

Please click on the [blue links](#) below to download the corresponding paper

2009

Soukhanovskii VA, Maingi R, Gates DA, et al.

[Divertor heat flux mitigation in the National Spherical Torus Experiment](#)

PHYSICS OF PLASMAS **16** (2), 022501 (FEB 2009)

Gerhardt SP, Menard JE

[Characterization of the plasma current quench during disruptions in the National Spherical Torus Experiment](#)

NUCLEAR FUSION **49** (2), 025005 (FEB 2009)

Gerhardt SP, Brennan DP, Buttery R, et al.

[Relationship between onset thresholds, trigger types and rotation shear for the \$m/n = 2/1\$ neoclassical tearing mode in a high- \$\beta\$ spherical torus](#)

NUCLEAR FUSION **49** (3), 032003 (March 2009)

Stutman D, Delgado-Aparicio L, Gorelenkov N, et al.

[Correlation between Electron Transport and Shear Alfvén Activity in the National Spherical Torus Experiment](#)

PHYSICAL REVIEW LETTERS 102 (11), 115002 (MAR 20 2009)

Wang WX, Hahm TS, Ethier S, et al.

[Gyrokinetic studies on turbulence-driven and neoclassical non-diffusive toroidal momentum transport and effect on residual fluctuations in strong ExB shear](#)

PHYSICAL REVIEW LETTERS 102 (3) 035005 (2009)

Kaye SM, Solomon W, Bell RE, et al.

[Momentum transport in electron-dominated NSTX spherical torus plasmas](#)

NUCLEAR FUSION **49** (4), 045010 (APR 2009)

Crocker NA, Fredrickson ED, Kubota S, et al.

[Three-wave interactions between fast-ion driven modes in the National Spherical Torus Experiment](#)

PHYSICS OF PLASMAS 16 (4), 042513 (APR 2009)

Podesta M, Heidbrink WW, Liu D, et al.

[Experimental studies on fast-ion transport by Alfvén wave avalanches on the National Spherical Torus Experiment](#)

PHYSICS OF PLASMAS **16** (5), 056104 (MAY 2009)

Gorelenkov NN, Van Zeeland MA, Berk HL, et al.

[Beta-induced Alfvén-acoustic eigenmodes in National Spherical Torus Experiment and DIII-D driven by beam ions](#)

PHYSICS OF PLASMAS **16** (5), 056107 (MAY 2009)

Park JK, Boozer AH, Menard JE, et al.

[Importance of plasma response to nonaxisymmetric perturbations in tokamaks](#)

PHYSICS OF PLASMAS **16** (5), 056115 (MAY 2009)

Maqueda RJ, Maingi R

[Primary edge localized mode filament structure in the National Spherical Torus Experiment](#)
PHYSICS OF PLASMAS **16** (5), 056117 (MAY 2009)

Yuh HY, Levinton FM, Bell RE, et al.

[Internal transport barriers in the National Spherical Torus Experiment](#)
PHYSICS OF PLASMAS **16** (5), 056120 (MAY 2009)

Mazzucato E, Bell RE, Ethier S, et al.

[Study of turbulent fluctuations driven by the electron temperature gradient in the National Spherical Torus Experiment](#)
NUCLEAR FUSION **49** (5), 055001 (MAY 2009)

Raman R, Nelson BA, Mueller D, et al.

[Solenoid-free Plasma Start-up in NSTX using Transient CHI](#)
JOURNAL OF FUSION ENERGY **28** (2), 200-202 (JUN 2009)

Kugel HW, Bell M, Berzak L, et al.

[Physics design requirements for the National Spherical Torus Experiment liquid lithium divertor](#)
FUSION ENGINEERING AND DESIGN **84** (7-11), 1125-1129 (JUN 2009)

Nygren RE, Harjes HC, Wakeland P, et al.

[Thermal control of the liquid lithium divertor for NSTX](#)
FUSION ENGINEERING AND DESIGN **84** (7-11), 1438-1441 (JUN 2009)

Raman R, Jarboe TR, Mueller D, et al.

[Solenoid-free plasma startup in NSTX using transient CHI](#)
NUCLEAR FUSION **49** (6), 065006 (JUN 2009)

Park JK, Boozer AH, Menard JE

[Non-ambipolar Transport by Trapped Particles in Tokamaks](#)
PHYSICAL REVIEW LETTERS **102** 065002 (2009)

Lee KC

[Analysis of Turbulence Diffusion in Conjunction With Gyrocenter Shift at the Boundary of Fusion Devices](#)
PLASMA PHYSICS AND CONTROLLED FUSION **51** (6) 065023 (JUN 2009)

Smith DR, Kaye SM, Lee W, et al.

[Observations of reduced electron gyroscale fluctuations in National Spherical Torus Experiment H-mode plasmas with large ExB flow shear](#)
PHYSICAL REVIEW LETTERS **102** (22), 225005 (JUN 5 2009)

Paul SF, Skinner CH, Robinson JA, et al.

