A Complete Bibliography of Publications in *Journal of Computational Physics*: 2025–2029

Nelson H. F. Beebe
University of Utah
Department of Mathematics, 110 LCB
155 S 1400 E RM 233
Salt Lake City, UT 84112-0090
USA

Tel: +1 801 581 5254
E-mail: beebe@math.utah.edu, beebe@acm.org, beebe@computer.org (Internet)
WWW URL: https://www.math.utah.edu/~beebe/

26 November 2024
Version 1.01

Title word cross-reference

3 [IDLL25, WCL25]. $_2$ [SF25]. $\mathcal{O}(v/c)$ [LEH+25]. $\mu(I)$ [CGMS25].

-rheology [CGMS25].

1 [Ano25a]. **15** [Ano25b].

2025 [Ano25a, Ano25b].

accelerated [DEB25]. **accuracy** [YDN25, ZGP25]. **accurate** [CBHS25]. **acoustic** [JTZ+25]. **Adaptive** [DSMX25, LHGH25, SF25, WCL25]. **Adding** [HLY+25]. **address** [SE25]. **adjusted** [CN25]. **aerodynamics** [RY25]. **algorithm** [CGS+25, JvWD25, WCL25]. **all-scale** [GSC25]. **Allen** [HLXX25]. **analyses** [KMG+25]. **analysis** [BCH+25, CZ25, HLXX25, JTZ+25]. **analytical** [CEvW25]. **anisotropic** [YDN25]. **anomalies** [SE25]. **Application** [JL25, SF25, SMZ25]. **applications** [BSKG25, CWZ25, DSMX25, RY25]. **approach** [SE25]. **approaches** [CW25a]. **approximation** [CAD25]. **approximations**

[KWN25]. **aquifers** [WHY+25]. **ARMS** [HLY+25]. **array** [JL25]. **artificial** [CAD25]. **atmospheric** [GSC25]. **augmented** [EJ25]. **auxiliary** [CW25a]. **Aw** [CCWX25].

backward [LCE+25]. **balanced** [SK25, ZXX25]. **based** [BSKG25, CGB+25, CGMS25, CCLM25, CW25b, CFMZ25, GZL25, HLF25, JZXR25, LXZ+25, RY25, ST25, WGS25, ZZSX25]. **basis** [DHN+25, JZXR25]. **bifurcation** [HLXX25]. **blades** [SE25]. **Board** [Ano25c, Ano25d]. **body** [DHN+25]. **Boltzmann** [KZLB25, ST25]. **boosted** [WHY+25]. **Bose** [BCZ25, YLYZ25]. **Bound** [CCWX25]. **Bound-preserving** [CCWX25]. **Boundary** [ZSS25]. **bounded** [CEvW25, SK25]. **bounds** [KWN25]. **Boussinesq** [SK25].

Cahn [HLXX25]. **capturing** [HLF25]. **cascade** [LXZ+25]. **CFD** [TCK+25]. **CFL** [LCE+25]. **class** [God25]. **cloaking** [CWZ25]. **CO** [SF25]. **coarse** [LHGH25]. **coarse/fine** [LHGH25]. **collocation** [JZXR25]. **compact** [WYC25]. **compressibility** [SF25]. **compressible** [CN25, KZLB25, ZSS25]. **computation** [YLYZ25]. **Computing** [BCZ25, MMBD25]. **condensates** [YLYZ25]. **condensation** [BCZ25]. **conditioning** [CZ25]. **conservation** [CAD25, RWSL+25, WZX25]. **conservative** [ZXX25]. **consideration** [SF25]. **Continuous** [CW25b]. **convection** [EJ25]. **convergence** [TM25]. **convolutional** [LXZ+25]. **core** [BSKG25]. **correction** [CEvW25, XMG25]. **coupled** [CEvW25, JvWD25]. **coupling** [TCK+25]. **cross** [DSMX25]. **crystals** [WCL25]. **curve** [CGS+25]. **curvilinear** [CN25]. **cuts** [WCZ25].

D [IDLL25, WCL25]. **decomposition** [MMBD25]. **deep** [BCZ25, BvdHM+25, GZL25]. **deformation** [DHN+25]. **dendritic** [JZXR25]. **dense** [SZW25]. **density** [BSKG25, JvWD25]. **derivative** [CW25b]. **derivative-free** [CW25b]. **DG** [LEH+25]. **DG-IMEX** [LEH+25]. **differencing** [PG25]. **differential** [XMG25]. **diffusion** [EJ25]. **digital** [BSKG25]. **dimensional** [CGS+25, JTZ+25, LXZ+25, WYC25]. **diminishing** [YLYZ25]. **direct** [ST25]. **discontinuous** [CAD25, KWN25, WZX25, ZXX25]. **Discovering** [CAD25]. **discrete** [WGY+25]. **Discretely** [CN25]. **discretisation** [SK25]. **discretization** [HLXX25, YDN25]. **discretized** [XMG25]. **dispersion** [WCL25]. **domains** [DSMX25]. **doubly** [JTZ+25]. **DSMC** [TCK+25]. **DSMC-CFD** [TCK+25]. **dual** [DHN+25]. **dual-restricted** [DHN+25]. **Dynamic** [SF25, TM25]. **dynamical** [CW25b].

