

10 Publications

10.1 REFEREED JOURNAL PUBLICATIONS

1. **Radiation-induced changes in electrical and proton conductivities of $\text{BaCe}_{0.9}\text{Y}_{0.1}\text{O}_{3-\delta}$ upon irradiation by electron beams**
Tsuchiya B, Morono A, Hodgson E R, Nagata S, Shikama T
Solid State Ionics **181**, 92 (2010)
2. **Theoretical investigation of the Pt_3Al ground state**
Chauke H R, Minisini B, Drautz R, Nguyen-Manh D, Ngoepe P E, Pettifor D G
Intermetallics **18**, 417 (2010)
3. **Geometry and expected performance of the solid tungsten outer divertor row in JET**
Rapp J, Pintsuk G, Mertens Ph, Altmann H, Lomas P J, Riccardo V
Fusion Engineering and Design **85**, 53 (2010)
4. **Fast ion stabilization of the ion temperature gradient driven modes in the Joint European Torus hybrid-scenario plasmas: A trigger mechanism for internal transport barrier formation**
Romanelli M, Zocco A, Crisanti F, JET-EFDA contributors
Plasma Physics and Controlled Fusion **52**, 045007 (2010)
5. **Self-consistent transport simulations of COMPASS operation with optimized NBI**
Urban J, Stransky M, Fuchs V, Voitsekhovitch I, Valovič M
Plasma Physics and Controlled Fusion **52**, 045008 (2010)
6. **Modelling resonant field amplification due to low- n peeling modes in JET**
Liu Y Q, Saarelma S, Gryaznevich M P, Hender T C, Howell D F
Plasma Physics and Controlled Fusion **52**, 045011 (2010)
7. **Effect of ELMs on rotation and momentum confinement in H-mode discharges in JET**
Versloot T W, de Vries P C, Giroud C, Hua M-D, Beurskens M N A, Brix M, Eich T, de la Luna E, Tala T, Naulin V, Zastrow K D, JET-EFDA contributors
Plasma Physics and Controlled Fusion **52**, 045014 (2010)

10 Publications

8. **Modelling of (2,1) NTM threshold in JET advanced scenarios**
Maget P, Lutjens H, Coelho R, Alper B, Brix M, Buratti P, Buttery R J, De la Luna E, Hawkes N, Huysmans G T A, Jenkins I, Challis C D, Giroud C, Litaudon X, Mailloux J, Ottaviani M, JET-EFDA contributors
Nuclear Fusion **50**, 045004 (2010)
9. **Neutron emission from beryllium reactions in JET deuterium plasmas with ^3He minority**
Gatu Johnson M, Hellesen C, Andersson Sunden E, Cecconello M, Conroy S, Ericsson G, Gorini G, Kiptily V, Nocente M, Pinches S, Ronchi E, Sharapov S, Sjostrand H, Tardocchi M, Weiszflog M, JET-EFDA contributors
Nuclear Fusion **50**, 045005 (2010)
10. **Saturated ideal modes in advanced tokamak regimes in MAST**
Chapman I T, Hua M-D, Pinches S D, Akers R J, Field A R, Graves J P, Hastie R J, Michael C A, MAST Team
Nuclear Fusion **50**, 045007 (2010)
11. **Progress in understanding error-field physics in NSTX spherical torus plasmas**
Menard J E, Bell R E, Gates D A, Gerhardt S P, Park J K, Sabbagh S A, Berkery J W, Egan A, Kallman J, Kaye S M, LeBlanc B, Liu Y Q, Sontag A, Swanson D, Yuh H, Zhu W
Nuclear Fusion **50**, 045008 (2010)
12. **Absolute calibration of LIDAR Thomson scattering systems by rotational Raman scattering**
Scannell R, Beurskens M, Kempenaars M, Naylor G, Walsh M, O'Gorman T, Pasqualotto R
Review of Scientific Instruments **81**, 045107 (2010)
13. **MARTE: A multiplatform real-time framework**
Neto A C, Sartori F, Piccolo F, Vitelli R, De Tommasi G, Zabeo L, Barbalace A, Fernandes H, Valcarcel D F, Batista A J N
IEEE Transactions on Nuclear Science **57**, 479 (2010)
14. **ATCA control system hardware for the plasma vertical stabilization in the JET tokamak**
Batista A J N, Neto A, Correia M, Fernandes A M, Carvalho B B, Fortunato J C, Sousa J, Varandas C A F, Sartori F, Jennison M
IEEE Transactions on Nuclear Science **57**, 583 (2010)