[Measurements of accumulated metallic impurities during LITER operation in NSTX](#)
JOURNAL OF NUCLEAR MATERIALS **390-91**, 211-215 (JUN 15 2009)

Zweben SJ, Maqueda RJ, Roquemore AL, et al.

[Biased electrodes for SOL control in NSTX](#)
JOURNAL OF NUCLEAR MATERIALS **390-91**, 417-420 (JUN 15 2009)

Ahn J-W, Maingi R, Boedo JA, et al.
[Dependence of SOL widths on plasma current and density in NSTX H-mode plasmas](#)
JOURNAL OF NUCLEAR MATERIALS 390-91, 421-424 (JUN 15 2009)

Kelly F, Maingi R, Maqueda R, et al.
[MARFE stability and movement in an ELMy H-mode NSTX discharge](#)
JOURNAL OF NUCLEAR MATERIALS 390-91, 436-439 (JUN 15 2009)

Maingi R, Bell RE, LeBlanc BP, et al.
[The enhanced pedestal H-mode in the National Spherical Torus experiment](#)
JOURNAL OF NUCLEAR MATERIALS 390-91, 440-443 (JUN 15 2009)

Soukhanovskii VA, Bell RE, Bush C, et al.
[On the secular density rises in NBI-heated H-mode plasmas in NSTX](#)
JOURNAL OF NUCLEAR MATERIALS 390-91, 516-519 (JUN 15 2009)

Mansfield DK, Kugel HW, Maingi R, et al.
[Transition to ELM-free improved H-mode by lithium deposition on NSTX graphite divertor surfaces](#)
JOURNAL OF NUCLEAR MATERIALS 390-91, 764-767 (JUN 15 2009)

Maqueda RJ, Maingi R, J-W
[Secondary ELM filaments in NSTX](#)
JOURNAL OF NUCLEAR MATERIALS 390-91, 843-846 (JUN 15 2009)

Allain JP, Rokusek DL, Harilal SS, et al.
[Experimental studies of lithium-based surface chemistry for fusion plasma-facing materials applications](#)
JOURNAL OF NUCLEAR MATERIALS 390-91, 942-946 (JUN 15 2009)

Kugel HW, Mansfield D, Maingi R, et al.
[Evaporated lithium surface coatings in NSTX](#)
JOURNAL OF NUCLEAR MATERIALS 390-91, 1000-1004 (JUN 15 2009)

Skinner CH, Kugel HW, Roquemore AL, et al.
[Mass changes in NSTX surface layers with Li conditioning as measured by quartz microbalances](#)
JOURNAL OF NUCLEAR MATERIALS 390-91, 1005-1008 (JUN 15 2009)

Wampler WR, Skinner CH, Kugel HW, et al.
[Measurement of lithium and deuterium on NSTX carbon tiles](#)
JOURNAL OF NUCLEAR MATERIALS 390-91, 1009-1012 (JUN 15 2009)

Diem SJ, Taylor G, Caughman JB, et al.
[Collisional damping of Electron Bernstein Waves and its mitigation by evaporated lithium conditioning in Spherical-Tokamak plasmas](#)
PHYSICAL REVIEW LETTERS 103 (1), 015002 (JUN 30 2009)

Phillips CK., Bell RE, Berry LA, et al.
[Spectral effects on fast wave core heating and current drive](#)
NUCLEAR FUSION 49 (7), 075015 (July 2009)

Raman R, Nelson BA, Mueller D, et al.
[Solenoid-less plasma start-up in NSTX using transient CHI](#)
FUSION SCIENCE AND TECHNOLOGY 56 (1), 512-517 (JUL 2009)

Maingi R, Osborne TH, LeBlanc BP, et al.
[Edge-Localized-Mode suppression through density-profile modification with lithium-wall coatings in the National Spherical Torus Experiment](#)
PHYSICAL REVIEW LETTERS 103 (7), 075001 (AUG 14 2009)

Delgado-Aparicio L, Stutman D, Tritz K, et al.
[Impurity transport studies in NSTX neutral beam heated H-mode plasmas](#)
NUCLEAR FUSION 49 (8), 085028 (AUG 2009)

Park JK, Boozer AH, Menard JE, et al.
[Shielding of External Magnetic Perturbations by Torque in Rotating Tokamak Plasmas](#)
PHYSICS OF PLASMAS 16 (8) 082512 (2009)

Soukhanovskii VA, Maingi R, Gates DA, et al.
[Divertor heat flux mitigation in high-performance H-mode discharges in the National Spherical Torus Experiment](#)
NUCLEAR FUSION 49 (9), 095025 (SEP 2009)

Diem SJ, Taylor G, Caughman JB, et al.
[Investigation of electron Bernstein wave \(EBW\) coupling and its critical dependence on EBW collisional loss in high- \$\beta\$, H-mode ST plasmas](#)
NUCLEAR FUSION 49 (9), 095027 (September 2009)

Zweben SJ, Maqueda RJ, Roquemore AL, et al.
[Local scrape-off layer control using biased electrodes in NSTX](#)
PLASMA PHYSICS AND CONTROLLED FUSION 51 (10), 105012 (OCT 2009)