E-SGP [DEB25]. **edge** [WCZ25]. **Editorial** [Ano25c, Ano25d]. **efficient** [DEB25]. **Einstein** [BCZ25, YLYZ25]. **elastodynamics** [CWZ25]. **element** [CGMS25, KWN25, YLYZ25]. **elliptic** [GSC25, YDN25]. **emulation** [DEB25]. **Energy** [KWN25, CW25a, SK25, YLYZ25]. **energy-bounded** [SK25]. **energy-diminishing** [YLYZ25]. **energy-preserving** [CW25a].

enhanced [BvdHM+25]. **equation** [EJ25, HLXX25, ST25, XMG25]. **equations** [CBHS25, CCLM25, DSMX25, LCE+25, ZSS25, ZXX25]. **equilibrium** [SZW25, ZXX25]. **Error** [BCH+25, XMG25]. **Euler** [CEvW25, RY25, ZSS25]. **Eulerian** [Sid25]. **excited** [YLYZ25]. **explicit** [CBHS25]. **exponential** [PG25]. **exterior** [CWZ25].

field [BSKG25, JZXR25]. **filter** [WZX25]. **fine** [LHGH25]. **finite** [CGMS25, WYC25, YLYZ25]. **flow** [BSKG25, CGS+25, DEB25, LHGH25, SE25, SMZ25, TM25, WYC25]. **flows** [CN25, CFMZ25, JvWD25, JL25, KZLB25, RY25, SZW25, TCK+25]. **fluid** [CGS+25, KZLB25, SF25, ZZSX25]. **flux** [CN25]. **Fokker** [CFMZ25]. **forced** [LXZ+25]. **forward** [LCE+25]. **forward-backward** [LCE+25]. **fourth** [WYC25]. **fourth-order** [WYC25]. **fracture** [WGY+25]. **frame** [CGB+25]. **frame-based** [CGB+25]. **Framework** [JTZ+25, HLY+25]. **free** [CW25b]. **frequency** [CCLM25]. **full** [SF25]. **fully** [JvWD25, SF25]. **fully-coupled** [JvWD25]. **function** [DHN+25, JZXR25]. **fundamental** [JL25].

Galerkin [CAD25, EJ25, KWN25, WZX25, YLYZ25, ZXX25]. **gas** [CFMZ25, SE25, SZW25, ST25, TCK+25]. **Gaussian** [BvdHM+25, DEB25]. **General** [SZW25, CW25a, HLY+25]. **Godunov** [MJC+25]. **GP** [BCH+25]. **Gradient** [BvdHM+25, WHY+25, BSKG25, CW25b]. **gradient-based** [CW25b]. **Gradient-boosted** [WHY+25]. **Gradient-enhanced** [BvdHM+25]. **granular** [CGMS25]. **grid** [KWN25, SMZ25, TM25]. **gridding** [SF25]. **grids** [CBHS25, CN25, WYC25]. **ground** [BCZ25, YLYZ25].

Hamiltonian [CW25a]. **Helmholtz** [CCLM25]. **High** [CBHS25, PG25, CCLM25, CN25, GSC25, HLY+25, HLF25, MMBD25, RWSL+25]. **High-order** [CBHS25, PG25, CN25, HLY+25, HLF25, RWSL+25]. **high-performance** [GSC25]. **hp}** [WCL25]. **hp}-adaptive** [WCL25]. **hybrid** [KZLB25]. **hydrodynamic** [IDLL25]. **hydrogen** [WHY+25]. **hyperbolic** [DSMX25, KWN25, MJC+25, WZX25]. **hyperbolic-cross-space** [DSMX25].

ill [CZ25]. **ill-conditioning** [CZ25]. **IMEX** [IDLL25, LEH+25]. **implicit** [CBHS25, JvWD25]. **implicit-explicit** [CBHS25]. **Improved** [WGY+25, ZGP25]. **Improving** [SE25]. **incompressible** [WYC25]. **informed** [CAD25, CZ25, SMZ25, WGY+25]. **insights** [KMG+25]. **integrodifferential** [DSMX25]. **interactions** [ZZSX25]. **Interesting** [God25]. **interface** [CGS+25, HLY+25, LHGH25, WCZ25]. **interfacial** [JvWD25]. **interpolation** [DHN+25]. **inverse** [LXZ+25]. **iterative** [SZW25].

Jacobi [DSMX25]. **January** [Ano25a, Ano25b]. **jump** [WZX25].

kernel [BCH+25]. **kernel/GP** [BCH+25]. **kinetic** [ST25]. **Kronecker**

[DEB25]. **Kutta** [IDLL25, LCE+25].

