **2022**, 242, 105502 | | 1 |
| 74 | Stability of high order finite difference and local discontinuous Galerkin schemes with explicit-implicit-null time-marching for high order dissipative and dispersive equations. *Journal of Computational Physics*, **2022**, 464, 111314 | 4.1 | |
| 73 | Entropy Stable Galerkin Methods with Suitable Quadrature Rules for Hyperbolic Systems with Random Inputs. *Journal of Scientific Computing*, **2022**, 92, | 2.3 | |
| 72 | A Well-Balanced Moving Mesh Discontinuous Galerkin Method for the Ripa Model on Triangular Meshes. | | |
| 71 | Modeling Hydrodynamic Charge Transport in Graphene. **2022**, 15, 4141 | | |
| 70 | Continuous Artificial-Viscosity Shock Capturing for Hybrid Discontinuous Galerkin on Adapted Meshes. *AIAA Journal*, 1-14 | 2.1 | |
| 69 | An Arbitrarily High-order Spectral Difference Method with Divergence Cleaning (SDDC) for Compressible Magnetohydrodynamic Simulations on Unstructured Grids. *Astrophysical Journal*, **2022**, 932, 16 | 4.7 | |
| 68 | Kinetic interpretation of the classical Rayleigh-Taylor instability. *Physical Review E*, **2022**, 105, | 2.4 | |
| 67 | Operator-splitting local discontinuous Galerkin method for multi-dimensional linear convection-diffusion equations. *Numerical Algorithms*, | 2.1 | 0 |
| 66 | High-order compact finite volume schemes for solving the Reynolds averaged Navier-Stokes equations on the unstructured mixed grids with a large aspect ratio. *Journal of Computational Physics*, **2022**, 111458 | 4.1 | 1 |

| 65 | Output-based error estimation and mesh adaptation for unsteady turbulent flow simulations. *Computer Methods in Applied Mechanics and Engineering*, **2022**, 399, 115322 | 5.7 | |
| 64 | An improved simple WENO limiter for discontinuous Galerkin methods solving hyperbolic systems on unstructured meshes. *Journal of Computational Physics*, **2022**, 467, 111424 | 4.1 | 1 |
| 63 | A High-Order Velocity-Based Discontinuous Galerkin Scheme for the Shallow Water Equations: Local Conservation, Entropy Stability, Well-Balanced Property, and Positivity Preservation. *Journal of Scientific Computing*, **2022**, 92, | 2.3 | |
| 62 | A Unifying Algebraic Framework for Discontinuous Galerkin and Flux Reconstruction Methods Based on the Summation-by-Parts Property. *Journal of Scientific Computing*, **2022**, 92, | 2.3 | |
| 61 | A Primal-Dual Approach for Solving Conservation Laws with Implicit in Time Approximations. | | |
| 60 | Eulerian--Lagrangian Runge--Kutta Discontinuous Galerkin Method for Transport Simulations on Unstructured Meshes. **2022**, 44, A2037-A2060 | | |
| 59 | Localized collocation schemes and their applications. **2022**, 38, | | 1 |
| 58 | Error estimates of H(div)-conforming method for nonstationary magnetohydrodynamic system. **2022**, 48, | | |
| 57 | Reduced basis methods for numerical room acoustic simulations with parametrized boundaries. **2022**, 152, 851-865 | | 1 |
| 56 | Local discontinuous Galerkin methods for diffusive-viscous wave equations. **2022**, 114690 | | 0 |
| 55 | Gradient-based shape optimization for unsteady turbulent simulations using field inversion and machine learning. **2022**, 129, 107843 | | 0 |
| 54 | Interacting Boundary Layer Methods and Applications. **2022**, 253-302 | | 0 |
| 53 | Improving the Accuracy of Discretisations of the Vector Transport Equation on the Lowest-Order Quadrilateral Raviart-Thomas Finite Elements. | | 0 |
| 52 | A high-order shock capturing discontinuous Galerkin finite difference hybrid method for GRMHD. **2022**, 39, 195001 | | 0 |
| 51 | Troubled-Cell Indication Using K-means Clustering with Unified Parameters. **2022**, 93, | | 0 |
| 50 | Performance Analysis of Speculative Parallel Adaptive Local Timestepping for Conservation Laws. | | 0 |
| 49 | Fourier Continuation Discontinuous Galerkin Methods for Linear Hyperbolic Problems. | | 0 |
| 48 | Optimal Error Estimates of the Local Discontinuous Galerkin Method and High-order Time Discretization Scheme for the Swift-Hohenberg Equation. **2022**, 93, | | 0 |