Gates DA, Ahn J-W, Allain J, et al.
[Overview of results from the National Spherical Torus Experiment \(NSTX\)](#)
NUCLEAR FUSION 49 (10), 104016 (OCT 2009)

Smith DR, Kaye SM, Lee W, et al.
[Electron gyroscrape fluctuation measurements in National Spherical Torus Experiment H-mode plasmas](#)
PHYSICS OF PLASMAS 16 (11), 112507 (NOV 2009)

Bell MG, Kugel HW, Kaita R, et al.
[Plasma response to lithium-coated plasma-facing components in the National Spherical Torus Experiment](#)
PLASMA PHYSICS AND CONTROLLED FUSION 51 (12), 124054 (DEC 2009)

Boedo JA, Crocker N, Chousal L, et al.
[Fast scanning probe for the NSTX spherical tokamak](#)
REVIEW OF SCIENTIFIC INSTRUMENTS 80 (12), 123506 (DEC 2009)

Fredrickson ED, Crocker NA, Bell RE, et al.
[Modeling fast-ion transport during toroidal Alfvén eigenmode avalanches in National Spherical Torus Experiment](#)
PHYSICS OF PLASMAS 16 (12), 122505 (DEC 2009)

2010

Ding S, Kaye SM, Bell RE, et al.

[Characteristics of energy transport of Li-conditioned and non-Li-conditioned plasmas in the National Spherical Torus Experiment \(NSTX\)](#)

PLASMA PHYS. CONTROL. FUSION 52 (1), 015001 (January 2010)

Foley EL, Levinton F

[The motional stark effect with laser-induced fluorescence diagnostic](#)

J.PHYS: CONF SER 227 (1), 012007 (January 2010)

Berkery JW, Sabbagh SA, Betti R, et al.

[Resistive Wall Mode Instability at Intermediate Plasma Rotation](#)

PHYSICAL REVIEW LETTERS 104 (3), 035003 (January 22, 2010)

Canik JM, Maingi R, Evans TE, et al.

[On Demand Triggering of Edge Localized Instabilities Using External Nonaxisymmetric Magnetic Perturbations in Toroidal Plasmas](#)

PHYSICAL REVIEW LETTERS 104 (4), 045001 (January 2010)

Liu D, Heidbrink WW, Podesta M, et al.

[Profiles of fast ions that are accelerated by high harmonic fast waves in the National Spherical Torus Experiment](#)

PLASMA PHYS. CONTROL. FUSION 52 (2), 025006 (February 2010)

Kolesnikov RA, Wang WX, Hinton FL, et al.

[Drift-kinetic simulation of neoclassical transport with impurities in tokamaks](#)

PHYSICS OF PLASMAS 17 (2) 22506 (FEB 2010)

Sabbagh SA, Berkery JW, Bell RE, et al.

[Advances in global MHD mode stabilization research on NSTX](#)

NUCLEAR FUSION 50 (2), 025020 (February 2010)

Mazzucato E, et al.

[Study of turbulent fluctuations driven by the electron temperature gradient in the National Spherical Torus Experiment \(vol 49, 055001, 2009\)](#)

NUCLEAR FUSION 50 (2) 029801 (February 2010)

Ahn J-W, Maingi R, Mastrovito D, et al.

[High speed infrared camera diagnostic for heat flux measurement in NSTX](#)

REVIEW OF SCIENTIFIC INSTRUMENTS 81 (2) 023501 (February 2010)

Kolesnichenko Ya. I., Yu. V. Yakovenko, and V. V. Lutsenko

[Channeling of the Energy and Momentum during Energetic-Ion-Driven Instabilities in Fusion Plasmas](#)

Phys. Rev. Lett. 104 075001 (February 2010)

Canik JM, Maingi R, Evans TE, et al.

[ELM destabilization by externally applied non-axisymmetric magnetic perturbations in NSTX](#)

NUCLEAR FUSION 50 (3) 034012 (March 2010)

Mueller D, Bell MG, Bell R, et al.

[Ramp-Up of CHI-Initiated Plasmas on NSTX](#)

IEEE TRANSACTIONS ON PLASMA SCIENCE 38 (3) 371 (March 2010)

Raman R, Mueller D, Nelson BA, et al.

[Demonstration of Tokamak Ohmic Flux Saving by Transient Coaxial Helicity Injection in the National Spherical Torus Experiment](#)

PHYSICAL REVIEW LETTERS 104 (9) 095003 (March 5 2010)

Menard JE, Bell RE, Gates DA, et al.

[Progress in understanding error-field physics in NSTX spherical torus plasmas](#)

NUCLEAR FUSION 50 (4) 045008 (April 2010)

Ahn J-W, Canik JM, Soukhanovskii VA, et al.

[Modification of divertor heat and particle flux profiles with applied 3D fields in NSTX H-mode plasmas](#)

NUCLEAR FUSION 50 (4) 045010 (April 2010)

Solomon WM, Burrell KH, Garofalo AM, et al.