Lagrange [CEvW25]. **Lagrangian** [Sid25, WGS25]. **large** [JvWD25]. **lattice** [KZLB25]. **laws** [CAD25, RWSL+25, WZX25]. **layer** [ZXX25]. **LBMOOD** [KZLB25]. **learning** [CAD25, CCLM25, FKSY25, GZL25]. **level** [DHN+25, KMG+25]. **like** [JL25]. **limit** [LEH+25]. **limited** [KZLB25]. **linear** [FKSY25, PG25]. **linearized** [TM25]. **Local** [CW25a, LCE+25]. **localized** [DHN+25, JZXR25]. **loss** [KMG+25]. **low** [TCK+25]. **low-speed** [TCK+25].

machine [CAD25]. **magnetohydrodynamics** [WGS25]. **mapped** [DSMX25]. **markers** [HLY+25]. **MARS** [HLY+25]. **mass** [KMG+25]. **materials** [CGMS25]. **mesh** [DHN+25, LHGH25]. **meshes** [GSC25]. **method** [CCLM25, CN25, CFMZ25, DSMX25, EJ25, HLF25, IDLL25, JZXR25, JL25, KMG+25, KZLB25, LEH+25, LXZ+25, ST25, TCK+25, WCZ25, WGS25, WZX25, WYC25, YLYZ25, ZSS25]. **methods** [BCH+25, CGMS25, CW25b, RWSL+25, Sid25, YDN25, ZXX25, ZGP25]. **microfluidic** [BSKG25]. **mixed** [CGMS25, ZGP25]. **mixtures** [ST25]. **model** [BSKG25, CGMS25, CW25b, CFMZ25, LEH+25, LXZ+25, MJC+25, RY25, SK25, TM25, WGY+25, ZZSX25]. **modeled** [TM25]. **modeling** [BvdHM+25, CGB+25, SE25]. **modelling** [TCK+25]. **models** [CAD25, CCWX25, GSC25, IDLL25]. **moment** [LEH+25]. **MOOD** [KZLB25]. **Multi** [DHN+25, CW25a, IDLL25, JL25, SMZ25]. **Multi-body** [DHN+25]. **multi-grid** [SMZ25]. **multi-level** [DHN+25]. **multi-particle** [JL25]. **multi-scale** [IDLL25]. **multi-symplectic** [CW25a]. **multidimensional** [DSMX25]. **multifidelity** [BvdHM+25]. **multilayered** [JTZ+25]. **Multiscale** [ZGP25, CFMZ25].

Navier [BSKG25]. **network** [BCZ25, WHY+25, XMG25]. **networks** [CZ25, CCWX25, FKSY25, WGY+25]. **Neural** [CW25b, BCZ25, CZ25, SMZ25, WHY+25, WGY+25]. **Non** [CWZ25, SZW25]. **non-equilibrium** [SZW25]. **Non-radiating** [CWZ25]. **nondiagonal** [PG25]. **nonequilibrium** [CFMZ25]. **Nonlinear** [CGMS25, BCH+25, FKSY25, RWSL+25, RY25]. **nonlinearly** [CN25]. **normalized** [BCZ25]. **novel** [SE25, SK25]. **Numerical** [MJC+25, CCLM25, ST25, SK25, YDN25].

ocean [IDLL25]. **OEDG** [CCWX25]. **operator** [CW25b, SMZ25]. **operators** [FKSY25, GSC25]. **optimization** [CW25b, GZL25, JTZ+25]. **optimized** [LCE+25]. **order** [CBHS25, CN25, HLY+25, HLF25, IDLL25, PG25, RWSL+25, WYC25, ZZSX25]. **oversampling** [ZGP25]. **overset** [CBHS25, KWN25].

parametric [BCH+25]. **parametrized** [RY25]. **part** [PG25]. **partial**

[XMG25]. **particle** [CFMZ25, JL25]. **parts** [RWSL+25]. **path** [ZXX25]. **path-conservative** [ZXX25]. **PDEs** [BCH+25, CW25a]. **performance** [GSC25, MMBD25]. **periodic** [JTZ+25]. **perturbation** [HLXX25]. **Peshkov** [MJC+25]. **Petrov** [EJ25]. **phase** [BSKG25, CGS+25, JZXR25, LHGH25, MJC+25]. **phase-field** [BSKG25]. **phenomenon** [JZXR25]. **photonic** [WCL25]. **Physics** [SMZ25, CAD25, CZ25, WGY+25]. **Physics-informed** [SMZ25, CAD25, CZ25, WGY+25]. **Planck** [CFMZ25]. **point** [CGMS25, SE25]. **point-based** [CGMS25]. **porous** [SMZ25]. **posed** [KWN25]. **posteriori}** [KZLB25]. **Preconditioning** [GSC25]. **preserving** [CW25a, CCWX25, ZXX25]. **Preventing** [KMG+25]. **problems** [KWN25, RY25, YDN25]. **process** [DEB25]. **processes** [BvdHM+25]. **product** [DEB25]. **projection** [ZZSX25]. **projection-based** [ZZSX25]. **projections** [FKSY25].

quasilinear [God25].

