

Abstracts submitted by NSTX team to the 19th International Conference on Plasma Surface Interactions to be held in San Diego, CA in May 2010

1. H. W. Kugel, NSTX Plasma Response to Lithium Coated Divertor
2. R. J. Goldston, Downstream Heat Flux Profile *vs.* Midplane T Profile in Tokamaks
3. S. F. Paul, Dependence of impurity accumulation on I_p and the outer gap in the presence of lithium deposition in NSTX
4. J. Canik, Measurements and 2-D Modeling of Particle Balance, Recycling, and Core Fueling in Discharges with Lithium-coated PFCs in NSTX
5. R. Raman, Reduction of Low-Z Impurities During Plasma Start-up Through The Application Of Large Surface Area Biased Electrode Discharges
6. D. Stotler, Simulations of Diffusive Lithium Evaporation onto the NSTX Vessel Walls
7. M. Jaworski, Macroscopic Motion of Liquid Metal Plasma Facing Components in a Diverted Plasma
8. V. A. Soukhanovskii, "Snowflake" divertor configuration in NSTX
9. D. K. Mansfield, Improved H-mode Performance by Injection of Lithium Aerosol into the NSTX Scrape-Off Layer in Real Time
10. C. H. Skinner, Deuterium Retention in NSTX with Lithium Conditioning
11. R. Maqueda, Poloidal Distribution of Intermittent Events (Blobs) in the Scrape-off Layer and Divertor of the National Spherical Torus Experiment (NSTX)
12. F. Kelly, Observation of Harmonic Oscillations and ELMs in NSTX
13. F. Scotti, Observation and modeling of inner divertor re-attachment in discharges with lithium coatings in NSTX
14. J.-W. Ahn, Characteristics of heat and particle flux deposition in 3-D field applied Hmode plasmas in NSTX
15. C. N. Taylor, Surface chemistry and physics of D-retention in lithiated graphite
16. J. P. Allain, In-situ plasma-material interface (PMI) probe to study lithium conditioning mechanisms in NSTX plasmas
17. B. Heim, Post-mortem surface chemistry and passivation measurements of lithium coated ATJ graphite NSTX divertor tiles
18. J. R. Myra, Turbulent Transport and the Scrape-off-Layer Width
19. J. Nichols, 3-D reconstruction of pre-characterized lithium dust particle trajectories in NSTX
20. T. K. Gray, Divertor Heat Flux Scalings in the National Spherical Torus Experiment with and without Lithium Coatings
21. R. Maingi, Dependence of the divertor heat flux profiles on the plasma boundary shape in the National Spherical Torus Experiment