[Mechanisms for generating toroidal rotation in tokamaks without external momentum input](#)

PHYSICS OF PLASMAS 17 (5) 056108 (May 2010)

Gorelenkov NN, Fisch NJ and Fredrickson E

[On the anomalous fast ion energy diffusion in toroidal plasmas due to cavity modes](#)

PLASMA PHYSICS AND CONTROLLED FUSION 52 (5) 055014 (MAY 2010)

Choi M, Green D, Heidbrink WW, et al.

[Iterated finite-orbit Monte-Carlo simulations with full wave fields for modeling tokamak ion cyclotron resonance frequency wave heating experiments](#)

PHYSICS OF PLASMAS 17 (5) 056102 (MAY 2010)

Taylor G, Bell RE, Hosea JC, et al.

[Advances in high-harmonic fast wave physics in the National Spherical Torus Experiment](#)

PHYSICS OF PLASMAS 17 (5) 056114 (MAY 2010)

Smirnov RD, Pigarov AY, Krasheninnikov SI, et al.

[Multi-fluid modeling of low-recycling divertor regimes](#)

CONTRIB. PLASMA PHYS. 50 (3-5) 299-305 (MAY 2010)

Stotler DP, Maingi R, Zakharov LE, et al.

[Simulations of NSTX with a Liquid Lithium Divertor Module](#)

CONTRIBUTIONS TO PLASMA PHYSICS 50 (3-5) 368-373 (MAY 2010)

Maingi R, Kaye SM, Bell RE, et al.

[Overview of L-H power threshold studies in NSTX](#)

NUCLEAR FUSION 50 (6) 064010 (JUN 2010)

Gerhardt SP, Ahn J-W, Canik JM, et al.

[First observation of ELM pacing with vertical jogs in a spherical torus NSTX](#)

NUCLEAR FUSION 50 (6) SI 064015 (JUN 2010)

Canik JM, Sontag AC, Maingi R, et al.
[Progress in the development of ELM pace-making with non-axisymmetric magnetic perturbations in NSTX](#)
NUCLEAR FUSION 50 (6) SI 064016 (JUN 2010)

Wang WX, Diamond PH, Hahm TS, et al.
[Nonlinear flow generation by electrostatic turbulence in tokamaks](#)
PHYSICS OF PLASMAS 17 (7) 072511 (JULY 2010)

Davis WM, Patel RJ, Boeglin WU, et al.
[Advances in fast 2D camera data handling and analysis on NSTX](#)
FUSION ENGINEERING AND DESIGN 85 (3-4) 325-327 (JUL 2010)

Mastrovito D, Gates D, Gerhard S, et al.
[Plasma control system upgrade and increased plasma stability in NSTX](#)
FUSION ENGINEERING AND DESIGN 85 (3-4) 447-450 (JUL 2010)

Lepson JK, Beiersdorfer P, Clementson J, et al.
[EUV spectroscopy on NSTX](#)
JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS 43 (14) 144018 (JUL 28 2010)

Maqueda RJ, Stotler DP
[Intermittent divertor filaments in the National Spherical Torus Experiment and their relation to midplane blobs](#)
NUCLEAR FUSION 50 (7) 075002 (JUL 2010)

Berkery JW, Sabbagh SA, Reimerdes H, et al.
[The role of kinetic effects, including plasma rotation and energetic particles, in resistive wall mode stability](#)
PHYSICS OF PLASMAS 17 (8) 082504 (August 2010)

Bell RE, Andre R, Kaye SM, et al.
[Comparison of poloidal velocity measurements to neoclassical theory on the National Spherical Torus Experiment](#)
PHYSICS OF PLASMAS 17 (8) 082507 (August 2010)

Gorelenkov NN, Stutman D, Tritz K, et al.
[Anomalous electron transport due to multiple high frequency beam ion driven Alfvén eigenmodes](#)
NUCLEAR FUSION 50 (8) 084012 (AUG 2010)

Maingi R, Bell RE, Canik JM, et al.
[Triggered Confinement Enhancement and Pedestal Expansion in High-Confinement-Mode Discharges in the National Spherical Torus Experiment](#)
PHYSICAL REVIEW LETTERS 105 (13) 135004 (SEP 22 2010)

Kolemen E, Gates DA, Rowley CW, et al.
[Strike point control for the National Spherical Torus Experiment \(NSTX\)](#)
NUCLEAR FUSION 50 (10) 105010 (OCT 2010)

Gerhardt SP, Menard JE, Park JK, et al.
[Observation and correction of non-resonant error fields in NSTX](#)
PLASMA PHYSICS AND CONTROLLED FUSION 52 (10) 104003 (OCT 2010)

Zweben SJ, Maqueda RJ, Hager R, et al.
[Quiet periods in edge turbulence preceding the L-H transition in the National Spherical Torus Experiment](#)
PHYSICS OF PLASMAS 17 (10) 102502 (OCT 2010)

Jaworski MA, Kallman J, Kaita R, et al.
[Biasing, acquisition, and interpretation of a dense Langmuir probe array in NSTX](#)
REVIEW OF SCIENTIFIC INSTRUMENTS 81 (10) 10E130 (OCT 2010)