15. **Concepts, design, and development of a multiplatform framework for real-time control in nuclear fusion**
Barbalace A, Luchetta A, Manduchi G, Moro M, Soppelsa A, Taliercio C, Neto A, Zabeo L
IEEE Transactions on Nuclear Science **57**, 688 (2010)
16. **Global two-fluid turbulence simulations of L-H transitions and edge localized mode dynamics in the COMPASS-D tokamak**
Thyagaraja A, Valovič M, Knight P J
Physics of Plasmas **17**, 042507 (2010)
17. **A new calibration code for the JET polarimeter**
Gelfusa M, Murari A, Gaudio P, Boboc A, Brombin M, Orsitto F P, Giovannozzi E, JET-EFDA contributors
Review of Scientific Instruments **81**, 053507 (2010)
18. **Magnetic cluster expansion model for bcc-fcc transitions in Fe and Fe-Cr alloys**
Lavrentiev M Yu, Nguyen-Manh D, Dudarev S L
Physical Review B **81**, 184202 (2010)
19. **Test particle analysis in L- and H-mode simulations**
Sanchez Burillo G, Ph. van Milligen B, Thyagaraja A
Physics of Plasmas **17**, 052304 (2010)
20. **Direct multiscale coupling of a transport code to gyrokinetic turbulence codes**
Barnes M, Abel I G, Dorland W, Gorler T, Hammett G W, Jenko F
Physics of Plasmas **17**, 056109 (2010)
21. **A new sawtooth control mechanism relying on toroidally propagating ion cyclotron resonance frequency waves: Theory and Joint European Torus tokamak experimental evidence**
Graves J P, Chapman I T, Coda S, Johnson T, Lennholm M, JET-EFDA contributors
Physics of Plasmas **17**, 056118 (2010)

22. **Observation of confined current ribbon in JET Plasmas**
Solano E R, Lomas P J, Alper B, Xu G S, Andrew Y, Arnoux G, Boboc A, Barrera L, Belo P, Beurskens M N A, Brix M, Crombe K, de la Luna E, Devaux S, Eich T, Gerasimov S, Giroud C, Harting D, Howell D, Huber A, Kocsis G, Korotkov A, Lopez-Fraguas A, Nave M F F, Rachlew E, Rimini F, Saarelma S, Sirinelli A, Pinches S D, Thomsen H, Zabeo L, Zarzoso D
Physical Review of Letters **104**, 185003 (2010)
23. ***Ab initio* multi-string Frenkel-Kontorova model for a $b = a/2[111]$ screw dislocation in bcc iron**
Gilbert M R, Dudarev S L
Philosophical Magazine **90**, 1035 (2010)
24. **Experimental verification of sawtooth control by energetic particles in ion cyclotron resonance heated JET tokamak plasmas**
Graves J P, Chapman I T, Coda S, Johnson T, Lennholm M, Alper B, de Baar M, Crombe K, Eriksson L-G, Felton R, Howell D, Kiptily V, Koslowski H R, Mayoral M-L, Monakhov I, Nunes I, Pinches S D, JET-EFDA contributors
Nuclear Fusion **50**, 052002 (2010)
25. **Modelling with COREDIV Code of JET ILW Configuration**
Zagorski R, Telesca G, Fundamenski W, McCormick K
Contributions to Plasma Physics **50**, 306 (2010)
26. **Influence of JET divertor geometry on the H-mode power threshold**
Kalupin D, Andrew Y, Corrigan G, Parail V, Spence J, Tokar M, Zagorski R, Wiese S
Contributions to Plasma Physics **50**, 356 (2010)
27. **Prediction of yield stress and Charpy transition temperature in highly neutron irradiated ferritic steels**
Windsor C, Cottrell G, Kemp R
Modelling and Simulation in Materials Science and Engineering **18**, 055012 (2010)
28. **Transport simulation of ELM pacing by pellet injection in tokamak plasmas**
Ki Min Kim, Yong-Su Na, Sang Hee Hong, Lang P T, Alper B, JET-EFDA contributors
Nuclear Fusion **50**, 055002 (2010)