radial [DHN+25, JZXR25]. **radiating** [CWZ25]. **radiation** [LEH+25, MMBD25]. **random** [FKSY25]. **RandONets** [FKSY25]. **RANS** [RY25]. **rarefied** [ST25, TCK+25]. **Rascle** [CCWX25]. **ratios** [JvWD25]. **Ray** [MMBD25]. **reconstruction** [CGS+25, CN25, WCL25]. **reduced** [ZZSX25]. **reduction** [RY25]. **Registration** [RY25]. **Registration-based** [RY25]. **regularized** [BSKG25, CGMS25]. **reinterpreted** [WGY+25]. **relation** [WCL25]. **reliability** [CGB+25]. **removing** [HLY+25]. **resolution** [XMG25]. **restricted** [DHN+25]. **rheology** [CGMS25]. **Riemann** [WGS25]. **ring** [JL25]. **ring-like** [JL25]. **RKDG** [HLF25]. **Robust** [LHGH25]. **Robustness** [CGB+25, HLXX25, RWSL+25]. **role** [ZGP25]. **Romenski** [MJC+25]. **Runge** [IDLL25, LCE+25].

saddle [CGMS25]. **sampling** [WCL25]. **scalar** [CW25a]. **scale** [GSC25, IDLL25]. **scheme** [CEvW25, HLF25, SZW25]. **schemes** [CBHS25, CCWX25, HLXX25, LCE+25, PG25]. **second** [IDLL25]. **segmented** [ZZSX25]. **semi** [CEvW25]. **semi-analytical** [CEvW25]. **sequestration** [SF25]. **series** [XMG25]. **set** [KMG+25]. **SGP** [DEB25]. **Shallow** [FKSY25, LCE+25, ZXX25]. **shape** [JTZ+25]. **Shifted** [ZSS25]. **shock** [HLF25, ST25]. **shock-capturing** [HLF25]. **simulating** [WHY+25]. **simulation** [LHGH25, MJC+25, ST25, SMZ25, TM25, WYC25]. **simulations** [CEvW25, TM25]. **sintering** [JZXR25]. **smoothing** [ZGP25]. **solid** [JZXR25]. **solidification** [JZXR25]. **solution** [CZ25, ST25]. **solutions** [JL25, XMG25]. **solve** [KZLB25]. **solver** [WGS25]. **solving** [DSMX25]. **sources** [CWZ25]. **space** [CGB+25, DSMX25, ZXX25]. **sparse** [DEB25]. **spatial** [CW25b]. **spatial-temporal** [CW25b]. **spatiotemporal** [DSMX25, WHY+25]. **spectral** [EJ25, KWN25]. **speed** [TCK+25]. **spheres** [JL25]. **splines** [HLY+25]. **Spurious** [Sid25]. **Stability** [HLXX25]. **stable**

[CN25, SK25]. **staggered** [WGS25]. **stagnation** [SE25]. **standard** [KMG+25]. **state** [CGB+25, YLYZ25]. **state-space** [CGB+25]. **states** [BCZ25, YLYZ25]. **stepping** [CBHS25, LCE+25]. **stiff** [PG25]. **stochastic** [CFMZ25]. **Stokes** [BSKG25, JL25]. **storage** [WHY+25]. **streamline** [EJ25]. **Structural** [GZL25]. **structure** [ZZSX25]. **structures** [JTZ+25]. **subcell** [WGS25]. **summation** [RWSL+25]. **summation-by-parts** [RWSL+25]. **super** [XMG25]. **super-resolution** [XMG25]. **surface** [JvWD25]. **surrogate** [TCK+25]. **symplectic** [CW25a]. **synthetic** [SZW25]. **systems** [God25, KWN25, PG25].

Taylor [XMG25]. **temporal** [CW25b]. **TENO** [HLF25]. **tension** [JvWD25]. **tetrahedral** [SF25]. **their** [CWZ25]. **Theory** [SMZ25]. **thermoacoustics** [CGB+25]. **THINC** [HLF25]. **three** [CGS+25, JTZ+25]. **three-dimensional** [CGS+25, JTZ+25]. **time** [CBHS25, EJ25, HLXX25, LCE+25, PG25, ZZSX25]. **time-discretization** [HLXX25]. **time-segmented** [ZZSX25]. **time-spectral** [EJ25]. **time-stepping** [CBHS25, LCE+25]. **topology** [GZL25]. **tracking** [HLY+25, WCZ25]. **traffic** [CCWX25]. **transformer** [LXZ+25]. **transformer-based** [LXZ+25]. **transient** [CEvW25]. **transition** [MJC+25, SE25]. **transonic** [RY25]. **transport** [LEH+25, MMBD25]. **treatment** [JvWD25, LHGH25]. **triangle** [WCZ25]. **Tuning** [BSKG25]. **turbine** [SE25]. **turbulence** [LXZ+25, SE25]. **turbulent** [TM25]. **Two** [BSKG25, CEvW25, CGS+25, LEH+25, LXZ+25, LHGH25, WYC25, ZXX25]. **two-dimensional** [LXZ+25, WYC25]. **two-layer** [ZXX25]. **two-moment** [LEH+25]. **Two-phase** [BSKG25, CGS+25, LHGH25]. **two-way** [CEvW25]. **twofold** [CGMS25].