Boeglin WU, Perez RV, Darrow DS
[Concept of a charged fusion product diagnostic for NSTX](#)
REVIEW OF SCIENTIFIC INSTRUMENTS 81 (10) 10D301 (OCT 2010)

Zhang J, Crocker NA, Carter TA, et al.
[Interaction between Faraday rotation and Cotton-Mouton effects in polarimetry modeling for NSTX](#)
REVIEW OF SCIENTIFIC INSTRUMENTS 81 (10) 10D519 (OCT 2010)

Tsai WC, Domier CW, Lee KC, et al.
[NSTX far infrared tangential interferometer/polarimeter electronics upgrade](#)
REVIEW OF SCIENTIFIC INSTRUMENTS 81 (10) 10D526 (OCT 2010)

Kim J, Lee KC, Kaita R, et al.
[Use of the Far Infrared Tangential Interferometer/Polarimeter diagnostic for the study of rf driven plasma waves on NSTX](#)
REVIEW OF SCIENTIFIC INSTRUMENTS 81 (10) 10D527 (OCT 2010)
Times Cited: 0

Juhn JW, Lee KC, Hwang YS, et al.
[Fringe-jump corrected far infrared tangential interferometer/polarimeter for a real-time density feedback control system of NSTX plasmas](#)
REVIEW OF SCIENTIFIC INSTRUMENTS 81 (10) 10D540 (OCT 2010)

Smith DR, Feder H, Feder R, et al.
[Overview of the beam emission spectroscopy diagnostic system on the National Spherical Torus Experiment](#)
REVIEW OF SCIENTIFIC INSTRUMENTS 81 (10) 10D717 (OCT 2010)

Schoenbeck NL, Ellington SD, Fonck RJ, et al.
[Low-noise, high-speed detector development for optical turbulence fluctuation measurements for NSTX](#)
REVIEW OF SCIENTIFIC INSTRUMENTS 81 (10) 10D718 (OCT 2010)

Soukhanovskii VA, Roquemore AL, Bell RE, et al.
[Spectroscopic diagnostics for liquid lithium divertor studies on National Spherical Torus Experiment](#)
REVIEW OF SCIENTIFIC INSTRUMENTS 81 (10) 10D723 (OCT 2010)

Bell RE, Feder R

[Measurement of poloidal velocity on the National Spherical Torus Experiment \(invited\)](#)

REVIEW OF SCIENTIFIC INSTRUMENTS 81 (10) 10D724 (OCT 2010)

Heidbrink WW

[Fast ion D-alpha measurements of the fast-ion distribution function](#)

REVIEW OF SCIENTIFIC INSTRUMENTS 81 (10) 10D727 (OCT 2010)

Bortolon A., Heidbrink WW, Podesta M

[A tangentially viewing fast ion D-alpha diagnostic for NSTX](#)

REVIEW OF SCIENTIFIC INSTRUMENTS 81 (10) 10D728 (OCT 2010)

Kubota S, Peebles WA, Nguyen XV, et al.

[A Ka-band tunable direct-conversion correlation reflectometer for NSTX](#)

REVIEW OF SCIENTIFIC INSTRUMENTS 81 (10) 10D917 (OCT 2010)

Skinner CH, Rais B, Roquemore AL, et al.

[First real time detection of surface dust in a tokamak](#)

REVIEW OF SCIENTIFIC INSTRUMENTS 81 (10) 10E102 (OCT 2010)

Kallman J, Jaworski MA, Kaita R, et al.

[High density Langmuir probe array for NSTX scrape-off layer measurements under lithiated divertor conditions](#)

REVIEW OF SCIENTIFIC INSTRUMENTS 81 (10) 10E117 (OCT 2010)

Safronova AS, Quart ND, Lepson JK, et al.

[X-ray spectroscopy of Cu impurities on NSTX and comparison with Z-pinch plasmas](#)

REVIEW OF SCIENTIFIC INSTRUMENTS 81 (10) 10E305 (OCT 2010)

Clementson J, Beiersdorfer P, Roquemore AL, et al.

[Experimental setup for tungsten transport studies at the NSTX tokamak](#)

REVIEW OF SCIENTIFIC INSTRUMENTS 81 (10) 10E326 (OCT 2010)

Tritz K, Stutman D, Delgado-Aparicio L, et al.

[Prototype high resolution multienergy soft x-ray array for NSTX](#)

REVIEW OF SCIENTIFIC INSTRUMENTS 81 (10) 10E502 (OCT 2010)

Kumar D, Stutman D, Tritz K, et al.

[Transmission grating based extreme ultraviolet imaging spectrometer for time and space resolved impurity measurements](#)

REVIEW OF SCIENTIFIC INSTRUMENTS 81 (10) 10E507 (OCT 2010)

Battaglia DJ, Shafer MW, Unterberg EA, et al.

[Simulation of a tangential soft X-ray imaging system](#)

REVIEW OF SCIENTIFIC INSTRUMENTS 81 (10) 10E533 (OCT 2010)

Ono M, Bell MG, Bell RE, et al.