29. **Saturated internal instabilities in advanced-tokamak plasmas**
Hua M D, Chapman I T, Pinches S D, Hastie R J, MAST team
EPL **90**, 55001 (2010)
30. **Overview of L-H power threshold studies in NSTX**
Maingi R, Kaye S M, Bell R E, Biewer T M, Chang C S, Gates D A, Gerhardt S P, Hosea J, LeBlanc B P, Meyer H, Mueller D, Park G-Y, Raman R, Sabbagh S A, Stevenson T A, Wilson J R
Nuclear Fusion **50**, 064010 (2010)
31. **A generic data structure for integrated modelling of tokamak physics and subsystems**
Imbeaux F, Lister J B, Huysmans G T A, Zwingmann W, Airaj M, Appel L, Basiuk V, Coster D, Eriksson L-G, Guillerminet B, Kalupin D, Konz C, Manduchi G, Ottaviani M, Pereverzev G, Peysson Y, Sauter O, Signoret J, Strand P, ITM-TF work programme contributors
Computer Physics Communications **181**, 987 (2010)
32. **Fundamental role of ion viscosity on fast magnetic reconnection in large-guide-field regimes**
Simakov A N, Chacon L, Zocco A
Physics of Plasmas **17**, 060701 (2010)
33. **Langevin model for real-time Brownian dynamics of interacting nanodefects in irradiated metals**
Dudarev S L, Gilbert M R, Arakawa K, Mori H, Yao Z, Jenkins M L, Derlet P M
Physical Review B **81**, 224107 (2010)
34. **Ongoing ascent to the helium production plateau - insights from system dynamics**
Cai Z, Clarke R H, Glowacki B A, Nuttall W J, Ward N
Resources Policy **35**, 77 (2010)
35. **Momentum transport studies in JET H-mode discharges with an enhanced toroidal field ripple**
de Vries P C, Versloot T W, Salmi A, Hua M-D, Howell D H, Giroud C, Parail V, Saibene G, Tala T, JET-EFDA contributors
Plasma Physics and Controlled Fusion **52**, 065004 (2010)
36. **Magnetofluid dynamics of magnetized cosmic plasma: Firehose and gyrothermal instabilities**
Schekochihin A A, Cowley S C, Rincon F, Rosin M S
Monthly Notices of The Royal Astronomical Society **405**, 291 (2010)

37. **Ion beam micro analysis of deposits at tokamak divertor surfaces**
Pettersson P, Bergsaker H, Possnert G, Coad J P, Koivuranta S, Likonen J
Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms **268**, 1838 (2010)
38. **Erosion and re-deposition processes in JET tiles studied with ion beams**
Alves L C, Alves E, Barradas N P, Mateus R, Carvalho P, Coad J P, Widdowson A M, Likonen J, Koivuranta S
Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms **268**, 1991 (2010)
39. **Analyses of dust samples collected in the MAST tokamak**
Arnas C, Pardanaud C, Martin C, Roubin P, De Temmerman G, Counsell G
Journal of Nuclear Materials **401**, 130 (2010)
40. **Manufacture and test of a prototype cyanate ester coil**
Davis S R, Voss G M
IEEE Transactions on Applied Superconductivity **20**, 1479 (2010)
41. **LH power deposition and CD efficiency studies by application of modulated power at JET**
Kirov K K, Baranov Yu, Mailloux J, Mayoral M-L, Nave M F F, Ongena J, JET-EFDA contributors
Nuclear Fusion **50**, 075003 (2010)
42. **Demonstration of ITER operational scenarios on DIII-D**
Doyle E J, DeBoo J C, Ferron J R, Jackson G L, Luce T C, Murakami M, Osborne T H, Park J-M, Politzer P A, Reimerdes H, Budny R V, Casper T A, Challis C D, Groebner R J, Holcomb C T, Hyatt A W, La Haye R J, McKee G R, Petrie T W, Petty C C, Rhodes T L, Shafer M W, Snyder P B, Strait E J, Wade M R, Wang G, West W P, Zeng L
Nuclear Fusion **50**, 075005 (2010)