unbounded [DSMX25]. **underground** [WHY+25]. **undisturbed** [CEvW25]. **unstructured** [GSC25, SF25, WYC25]. **upwind** [EJ25, RWSL+25]. **upwind/Petrov** [EJ25]. **using** [CAD25, DHN+25, LCE+25, TCK+25].

variable [CW25a]. **variational** [KMG+25]. **velocity** [CEvW25]. **via** [HLXX25]. **viscosity** [CAD25]. **volume** [WYC25]. **vorticity** [Sid25].

wall [CEvW25, TM25]. **wall-bounded** [CEvW25]. **wall-modeled** [TM25]. **water** [LCE+25, ZXX25]. **wave** [CBHS25]. **waves** [ST25]. **way** [CEvW25]. **weak** [YLYZ25]. **weight** [CN25]. **weight-adjusted** [CN25]. **Well** [ZXX25, KWN25, SK25]. **Well-balanced** [ZXX25]. **well-posed** [KWN25]. **wetting** [JZXR25].

Zhang [CCWX25].

References

Anonymous:2025:Ja

[Ano25a] Anonymous. 1 January 2025. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic).

Anonymous:2025:Jb

[Ano25b] Anonymous. 15 January 2025. *Journal of Computational Physics*, 521(Part 2):??, January 15, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic).

Anonymous:2025:EBa

[Ano25c] Anonymous. Editorial Board. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124008313`.

Anonymous:2025:EBb

[Ano25d] Anonymous. Editorial Board. *Journal of Computational Physics*, 521(Part 2):??, January 15, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124008635`.

Batlle:2025:EAK

[BCH+25] Pau Batlle, Yifan Chen, Bamdad Hosseini, Houman Owhadi, and Andrew M. Stuart. Error analysis of kernel/GP methods for nonlinear and parametric PDEs. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124007368`.

Bao:2025:CGS

[BCZ25] Weizhu Bao, Zhipeng Chang, and Xiaofei Zhao. Computing ground states of Bose–Einstein condensation by normalized deep neural network. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124007344`.

Balashov:2025:TPR

[BSKG25] Vladislav Balashov, Evgeny Savenkov, Aleksey Khlyupin, and Kirill M. Gerke. Two-phase regularized phase-field density gradient Navier–Stokes based flow model: Tuning for microfluidic and digital core applications. *Journal of Computational Physics*, 521(Part 2):??, January 15, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124008027`.

Bone:2025:GED

[BvdHM+25] Viv Bone, Chris van der Heide, Kieran Mackle, Ingo Jahn, Peter M. Dower, and Chris Manzie. Gradient-enhanced deep Gaussian processes for multifidelity modeling. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124007228`.

Caldana:2025:DAV

[CAD25] Matteo Caldana, Paola F. Antonietti, and Luca Dede'. Discovering artificial viscosity models for discontinuous Galerkin approximation of conservation laws using physics-informed machine learning. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124007241`.

Carson:2025:HOA

[CBHS25] Allison M. Carson, Jeffrey W. Banks, William D. Henshaw, and Donald W. Schwendeman. High-order accurate implicit-explicit time-stepping schemes for wave equations on overset grids. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124007617`.

Chen:2025:LBN

[CCLM25] Yu Chen, Jin Cheng, Tingyue Li, and Yun Miao. A learning based numerical method for Helmholtz equations with high frequency. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716

(electronic). URL http://www.sciencedirect.com/science/article/pii/S0021999124007265.

Chen:2025:BPO

[CCWX25] Wei Chen, Shumo Cui, Kailiang Wu, and Tao Xiong. Bound-preserving OEDG schemes for Aw–Rascle–Zhang traffic models on networks. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0021999124007551.

Chandran:2025:SAT

[CEvW25] Akshay Chandran, Fabien Evrard, and Berend van Wachem. A semi-analytical transient undisturbed velocity correction scheme for wall-bounded two-way coupled Euler–Lagrange simulations. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0021999124007447.

Cui:2025:MSP

[CFMZ25] Ziqi Cui, Kaikai Feng, Qihan Ma, and Jun Zhang. A multiscale stochastic particle method based on the Fokker–Planck model for nonequilibrium gas flows. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL http://www.sciencedirect.com/science/article/pii/S002199912400706X.

Cances:2025:RRS

[CGB+25] Mathieu Cances, Luc Giraud, Michael Bauerheim, Laurent Gicquel, and Franck Nicoud. Robustness and reliability of state-space, frame-based modeling for thermoacoustics. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0021999124007204.

Caucao:2025:NTS

[CGMS25] Sergio Caucao, Gabriel N. Gatica, Saulo R. Medrado, and Yuri D. Sobral. Nonlinear twofold saddle point-based mixed finite element methods for a regularized $\mu(I)$-rheology model of granular materials. *Journal of Computational Physics*, 520(??):??,

January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0021999124007101.