[Implications of NSTX lithium results for magnetic fusion research](#)

FUSION ENGINEERING AND DESIGN 85 (6) 882-889 (NOV 2010)

Mansfield DK, Roquemore AL, Schneider H, et al.
[A simple apparatus for the injection of lithium aerosol into the scrape-off layer of fusion research devices](#)
FUSION ENGINEERING AND DESIGN 85 (6) 890-895 (NOV 2010)

Kugel HW, Bell MG, Schneider H, et al.
[Lithium coatings on NSTX plasma facing components and its effects on boundary control, core plasma performance and operation](#)
FUSION ENGINEERING AND DESIGN 85 (6) 865-873 (NOV 2010)

Majeski R, Kugel H, Kaita R, et al.
[The impact of lithium wall coatings on NSTX discharges and the engineering of the Lithium Tokamak Experiment \(LTX\)](#)
FUSION ENGINEERING AND DESIGN 85 (6) 1283-1289 (NOV 2010)

Poli FM, Ethier S, Wang W, et al.
[A synthetic diagnostic for validation of electron gyroradius scale turbulence simulations against coherent scattering measurements](#)
PHYSICS OF PLASMAS 17 (11) 112514 (NOV 2010)

Raman R, Jarboe TR, Nelson BA, et al.
[Demonstration of Plasma Start-up in HIT-II and NSTX Using Transient Coaxial Helicity Injection](#)
JOURNAL OF FUSION ENERGY 29 (6) 540-542 (DEC 2010)

Podesta M, Bell RE, Fredrickson ED, et al.
[Effects of toroidal rotation shear on toroidicity-induced Alfvén eigenmodes in the National Spherical Torus Experiment](#)
PHYSICS OF PLASMAS 17 (12) 122501 (December 2010)

2011

Sechrest Y, Munsat T, D'Ippolito DA, et al.

[Flow and shear behavior in the edge and scrape-off layer of L-mode plasmas in National Spherical Torus Experiment](#)

PHYSICS OF PLASMAS 18 (1) 012502 (JAN 2011)

Soukhanovskii VA, Ahn J-W, Bell RE, et al.

[Taming the plasma-material interface with the 'snowflake' divertor in NSTX](#)

NUCLEAR FUSION 51 (1) 012001 (JAN 2011)

Gates, DA, Jun C, Zatz I, et al.

[All-Metal Transformer Core for a Low Aspect Ratio Tokamak](#)

FUSION ENGINEERING AND DESIGN 86 (1) 41 (JAN 2011)

Myra JR, Russell DA, D'Ippolito DA, et al.

[Reduced model simulations of the scrape-off-layer heat-flux width and comparison with experiment](#)

PHYSICS OF PLASMAS 18 (1) 012305 (FEB 2011)

Yuh HY, Kaye SM, Levinton FM, et al.

[Suppression of Electron Temperature Gradient Turbulence via Negative Magnetic Shear in NSTX](#)

PHYSICAL REVIEW LETTERS 106 (5) 055003 (FEB 3 2011)

Berkery JW, Sabbagh SA, Betti R, et al.

[Effect of Collisionality on Kinetic Stability of the Resistive Wall Mode](#)

PHYSICAL REVIEW LETTERS 106, 075004 (FEB 18 2011)

Wang WX, Hahm TS, Ethier S, et al.

[Trapped Electron Mode Turbulence Driven Intrinsic Rotation in Tokamak Plasmas](#)

PHYSICAL REVIEW LETTERS 106 (8) 085001 (FEB 23 2011)

Russell DA, Myra JR, D'Ippolito DA, et al.

[Comparison of Scrape-Off Layer Turbulence Simulations With Experiments Using a Synthetic Gas Puff Imaging Diagnostic](#)

PHYSICS OF PLASMAS 18 (2) 022306 (FEB 2011)

Allain JP, Brooks JN

[Lithium surface-response modelling for the NSTX liquid lithium divertor](#)

NUCLEAR FUSION 51 (2) 023002 (FEB 2011)

Delgado-Aparicio L, Stutman D, Sabbagh SA, et al.

[Soft x-ray measurements of resistive wall mode behavior in NSTX](#)

PLASMA PHYSICS AND CONTROLLED FUSION 53 (3) 035005 (MARCH 2011)

Smith DR, Guttenfelder W, LeBlanc BP, et al.