43. **Neoclassical tearing mode (NTM) magnetic spectrum and magnetic coupling in JET tokamak**
 Baruzzo M, Alper B, Bolzonella T, Brix M, Buratti P, Challis C D, Crisanti F, de la Luna E, de Vries P C, Giroud C, Hawkes N C, Howell D F, Imbeaux F, Joffrin E, Koslowski H R, Litaudon X, Mailloux J, Sips A C C, Tudisco O, JET-EFDA contributors
 Plasma Physics and Controlled Fusion **52**, 075001 (2010)

44. **The application of classification methods in a data driven investigation of the JET L-H transition**
 Meakins A J, McDonald D C, EFDA-JET contributors
 Plasma Physics and Controlled Fusion **52**, 075005 (2010)

45. **Modelling the effect of cross-field diffusion on tearing mode stability**
 James M, Wilson H R, Connor J W
 Plasma Physics and Controlled Fusion **52**, 075008 (2010)

46. **A code to solve the Vlasov-Fokker-Planck equation applied to particle transport in magnetic turbulence**
 Hornsby W A, Bell A R, Kingham R J, Dendy R O
 Plasma Physics and Controlled Fusion **52**, 075011 (2010)

47. **Analysis of fuel retention on MAST by global gas balance**
 Huang J, Lisgo S, Maddison G, MAST Team
 Plasma Physics and Controlled Fusion **52**, 075012 (2010)

48. **Active excitation and damping rate measurement of intermediate- n toroidal Alfvén eigenmodes in JET, C-Mod and MAST plasmas**
 Fasoli A, Testa D, Panis T, Klein A, Snipes J A, Sears J, Gryaznevich M, Martin R, Pinches S D, JET-EFDA contributors
 Plasma Physics and Controlled Fusion **52**, 075015 (2010)

49. **Edge turbulence and flows in the presence of resonant magnetic perturbations on MAST**
 Tamain P, Kirk A, Nardon E, Dudson B, Hnat B, MAST team
 Plasma Physics and Controlled Fusion **52**, 075017 (2010)

50. **Surface analysis of CVD diamond exposed to fusion plasma**
 Porro S, De Temmerman, MacLaren D A, Lisgo S, Rudakov D L, Westerhout J, Wiora M, John P, Villalpando I, Wilson J I B
 Diamond and Related Materials **19**, 818 (2010)

51. **Fusion power: A challenge for materials science**
Duffy D M
Philosophical Transactions Of The Royal Society A -
Mathematical Physical and Engineering Sciences **368**, 3315
(2010)
52. **Absolute calibration of LIDAR Thomson scattering systems
on large fusion devices**
Scannell R, Naylor G, Walsh M
Journal of Physics: Conference Series **227**, 012028 (2010)
53. **Analysis of the JET FIR interferometer beam phase
changes during plasmas and application for fast fringe
jump corrections by electronics**
Gil C, Boboc A, Barbuti A, Pastor P, JET-EFDA contributors
Journal of Physics: Conference Series **227**, 012032 (2010)
54. **Self-force on dislocation segments in anisotropic crystals**
Fitzgerald S P, Aubry S
Journal of Physics:Condensed Matter **22**, 295403 (2010)
55. **Resonant field amplification with feedback-stabilized
regime in current driven resistive wall mode**
Liu Y, Chu M S, In Y, Okabayashi M
Physics of Plasmas **17**, 072510 (2010)
56. **An FPGA based control unit for synchronization of laser
Thomson scattering measurements to plasma events on
MAST**
Naylor G A
Fusion Engineering and Design **85**, 280 (2010)
57. **The MAST data acquisition upgrade**
McArdle G J, Shibaev S, Storrs J, Thomas-Davies N,
Stephen R
Fusion Engineering and Design **85**, 345 (2010)
58. **Continuous data recording on fast real-time systems**
Zabeo L, Sartori F, Neto A, Piccolo F, Alves D, Vitelli R,
Barbalace A, De Tommasi G, JET-EFDA contributors
Fusion Engineering and Design **85**, 374 (2010)

