

*Continued from outside back cover*

- 4444 **Numerical simulation of drop impact on a liquid–liquid interface with a multiple marker front-capturing method**  
E. Coyajee and B.J. Boersma
- 4468 **GPU accelerated Monte Carlo simulation of the 2D and 3D Ising model**  
T. Preis, P. Virnau, W. Paul and J.J. Schneider
- 4478 **Lattice Boltzmann method with selective viscosity filter**  
D. Ricot, S. Marié, P. Sagaut and C. Bailly
- 4491 **The piecewise-linear Finite Volume scheme: The best known lowest-order preconditioner for the  $\frac{d^2}{dx^2}$  Chebyshev spectral operator**  
G. Labrosse
- 4510 **Verified predictions of shape sensitivities in wall-bounded turbulent flows by an adaptive finite-element method**  
A. Hay, D. Pelletier and R. Di Caro
- 4532 **Convergence behavior of a new DSMC algorithm**  
M.A. Gallis, J.R. Torczynski, D.J. Rader and G.A. Bird
- 4549 **Tracking birth of vortex in flows**  
J. Nam, L.E. Scriven and M.S. Carvalho
- 4568 **An efficient multi-scale Poisson solver for the incompressible Navier–Stokes equations with immersed boundaries**  
G. Bonfigli and P. Jenny
- 4588 **An arbitrary Lagrangian–Eulerian formulation for the numerical simulation of flow patterns generated by the hydromedusa *Aequorea victoria***  
M. Sahin and K. Mohseni
- 4606 **The use of PDE centres in the local RBF Hermitian method for 3D convective-diffusion problems**  
D. Stevens, H. Power, M. Lees and H. Morvan
- 4625 **A high-order boundary integral method for surface diffusions on elastically stressed axisymmetric rods**  
X. Li and Q. Nie
- 4638 **Numerical solution of an inverse medium scattering problem for Maxwell’s Equations at fixed frequency**  
G. Bao and P. Li