Chen:2025:TDC

[CGS+25] Yujie Chen, Junhua Gong, Dongliang Sun, Dongxu Han, Peng Wang, Bo Yu, and Wen-Quan Tao. A three-dimensional curve interface reconstruction algorithm for two-phase fluid flow. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL http://www.sciencedirect.com/science/article/pii/S002199912400737X.

Cicchino:2025:DNS

[CN25] Alexander Cicchino and Siva Nadarajah. Discretely nonlinearly stable weight-adjusted flux reconstruction high-order method for compressible flows on curvilinear grids. *Journal of Computational Physics*, 521(Part 2):??, January 15, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0021999124007800.

Cai:2025:LEP

[CW25a] Jiaxiang Cai and Yushun Wang. Local energy-preserving scalar auxiliary variable approaches for general multi-symplectic Hamiltonian PDEs. *Journal of Computational Physics*, 521(Part 2):??, January 15, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0021999124008210.

Chen:2025:NDO

[CW25b] Chuanqi Chen and Jin-Long Wu. Neural dynamical operator: Continuous spatial-temporal model with gradient-based and derivative-free optimization methods. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0021999124007289.

Chen:2025:NRS

[CWZ25] Shuxiang Chen, Jue Wang, and Lei Zhang. Non-radiating sources in elastodynamics and their applications in the exterior cloaking. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716

(electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124007538`.

Cao:2025:ASI

[CZ25] Wenbo Cao and Weiwei Zhang. An analysis and solution of ill-conditioning in physics-informed neural networks. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124007423`.

Duan:2025:KPA

[DEB25] Yu Duan, Matthew Eaton, and Michael Bluck. A Kronecker product accelerated efficient sparse Gaussian process (E-SGP)for flow emulation. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124007083`.

Deng:2025:MBM

[DHN+25] Hong Deng, Haifeng Hong, Chunsheng Nie, Hong Fang, and Liang Xie. Multi-body mesh deformation using a multi-level localized dual-restricted radial basis function interpolation. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124007502`.

Deng:2025:AHC

[DSMX25] Yunhong Deng, Sihong Shao, Alex Mogilner, and Mingtao Xia. Adaptive hyperbolic-cross-space mapped Jacobi method on unbounded domains with applications to solving multidimensional spatiotemporal integrodifferential equations. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S002199912400740X`.

Esmaily:2025:ASU

[EJ25] Mahdi Esmaily and Dongjie Jia. An augmented streamline upwind/Petrov–Galerkin method for the time-spectral convection–diffusion equation. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print),

1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124007320`.

Fabiani:2025:RSN

[FKSY25] Gianluca Fabiani, Ioannis G. Kevrekidis, Constantinos Siettos, and Athanasios N. Yannacopoulos. RandONets: Shallow networks with random projections for learning linear and nonlinear operators. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124006818`.

Godunov:2025:ICQ

[God25] S. K. Godunov. Interesting class of quasilinear systems. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124007691`.

Gillard:2025:PEO

[GSC25] Mike Gillard, Joanna Szmelter, and Francesco Cocetta. Preconditioning elliptic operators in high-performance all-scale atmospheric models on unstructured meshes. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124007514`.

Gao:2025:STO

[GZL25] Yingning Gao, Sizhu Zhou, and Meiqiu Li. Structural topology optimization based on deep learning. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S002199912400754X`.

Huang:2025:NHO

[HLF25] Haohan Huang, Xinliang Li, and Lin Fu. A new high-order RKDG method based on the TENO–THINC scheme for shock-capturing. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124007071`.

Hao:2025:SRT

[HLXX25] Wenrui Hao, Sun Lee, Xiaofeng Xu, and Zhiliang Xu. Stability and robustness of time-discretization schemes for the Allen–Cahn equation via bifurcation and perturbation analysis. *Journal of Computational Physics*, 521(Part 2):??, January 15, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124008131`.

Hu:2025:AAR

[HLY+25] Difei Hu, Kaiyi Liang, Linjie Ying, Sen Li, and Qinghai Zhang. ARMS: Adding and removing markers on splines for high-order general interface tracking under the MARS framework. *Journal of Computational Physics*, 521(Part 2):??, January 15, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124008222`.

Ishimwe:2025:MSI

[IDLL25] Ange Pacifique Ishimwe, Eric Deleersnijder, Vincent Legat, and Jonathan Lambrechts. A multi-scale IMEX second order Runge–Kutta method for 3D hydrodynamic ocean models. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124007307`.

Jordan:2025:MFS

[JL25] Josiah J. P. Jordan and Duncan A. Lockerby. The method of fundamental solutions for multi-particle Stokes flows: Application to a ring-like array of spheres. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124007356`.

Jiang:2025:FAA

[JTZ+25] Fuhang Jiang, Toru Takahashi, Changjun Zheng, Toshiro Matsumoto, and Haibo Chen. Framework of acoustic analysis and shape optimization for three-dimensional doubly periodic multilayered structures. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124007319`.