[Identification of microtearing modes below the ion gyroscale in the National Spherical Torus Experiment](#)

PLASMA PHYSICS AND CONTROLLED FUSION 53 (3) 035013 (MARCH 2011)

Gerhardt SP, Fredrickson E, Gates D, et al.
[Calculation of the non-inductive current profile in high-performance NSTX plasmas](#)
NUCLEAR FUSION 51 (3) 033004 (MARCH 2011)

Rais B, Skinner CH, Roquemore AL
[He puff system for dust detector upgrade](#)
REVIEW OF SCIENTIFIC INSTRUMENTS 82 (3) 036102 (MARCH 2011)

Guttenfelder W, Candy J, Kaye SM, et al.
[Electromagnetic Transport from Microtearing Mode Turbulence](#)
PHYSICAL REVIEW LETTERS 106 155004 (April 14 2011)

Ahn, J-W, Maingi R, Canik JM, et al.
[Effect of Non-Axisymmetric Magnetic Perturbations on Divertor Heat and Particle Flux Profiles in National Spherical Torus Experiment](#)
PHYSICS OF PLASMAS 18 (5) 056108 (April 2011)

Wang WX, Hahm TS, Ethier S, et al.
[Characteristics of Turbulence-Driven Plasma Flow and Origin of Experimental Empirical Scaling of Intrinsic Rotation](#)
PHYSICS OF PLASMAS 18 (4) 042502 (April 2011)

Ren Y, Kaye SM, Mazzucato E, et al.
[Density Gradient Stabilization of Electron Temperature Gradient Driven Turbulence in a Spherical Tokamak](#)
PHYSICAL REVIEW LETTERS 106 165005 (May 5 2011)

Nelson BA, Jarboe TR, Mueller D et al.
[Demonstration of 300 kA CHI-startup current, coupling to transformer drive and flux savings on NSTX](#)
NUCLEAR FUSION 51 (6) 063008 (June 2011)

Gerhardt, SP, Mastrovito D, Bell MG, et al.
[Implementation of beta-n Control in the National Spherical Torus Experiment](#)
Accepted for publication in NUCLEAR FUSION (October 2010)

Podesta M, et al.
[Non-linear dynamics of toroidicity-induced Alfvén eigenmodes on the National Spherical Torus Experiment](#)
Accepted for publication in NUCLEAR FUSION (April 2011)

Buttery RJ, Gerhardt S, La Haye RJ, et al.
[The Impact of 3-D Fields on Tearing Mode Stability of H-modes](#)
Accepted for publication in NUCLEAR FUSION (April 2011)

Canik J, Maingi R, Kubota S, et al.
[Edge transport and turbulence reduction with lithium coated plasma facing components in the National Spherical Torus Experiment](#)
Accepted for publication in PHYSICS OF PLASMAS (May 2011)

Maingi R, Hubbard AE, Meyer H, et al.
[Comparison of Small ELM Characteristics and Regimes in Alcator C-mod, MAST, and NSTX](#),
Accepted for publication in NUCLEAR FUSION (May 2011)

Heidbrink WW, McKee GR, Smith DR, et al.
[Beam Emission Spectroscopy Diagnostics Also Measure Edge Fast-Ion Light](#)
Accepted for publication in PLASMA PHYSICS AND CONTROLLED FUSION (MAY 2011)

Gerhardt, SP, Gates DA, Kaye SM, et al.
[Recent Progress Toward an Advanced Spherical Torus Operating Point in NSTX](#)
Accepted for publication in NUCLEAR FUSION (May 2011)

Jaworski, M, et al.
[Macroscopic Motion of Liquid Metal Plasma Facing Components in a Diverted Plasma](#)
Accepted for publication in JOURNAL OF NUCLEAR MATERIALS (May 2010)

Soukhanovskii, VA, et al.
["Snowflake" Divertor Configuration in NSTX](#)
Accepted for publication in JOURNAL OF NUCLEAR MATERIALS (May 2010)

Skinner, CH, et al.
[Deuterium Retention in NSTX with Lithium Conditioning](#)
Accepted for publication in JOURNAL OF NUCLEAR MATERIALS (May 2010)

Maqueda, R, et al.
[Poloidal Distribution of Intermittent Events \(Blobs\) in the Scrape-Off Layer and Divertor of the National Spherical Torus Experiment \(NSTX\)](#)
Accepted for publication in JOURNAL OF NUCLEAR MATERIALS (May 2010)

Scotti, F, et al.
[Observation and Modeling of Inner Divertor Re-Attachment in Discharges with Lithium Coatings in NSTX](#)
Accepted for publication in JOURNAL OF NUCLEAR MATERIALS (May 2010)

Myra JR, et al.
[Turbulent Transport and the Scrape-Off Layer Width](#)
Accepted for publication in JOURNAL OF NUCLEAR MATERIALS (May 2010)

Raman R, et al.
[Reduction of Low-Z Impurities During Plasma Start-Up Through the Application of Large Surface Area Biased Electrode Discharges](#)
Accepted for publication in JOURNAL OF NUCLEAR MATERIALS (May 2010)

Gray, TK, et al.
[Dependence of Divertor Heat Flux Widths on Heating Power, Flux Expansion and Plasma Current in NSTX](#)
Accepted for publication in JOURNAL OF NUCLEAR MATERIALS (May 2010)

Ahn, J-W, et al.
[Characteristics of Heat and particle Flux Deposition in 3D Field Applied H-mode Plasmas in NSTX](#)
Accepted for publication in JOURNAL OF NUCLEAR MATERIALS (May 2010)

