

Publisher's note



Chengkun Huang

The editors and the publisher of the Journal of Computational Physics congratulate the recipient of the 2007 Nicholas Metropolis Award for Outstanding Doctoral Thesis Work in Computational Physics, Chengkun Huang, University of California, Los Angeles.

Citation:

“For his innovative work in plasma physics that led to the development of the QuickPIC code that has revolutionizes the simulation of plasma-based accelerator research.” (see also QUICKPIC: A highly efficient particle-in-cell code for modeling wakefield acceleration in plasmas in Journal of Computational Physics, Volume 217, Issue 2, 20 September 2006, Pages 658–679 by C. Huang, V.K. Decyk, C. Ren, M. Zhou, W. Lu, W.B. Mori, J.H. Cooley, Jr., T.M. Antonsen and T. Katsouleas; Refer [doi:10.1016/j.jcp.2006.01.039](https://doi.org/10.1016/j.jcp.2006.01.039)).

Background:

Chengkun Huang was born in China. He began his undergraduate study at Tsinghua University in 1994 and received his Bachelor degree in Engineering Physics in 1998 with highest honors. He conducted graduate research on spherical tokamak in Tsinghua University and was awarded a Master degree in 2000. He continued his study in the Department of Electrical Engineering at University of California Los Angeles under the supervision of Prof. Mori, where his research focused on multiscale computer modeling for plasma wakefield acceleration. Chengkun Huang is the author of the simulation tool QuickPIC, which is a large scale parallel Particle-In-Cell code for efficiently modeling beam-plasma and laser-plasma interactions in plasma-based acceleration and also used in studying electron cloud effect of conventional accelerators. He holds a M.S. degree (2003) and a Ph.D. degree (2005) in Electrical Engineering from UCLA and currently works as a postdoctoral scholar in the plasma theory and simulation group at the Physics department of UCLA. He is a member of APS and has a broad interest in computational science, parallel computing and plasma simulations.

About the Nicholas Metropolis Award for Outstanding Doctoral Thesis Work in Computational Physics:

The purpose of the award is to recognize doctoral thesis research of outstanding quality and achievement in computational physics and to encourage effective written and oral presentation of research results. The award consists of \$1,500 and a certificate to be presented at an awards ceremony at the Division of Computational Physics annual meeting and an additional allowance of up to \$500 to travel to the meeting. The recipient will be invited to present his or her work in an appropriate session of the meeting. The award is presented annually.