59. **Scientific component framework for W7-X using service oriented GRID middleware**
 Werner A, Svensson J, Kuhner G, Bluhm T, Heimann P, Jakob S, Hennig C, Kroiss H, Laqua H, Lewerentz M, Riemann H, Schacht J, Spring A, Zilker M, Maier J
 Fusion Engineering and Design **85**, 394 (2010)
60. **The JET Intershot Analysis: Current infrastructure and future plans**
 Layne R, Cook N, Harting D, McDonald D C, Tidy C, JET-EFDA contributors
 Fusion Engineering and Design **85**, 403 (2010)
61. **Implications for ITER CODAC from DIII-D experience**
 Walker M L, Ferron J R, Humphreys D A, Hyatt A W, Johnson R D, Leuer J A, Penaflor B G, Piglowski D A, Sammuli B S, Welander A S, Bongard M W, Gates D, Hahn S H, McArdle G J, Squitieri A A, Xiao B
 Fusion Engineering and Design **85**, 433 (2010)
62. **The PCU JET Plasma Vertical Stabilization control system**
 Sartori F, Barbalace A, Batista A J N, Bellizio T, Card P, De Tommasi G, Mc Cullen P, Neto A, Piccolo F, Vitelli R, Zabeo L, JET-EFDA contributors
 Fusion Engineering and Design **85**, 438 (2010)
63. **Real-time software for the COMPASS tokamak plasma control**
 Valcarcel D F, Duarte A S, Neto A, Carvalho I S, Carvalho B B, Fernandes H, Sousa J, Sartori F, Janky F, Cahyna P, Hron M, Panek R
 Fusion Engineering and Design **85**, 470 (2010)
64. **Real-time remote diagnostic monitoring test-bed in JET**
 Castro R, Kneupner K, Vega J, De Arcas G, Lopez J M, Purahoo K, Murari A, Fonseca A, Pereira A, Portas A, JET-EFDA contributors
 Fusion Engineering and Design **85**, 598 (2010)
65. **Securing MDSplus in a multi-organisation environment**
 Castro R, Vega J, Fredian T, Purahoo K, Pereira A, Portas A
 Fusion Engineering and Design **85**, 614 (2010)

66. **Control and acquisition for MAST Thomson scattering diagnostics**
Shibaev S, Naylor G, Scannell R, McArdle G, O’Gorman T, Walsh M J
Fusion Engineering and Design **85**, 683 (2010)
67. **Laser photodetachment neutraliser for negative ion beams**
Kovari M, Crowley B
Fusion Engineering and Design **85**, 745 (2010)
68. **Activation analysis and waste management of China ITER helium cooled solid breeder test blanket module**
Han J R, Chen Y X, Han R, Feng K M, Forrest R A
Fusion Engineering and Design **85**, 761 (2010)
69. **Transitional modelling of the neutral gas in the JET neutraliser**
Porton M, Shapiro E, Drikakis D
Fusion Engineering and Design **85**, 789 (2010)
70. **Particle Transport of LHD**
Tanaka K, Kawahata K, Tokuzawa T, Akiyama T, Yokoyama M, Shoji M, Michael C A, Vyacheslavov L N, Murakami S, Wakasa A, Mishchenko A, Muraoka K, Okajima S, Takenaga H, LHD Experiment Group
Fusion Science and Technology **58**, 70 (2010)
71. **Interferometer systems on LHD**
Akiyama T, Kawahata K, Tanaka K, Tokuzawa T, Ito Y, Okajima S, Nakayama K, Michael C A, Vyacheslavov L N, Sanin A, Tsuji-lio S, LHD Experiment Group
Fusion Science and Technology **58**, 352 (2010)
72. **Developments of electron cyclotron emission spectroscopy and microwave reflectometry on LHD**
Tokuzawa T, Kawahata K, Nagayama Y, Inagaki S, De Vries P C, Mase A, Kogi Y, Yokota Y, Hojo H, Tanaka K, Ejiri A, Pavlichenko R O, Yamaguchi S, Yoshinaga T, Kuwahara D, Shi Z, Tsuchiya H, Ito Y, Hirokura S, Sudo S, Komori A, LHD Experiment Group
Fusion Science and Technology **58**, 364 (2010)