| 47 | A Discontinuous Galerkin Overset Scheme Using WENO Reconstruction and Subcells for Two-Dimensional Problems. **2022**, 93, | o |
|---|---|---|
| 46 | Numerical solution of unperturbed and general perturbed Newell-Whitehead-Segel equation by the local discontinuous Galerkin method. | o |
| 45 | Compact Update Algorithm for Numerical Schemes with Cross Stencil for Data Access Locality. **2022**, | o |
| 44 | Solving elastic wave equations in 2D transversely isotropic media by a weighted Runge-Kutta discontinuous Galerkin method. **2022**, | o |
| 43 | A COMPARISON OF EXPLICIT RUNGE−KUTTA METHODS. 1-23 | o |
| 42 | A New Family of Thermodynamically Compatible Discontinuous Galerkin Methods for Continuum Mechanics and Turbulent Shallow Water Flows. **2022**, 93, | o |
| 41 | High-fidelity modelling of moored marine structures: multi-component simulations and fluid-mooring coupling. | o |
| 40 | Hamiltonian-Preserving Discontinuous Galerkin Methods for the Liouville Equation With Discontinuous Potential. **2022**, 44, A3317-A3340 | o |
| 39 | Efficient Implementation of the Hybrid Large Particle Method. **2022**, 14, 946-954 | o |
| 38 | A primal-dual approach for solving conservation laws with implicit in time approximations. **2023**, 472, 111654 | o |
| 37 | Study on mechanism and characteristics of sound scattering modulation by underwater low frequency oscillating vortex flow field. **2023**, 0 | o |
| 36 | A one-dimensional field dislocation mechanics model using discontinuous Galerkin method. **2023**, 216, 111870 | o |
| 35 | A mixed-type modal discontinuous Galerkin approach for solving nonlinear reaction diffusion equations. **2022**, | 1 |
| 34 | Hybrid discontinuous Galerkin-finite volume techniques for compressible flows on unstructured meshes. **2023**, 473, 111755 | o |
| 33 | A new symmetric interior penalty discontinuous ´Galerkin formulation for ´the´ Serre⊡Green⊠Naghdi equations. | o |
| 32 | Adaptive Discontinuous G alerkin Time-Domain Method for the Modeling and Simulation of Electromagnetic and Multiphysics Problems. **2022**, 199-237 | o |
| 31 | (Multi)wavelet-based Godunov-type simulators of flood inundation: Static versus dynamic adaptivity. **2023**, 171, 104357 | o |
| 30 | A high order positivity-preserving polynomial projection remapping method. **2023**, 474, 111826 | o |

| 29 | Study on Vehicle Fuel Consumption and Exhaust Emissions Based on a New Viscous Macroscopic Traffic Flow Model. **2023**, 149, | 1 |
| 28 | Improving the accuracy of discretisations of the vector transport equation on the lowest-order quadrilateral Raviart-Thomas finite elements. **2023**, 474, 111834 | 0 |
| 27 | Double-precision hardware accelerator for incompressible Navier–Stokes equations solver based on discontinuous Galerkin method. **2023**, 176, 103393 | 0 |
| 26 | A scalable DG solver for the electroneutral Nernst-Planck equations. **2022**, 111859 | 0 |
| 25 | Beyond the Oberbeck-Boussinesq and long wavelength approximation. | 0 |
| 24 | Long-wavelength closures for collisional and neutral interaction terms in gyro-fluid models. **2022**, 2397, 012015 | 0 |
| 23 | A solution to the trilemma of the moist Charney–Phillips staggering. | 0 |
| 22 | Is the classic convex decomposition optimal for bound-preserving schemes in multiple dimensions?. **2023**, 476, 111882 | 0 |
| 21 | Extended reacting boundary modeling of porous materials with thin coverings for time-domain room acoustic simulations. **2023**, 548, 117550 | 1 |
| 20 | Residual-Based Time-Step Control for High-Order Discretizations. **2023**, | 0 |
| 19 | High-Order Implicit Shock Tracking for Three-Dimensional High-Speed Flows. **2023**, | 0 |
| 18 | Output-Based Mesh Optimization Using Metric-Conforming Node Movement. **2023**, | 0 |
| 17 | Adjoint-Based Adaptation of Large-Eddy Simulations using Dynamic Closures. **2023**, | 0 |
| 16 | Gradient-Based Shape Optimization for Unsteady Turbulent Simulations Using Dynamic Closures. **2023**, | 0 |
| 15 | A Neural-Network Based Adaptive Discontinuous Galerkin Method for Turbulent Flow Simulations. **2023**, | 0 |
| 14 | Discontinuous Galerkin finite element scheme for solving non-linear lumped kinetic model of non-isothermal reactive liquid chromatography. **2023**, 40, 555-571 | 0 |
| 13 | High order discontinuous Galerkin simulation of hypersonic shock-boundary layer interaction using subcell limiting approach. **2023**, 485, 112117 | 0 |
| 12 | A direct discontinuous Galerkin method for a high order nonlocal conservation law. **2023**, 141, 1-14 | 0 |

| 11 | Wavefield simulation with the discontinuous Galerkin method for a poroelastic wave equation in triple-porosity media. **2023**, 88, T121-T135 | 0 |
| 10 | Shallow-Flow Velocity Predictions Using Discontinuous Galerkin Solutions. **2023**, 149, | 0 |
| 9 | Modeling 3-D Elastic Wave Propagation in TI Media Using Discontinuous Galerkin Method on Tetrahedral Meshes. **2023**, 61, 1-14 | 0 |
| 8 | Urban Heat Island Dynamics in an UrbanRural Domain with Variable Porosity: Numerical Methodology and Simulation. **2023**, 11, 1140 | 0 |
| 7 | On Generalized GaussRadau Projections and Optimal Error Estimates of Upwind-Biased DG Methods for the Linear Advection Equation on Special Simplex Meshes. **2023**, 95, | 0 |
| 6 | Solution of convection-diffusion equations by local discontinuous Galerkin method. **2023**, 1-27 | 0 |
| 5 | Moving Water Equilibria Preserving Discontinuous Galerkin Method for the Shallow Water Equations. **2023**, 95, | 0 |
| 4 | A modified symplectic discontinuous Galerkin method for acoustic and elastic wave simulations. 11, | 0 |
| 3 | Extension of the Spectral Difference Method to Premixed Laminar and Turbulent Combustion. | 0 |
| 2 | A positivity-preserving and conservative high-order flux reconstruction method for the polyatomic BoltzmannBGK equation. **2023**, 112146 | 0 |
| 1 | Unified discontinuous Galerkin finite-element framework for transient conjugated radiation-conduction heat transfer. **2023**, 107, | 0 |