Friesen FQL, John B, Skinner CH, et al.
[Evaluation of an Electrostatic Dust Removal System with Potential Application in Next-Step Fusion Devices](#)
Accepted for publication in REVIEW OF SCIENTIFIC INSTRUMENTS (2011)

Canik J, et al.
[Measurements and 2-D Modeling of Particle Balance, Recycling and Core Fueling in Discharges with Lithium-Coated PFCs in NSTX](#)
Accepted for publication in JOURNAL OF NUCLEAR MATERIALS (May 2010)

Kaye, SM, Maingi R, Battaglia D, et al.
[L-H Threshold Studies in NSTX](#)
Submitted to NUCLEAR FUSION (DECEMBER 2010)

Sontag AC, Canik JM, Maingi R, et al.
[Pedestal characterization and stability of small-ELM regimes in NSTX](#)
Submitted to NUCLEAR FUSION (JAN 2011)

Raman R, Ahn J-W, Allain JP, et al.,
[Overview of Physics results from NSTX](#)
Submitted to NUCLEAR FUSION (JAN 2011)

Diallo A, Maingi R, Kubota S, et al.
[Dynamical Evolution of Pedestal Parameters in ELMy H-mode in the National Spherical Torus Experiment](#)
Submitted to NUCLEAR FUSION (March 2011)

Raman R, Jardin SC, Menard J, et al.,
[Transient CHI Start-up Simulations with the TSC Code](#)
Submitted to NUCLEAR FUSION (March 2011)

Peterson, JL, Hammett, GW, Mikkelsen DR, et al.
[An Enhanced Non-Linear Critical Gradient for Electron Turbulent Transport Due to Reversed Magnetic Shear](#)
Submitted to PHYSICAL REVIEW LETTERS (April 2011)

Berkery, JW, Betti, R, and Sabbagh, SA
[Investigation of Multiple Roots of the Resistive Wall Mode Dispersion Relation, Including Kinetic Effects](#)
Submitted to PHYSICS OF PLASMAS (April 2011)

Kugel H, et al.
[NSTX Plasma Response to Lithium Coated Divertor](#)
Submitted for publication in JOURNAL OF NUCLEAR MATERIALS (May 2010)

Stotler, D, et al.
[Simulations of Diffusive Lithium Evaporation onto the NSTX Vessel Walls](#)
Submitted for publication in JOURNAL OF NUCLEAR MATERIALS (May 2010)

Taylor, CN, et al.
[Surface Chemistry and Physics of D-Retention in Lithiated Graphite](#)
Submitted for publication in JOURNAL OF NUCLEAR MATERIALS (May 2010)

Nichols, J, et al.

[3D Reconstruction of Pre-Characterized Lithium Dust Particle Trajectories in NSTX](#)

Submitted for publication in JOURNAL OF NUCLEAR MATERIALS (May 2010)

Sontag AC, Canik JM, Maingi R, et. al.,

[Pedestal characterization and stability of small ELM regimes in NSTX](#)

Submitted to NUCLEAR FUSION (2011)

Boyle D, Maingi R, Snyder PB, et. al.,

[Edge profile and stability analysis as ELMs disappear with increasing lithium wall coatings in NSTX](#)

Submitted to PLASMA PHYSICS AND CONTROLLED FUSION (2011)

Gerhardt SP, Fredrickson E, Guttadora L, et al.

[Techniques for the Measurement of Disruption Halo Currents in the National Spherical Torus Experiment](#)

Submitted to REVIEW OF SCIENTIFIC INSTRUMENTS (2011)

Jaworski MA, Bell MG, Gray TK, et al.

[Modification of the Electron Energy Distribution Function During Lithium Experiments on the National Spherical Tokamak Experiment](#)

Submitted to FUSION ENGINEERING AND DESIGN (2011)

Surla V, Jaworski MA, Gray TK, et al.

[Characterization of Transient Particle Heat Loads During Lithium Experiments on the National Spherical Torus Experiment](#)

Submitted to FUSION ENGINEERING AND DESIGN (2011)

Ono M, Bell MG, Kaita R, et al.

[Recent Progress of NSTX Lithium Program and Opportunities for Magnetic Fusion Research](#)

Submitted to FUSION ENGINEERING AND DESIGN (2011)

Kugel HW, Allain JP, Bell MG, et al.

[NSTX Plasma Operation with a Liquid Lithium Divertor](#)

Submitted to FUSION ENGINEERING AND DESIGN (2011)

Crocker NA, Peebles WA, Kubota S, et al.

[High Spatial Sampling Global Mode Structure Measurements via Multichannel Reflectometry in NSTX](#)

Submitted to PLASMA PHYSICS AND CONTROLLED FUSION (2011)

Buttery R, Gerhardt SP, R.J. LaHaye RJ, et al.

[The Impact of 3-D Fields on Tearing Mode Stability of H-modes](#)

Submitted to NUCLEAR FUSION (2011)

Menard, JE, Bromberg L, Brown T, et al.

[Prospects for Pilot Plants Based on the Tokamak, Spherical Tokamak and Stellarator](#)

Submitted to NUCLEAR FUSION (2011)