73. **Study of JET soft housekeeping waste treatment by plasma arc centrifuge combustion and gasification in countercurrent regime**
 Bernstein L A, Perevezentsev A N, Rivkis L A, Semenov A A, Safronov B V, Chukanov A P, Polianczyk E V, Manelis G B, Glazov S V, Revelsky I A, Brodsky E S, Kapinus E N
 Fusion Science and Technology **58**, 625 (2010)
74. **Neural computing methods to determine the relevance of memory effects in nuclear fusion**
 Murari A, Vagliasindi G, De Fiore S, Arena E, Arena P, Fortuna L, Andrew Y, Johnson M, JET-EFDA contributors
 Fusion Science and Technology **58**, 695 (2010)
75. **The negative ion flux across a double sheath at the formation of a virtual cathode**
 McAdams R, Bacal M
 Plasma Sources Science and Technology **19**, 042001 (2010)
76. **On steady poloidal and toroidal flows in tokamak plasmas**
 McClements K G, Hole M J
 Physics of Plasmas **17**, 082509 (2010)
77. **Modelling and TOFOR measurements of scattered neutrons at JET**
 Gatu Johnson M, Conroy S, Cecconello M, Andersson Sunden E, Ericsson G, Gherendi M, Hellesen C, Hjalmarsson A, Murari A, Popovichev S, Ronchi E, Weiszflog M, Zoita V L, JET-EFDA contributors
 Plasma Physics and Controlled Fusion **52**, 085002 (2010)
78. **Inboard and outboard electron temperature profile measurements in JET using ECE diagnostics**
 Barrera L, de la Luna E, Figini L, Beurskens M N A, Brix M, Castejon F, de Vries P C, Farina D, Kempenaars M, Lomas P, Mailloux J, Nunes I, Solano E R, JET-EFDA contributors
 Plasma Physics and Controlled Fusion **52**, 085010 (2010)
79. **Neutron spectroscopy measurements and modeling of neutral beam heating fast ion dynamics**
 Hellesen C, Albergante M, Andersson Sunden E, Ballabio L, Conroy S, Ericsson G, Gatu Johnson M, Giacomelli L, Gorini G, Hjalmarsson A, Jenkins I, Kallne J, Ronchi E, Sjostrand H, Tardocchi M, Voitsekhovitch I, Weiszflog M, JET-EFDA contributors
 Plasma Physics and Controlled Fusion **52**, 085013 (2010)

80. **Doppler broadening of gamma ray lines and fast ion distribution in JET plasmas**
Kiptily V G, Gorini G, Tardocchi M, de Vries P C, Cecil F E, Chugunov I N, Craciunescu T, Gatu Johnson M, Gin D, Goloborod'ko V, Hellesen C, Johnson T, Kneupner K, Murari A, Nocente M, Perelli E, Pietropaolo A, Pinches S D, Proverbio I, Sanchez P G, Sharapov S E, Shevelev A E, Syme D B, Yavorskij V, Zoita V L, JET-EFDA contributors
Nuclear Fusion **50**, 084001 (2010)
81. **Measurements of fast ions and their interactions with MHD activity using neutron emission spectroscopy**
Hellesen C, Gatu Johnson M, Andersson Sunden E, Conroy S, Ericsson G, Eriksson J, Gorini G, Johnson T, Kiptily V G, Pinches S D, Sharapov S E, Sjostrand H, Nocente M, Tardocchi M, Weiszflog M, JET-EFDA contributors
Nuclear Fusion **50**, 084006 (2010)
82. **MeV-range fast ion losses induced by fishbones on JET**
Perez von Thun C, Perona A, Johnson T, Sharapov S E, Reich M, Kiptily V G, Ceconello M, Salmi A, Ya Goloborod'ko V, Pinches S D, Garcia-Munoz M, Darrow D, Brix M, Voitsekhovitch I, JET-EFDA contributors
Nuclear Fusion **50**, 084009 (2010)
83. **Fast ion redistribution and losses in JET advanced tokamak scenario**
Nabais F, Kiptily V G, Pinches S D, Sharapov S E, JET-EFDA contributors
Nuclear Fusion **50**, 084021 (2010)
84. **Multiresonance effect in Type-I edge-localized mode control with low n fields on JET**
Liang Y, Gimblett C G, Browning P K, Devoy P, Koslowski H R, Jachmich S, Sun Y, Wiegmann C
Physical Review Letters **105**, 065001 (2010)
85. **Application of canonical profiles transport model to the H-mode shots in tokamaks**
Dnestrovskij Y N, Dnestrovskij A Y, Danilov A V, Lysenko S E, Cherkasov S V, Gerasimov S N, Hender T C, Voitsekhovitch I A, Roach C M, Walsh M J
Plasma Physics Reports **36**, 645 (2010)
86. **Effects of α particles on the resistive wall mode stability in ITER**
Yueqiang Liu
Nuclear Fusion **50**, 095008 (2010)