Janodet:2025:FCA

[JvWD25] Romain Janodet, Berend van Wachem, and Fabian Denner. A fully-coupled algorithm with implicit surface tension treatment for interfacial flows with large density ratios. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S002199912400768X`.

Jiang:2025:LRB

[JZXR25] Pengfei Jiang, Hui Zheng, Jingang Xiong, and Timon Rabczuk. The localized radial basis function collocation method for dendritic solidification, solid phase sintering and wetting phenomenon based on phase field. *Journal of Computational Physics*, 520(??): ??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124007630`.

Khedkar:2025:PML

[KMG+25] Kaustubh Khedkar, Amirreza Charchi Mamaghani, Pieter Ghysels, Neelesh A. Patankar, and Amneet Pal Singh Bhalla. Preventing mass loss in the standard level set method: New insights from variational analyses. *Journal of Computational Physics*, 520(??): ??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124007435`.

Kopriva:2025:EBD

[KWN25] David A. Kopriva, Andrew R. Winters, and Jan Nordström. Energy bounds for discontinuous Galerkin spectral element approximations of well-posed overset grid problems for hyperbolic systems. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124007563`.

Kozhanova:2025:HPM

[KZLB25] Ksenia Kozhanova, Song Zhao, Raphaël Loubère, and Pierre Boivin. A hybrid *a posteriori* MOOD limited lattice Boltzmann method to solve compressible fluid flows — LBMOOD. *Journal of Computational Physics*, 521(Part 2):??, January 15, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic).

URL http://www.sciencedirect.com/science/article/pii/S0021999124008180.

Lilly:2025:LTS

[LCE+25] Jeremy R. Lilly, Giacomo Capodaglio, Darren Engwirda, Robert L. Higdon, and Mark R. Petersen. Local time-stepping for the shallow water equations using CFL optimized forward-backward Runge–Kutta schemes. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0021999124007599.

Laiu:2025:DIM

[LEH+25] M. Paul Laiu, Eirik Endeve, J. Austin Harris, Zachary Elledge, and Anthony Mezzacappa. DG-IMEX method for a two-moment model for radiation transport in the $\mathcal{O}(v/c)$ limit. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0021999124007253.

Liu:2025:RTC

[LHGH25] Cheng Liu, Yiding Hu, Ruoqing Gao, and Changhong Hu. Robust treatment for the coarse/fine interface of adaptive mesh in the simulation of two-phase flow. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL http://www.sciencedirect.com/science/article/pii/S0021999124007332.

Li:2025:TBC

[LXZ+25] Haochen Li, Jinhan Xie, Chi Zhang, Yuchen Zhang, and Yaomin Zhao. A transformer-based convolutional method to model inverse cascade in forced two-dimensional turbulence. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL http://www.sciencedirect.com/science/article/pii/S002199912400723X.

Mossier:2025:NSP

[MJC+25] Pascal Mossier, Steven Jöns, Simone Chiocchetti, Andrea D. Beck, and Claus-Dieter Munz. Numerical simulation of phase transition with the hyperbolic Godunov–Peshkov–Romenski

model. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124007629`.

Mylotte:2025:RDR

[MMBD25] Owen Mylotte, Matthew T. McGurn, Kenneth Budzinski, and Paul E. DesJardin. Ray decomposition radiation transport for high performance computing. *Journal of Computational Physics*, 521(Part 2):??, January 15, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124008155`.

Permyakova:2025:HOS

[PG25] Evelina V. Permyakova and Denis S. Goldobin. High-order schemes of exponential time differencing for stiff systems with nondiagonal linear part. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124007411`.

Ranocha:2025:RHO

[RWSL+25] Hendrik Ranocha, Andrew R. Winters, Michael Schlottke-Lakemper, Philipp Öffner, Jan Glaubitz, and Gregor J. Gassner. On the robustness of high-order upwind summation-by-parts methods for nonlinear conservation laws. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124007198`.

Razavi:2025:RBN

[RY25] Alireza H. Razavi and Masayuki Yano. Registration-based nonlinear model reduction of parametrized aerodynamics problems with applications to transonic Euler and RANS flows. *Journal of Computational Physics*, 521(Part 2):??, January 15, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124008246`.

Shahbazi:2025:ITM

[SE25] Ali Akbar Shahbazi and Vahid Esfahanian. Improving turbulence modeling for gas turbine blades: a novel approach to address flow transition and stagnation point anomalies. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124007472`.

Solovsky:2025:DAF

[SF25] Jakub Solovský and Abbas Firoozabadi. Dynamic adaptive and fully unstructured tetrahedral gridding: Application to CO $_2$ sequestration with consideration of full fluid compressibility. *Journal of Computational Physics*, 521(Part 2):??, January 15, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124008040`.

Sidilkover:2025:SVE

[Sid25] David Sidilkover. Spurious vorticity in Eulerian and Lagrangian methods. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124007587`.