87. **Particle transport in low core turbulence Tore-Supra plasmas**
 Guirlet R, Sirinelli A, Parisot T, Sabot R, Artaud J F, Bourdelle C, Garbet X, Hennequin P, Hoang G T, Imbeaux F, Segui J L, Mazon D, Villegas D
 Nuclear Fusion **50**, 095009 (2010)
88. **Influence of magnetic field ripple on the intrinsic rotation of tokamak plasmas**
 Nave M F F, Johnson T, Eriksson L-G, Crombe K, Giroud C, Mayoral M-L, Ongena J, Salmi A, Tala T, Tsalas M
 Physical Review Letters **105**, 105005 (2010)
89. **Temperature for a dynamic spin ensemble**
 Ma P W, Dudarev S L, Semenov A A, Woo C H
 Physical Review E **82**, 031111 (2010)
90. **Effect of dynamical friction on nonlinear energetic particle modes**
 Lilley M K, Breizman B N, Sharapov S E
 Physics of Plasmas **17**, 092305 (2010)
91. **Perturbative studies of toroidal momentum transport using neutral beam injection modulation in the Joint European Torus: Experimental results, analysis methodology, and first principles modeling**
 Mantica P, Tala T, Ferreira J S, Peeters A G, Salmi A, Strintzi D, Weiland J, Brix M, Giroud C, Corrigan G, Naulin V, Tardini G, Zastrow K-D
 Physics of Plasmas **17**, 092505 (2010)
92. **The software architecture of the new vertical-stabilization system for the JET tokamak**
 Bellizio T, De Tommasi G, McCullen P, Neto A C, Piccolo F, Sartori F, Vitelli R, Zabeo L
 IEEE Transactions on Plasma Science **38**, 2465 (2010)
93. **Thermographic study of heat load asymmetries during MAST L-mode discharges**
 De Temmerman G, Delchambre E, Dowling J, Kirk A, Lisgo S, Tamain P
 Plasma Physics and Controlled Fusion **52**, 095005 (2010)

94. **Requirements for active resistive wall mode (RWM) feedback control**
In Y, Chu M S, Jackson G L, Kim J S, La Haye R J, Liu Y Q, Marrelli L, Okabayashi M, Reimerdes H, Strait E J
Plasma Physics and Controlled Fusion **52**, 104004 (2010)
95. **Empirical scaling of sawtooth period for onset of neoclassical tearing modes**
Chapman I T, Buttery R J, Coda S, Gerhardt S, Graves J P, Howell D F, Isayama A, La Haye R J, Liu Y, Maget P, Maraschek M, Sabbagh S, Sauter O, the ASDEX Upgrade, DIII-D, HL-2A, JT-60U, MAST, NSTX, TCV, Tore Supra Teams, JET-EFDA contributors
Nuclear Fusion **50**, 102001 (2010)
96. **Observation and analysis of pellet material ∇B drift on MAST**
Garzotti L, Baylor L, Kochl F, Pegourie B, Valovič M, Axon K B, Dowling J, Gurl C, Maddison G P, Nehme H, O'Gorman T, Patel A, Price M, Scannell R, Walsh M
Nuclear Fusion **50**, 105002 (2010)
97. **Dust creation and transport in MAST**
De Temmerman G, Bacharis M, Dowling J, Lisgo S
Nuclear Fusion **50**, 105012 (2010)
98. **Cluster expansion models for Fe-Cr alloys, the prototype materials for a fusion power plant**
Lavrentiev M Yu, Nguyen-Manh D, Dudarev S L
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224. **Using Bernstein wave emission to measure the current in the tokamak edge**
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225. **Resolving the plasma electron temperature pedestal in JET from Thomson scattering core LIDAR data**
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231. **Validation procedure of the tokamak equilibrium reconstruction code EQUAL with a scientific workflow system**
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260. **Dynamics of blobs: Statistical analysis based on the international edge turbulence data base**
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261. **Internal transport barriers in the MAST spherical tokamak**
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262. **Carbon Transport in MAST**
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263. **Extrapolation of JET hybrid scenario fusion performance to larger device**
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266. **Momentum transport studies in JET H-mode discharges with an enhanced toroidal field ripple**
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308. **The impact of 3-D fields on tearing mode stability of H-modes**
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