Svard:2025:NEB

[SK25] Magnus Svärd and Henrik Kalisch. A novel energy-bounded Boussinesq model and a well balanced and stable numerical discretisation. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124007642`.

Song:2025:PIM

[SMZ25] Suihong Song, Tapan Mukerji, and Dongxiao Zhang. Physics-informed multi-grid neural operator: Theory and an application to porous flow simulation. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124006867`.

Sitnikov:2025:MNS

[ST25] S. S. Sitnikov and F. G. Tcheremissine. A method for numerical simulation of shock waves in rarefied gas mixtures based on direct solution of the Boltzmann kinetic equation. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124007113`.

Shi:2025:GSI

[SZW25] Zheng Shi, Yanbing Zhang, and Lei Wu. General synthetic iterative scheme for non-equilibrium dense gas flows. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124007496`.

Tatsios:2025:DCC

[TCK+25] Giorgos Tatsios, Arun K. Chinnappan, Arshad Kamal, Nikos Vasileiadis, Stephanie Y. Docherty, Craig White, Livio Gibelli, Matthew K. Borg, James R. Kermode, and Duncan A. Lockerby. A DSMC-CFD coupling method using surrogate modelling for low-speed rarefied gas flows. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124007484`.

Terracol:2025:DLW

[TM25] Marc Terracol and Lucas Manueco. A dynamic linearized wall model for turbulent flow simulation: Towards grid convergence in wall-modeled simulations. *Journal of Computational Physics*, 521(Part 2):??, January 15, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124008039`.

Wang:2025:HAS

[WCL25] Yueqi Wang, Richard Craster, and Guanglian Li. An *hp*-adaptive sampling algorithm for dispersion relation reconstruction of 3D photonic crystals. *Journal of Computational Physics*, 521(Part 2):??, January 15, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124008209`.

Wang:2025:ITM

[WCZ25] Mengdi Wang, Matthew Cong, and Bo Zhu. An interface tracking method with triangle edge cuts. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124007526`.

Wang:2025:SLM

[WGS25] Xun Wang, Hongping Guo, and Zhijun Shen. A staggered Lagrangian magnetohydrodynamics method based on subcell Riemann solver. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124007277`.

Wang:2025:IPI

[WGY+25] Chao Wang, Hui Guo, Xia Yan, Zhang-Lei Shi, and Yang Yang. Improved physics-informed neural networks for the reinterpreted discrete fracture model. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124007393`.

Wang:2025:GBS

[WHY+25] Jian Wang, Zongwen Hu, Xia Yan, Jun Yao, Hai Sun, Yongfei Yang, Lei Zhang, and Junjie Zhong. Gradient-boosted spatiotemporal neural network for simulating underground hydrogen storage in aquifers. *Journal of Computational Physics*, 521(Part 2): ??, January 15, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124008052`.

Wen:2025:FOC

[WYC25] Ling Wen, Yan-Tao Yang, and Qing-Dong Cai. A fourth-order compact finite volume method on unstructured grids for simulation of two-dimensional incompressible flow. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124007095`.

Wei:2025:JFD

[WZX25] Lei Wei, Lingling Zhou, and Yinhua Xia. The jump filter in the discontinuous Galerkin method for hyperbolic conservation laws. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124007460`.

Xu:2025:TSE

[XMG25] Wenzhuo Xu, Christopher McComb, and Noelia Grande Gutiérrez. Taylor series error correction network for super-resolution of discretized partial differential equation solutions. *Journal of Computational Physics*, 521(Part 2):??, January 15, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124008179`.

Yang:2025:ANM

[YDN25] Chang Yang, Fabrice Deluzet, and Jacek Narski. On the accuracy of numerical methods for the discretization of anisotropic elliptic problems. *Journal of Computational Physics*, 521(Part 2):??, January 15, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124008167`.

Yang:2025:EDW

[YLYZ25] Lin Yang, Xiang-Gui Li, Wei Yan, and Ran Zhang. The energy-diminishing weak Galerkin finite element method for the computation of ground state and excited states in Bose–Einstein condensates. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124007459`.

Zhou:2025:MMM

[ZGP25] Dilong Zhou, Rafael T. Guiraldello, and Felipe Pereira. Multiscale mixed methods with improved accuracy: the role of oversampling and smoothing. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124007381`.

Zeng:2025:SBM

[ZSS25] Xianyi Zeng, Ting Song, and Guglielmo Scovazzi. A Shifted Boundary Method for the compressible Euler equations. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124007605`.

Zhang:2025:WBP

[ZXX25] Jiahui Zhang, Yinhua Xia, and Yan Xu. Well-balanced path-conservative discontinuous Galerkin methods with equilibrium preserving space for two-layer shallow water equations. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124007216`.

Zhai:2025:PBT

[ZZSX25] Qijia Zhai, Shiquan Zhang, Pengtao Sun, and Xiaoping Xie. A projection-based time-segmented reduced order model for fluid–structure interactions. *Journal of Computational Physics*, 520(??):??, January 1, 2025. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0021999124007290`.