

# 10 Publications

## 10.1 REFEREED JOURNAL PUBLICATIONS

1. **A destabilizing effect of rotation shear on magnetohydrodynamic ballooning modes**  
Connor J W, Hastie R J, Webster A J  
Physics of Plasmas **14**, 044504 (2007)
2. **On the magnitude and distribution of halo currents during disruptions on MAST**  
Counsell G F, Martin R, Pinfeld T, Taylor D, MAST team  
Plasma Physics and Controlled Fusion **49**, 435 (2007)
3. **Pellet ablation and mass deposition in FTU: analysis of vertical and low field side injection experiments**  
Terranova D, Garzotti L, Pegourie B, Nehme H, Frigione D, Martini S, Giovannozzi E, Tudisco O  
Nuclear Fusion **47**, 288 (2007)
4. **Method for experimental determination of Z dependence of impurity transport on JET**  
Giroud C, Barnsley R, Buratti P, Coffey I H, von Hellermann M, Jupen C, Lawson K D, Meigs A, O'Mullane M, Whiteford A D, Zastrow K-D, JET EFDA contributors  
Nuclear Fusion **47**, 313 (2007)
5. **Large-scale molecular dynamics simulation of magnetic properties of amorphous iron under pressure**  
Ma Pui Wa, Liu W C, Woo C H, Dudarev S L  
Journal of Applied Physics **101**, 073908 (2007)
6. **Evolution of the millimeter-wave collective Thomson scattering system of the high-field tokamak Frascati Tokamak Upgrade**  
Tartari U, Grosso G, Granucci G, Gandini F, Garavaglia S, Grossetti G, Simonetto A, Melleria V, Muzzini V, Lubyako L, Shalashov A, Orsitto F P, Ciccone G, Volpe F  
Review of Scientific Instruments **78**, 043506 (2007)
7. **Nuclear reaction analysis with ion microbeam of cross sections of surface layers deposited in a tokamak divertor**  
Bergsaker H, Emmoth B, Petersson P, Possnert G, Coad J P, Likonen J, Renvall T  
Journal of Nuclear Materials **362**, 215 (2007)
8. **Joint experiments on small tokamaks: edge plasma studies on CASTOR**  
Van Oost G, Berta M, Brotankova J, Dejarnac R, Del Bosco E, Dufkova E, Gryaznevich M P, Horacek J, Hron M, Malaquias A, Mank G, Peleman P, Sentkerestiova J, Stockel J, Weinzettl V, Zoletnik S, Tal B, Ferrera J, Fonseca A, Hegazy H, Kuznetsov Y, Ossyannikov A, Singh A, Sokholov M, Talebitaher A  
Nuclear Fusion **47**, 378 (2007)
9. **Dissipative processes in interchange driven scrape-off layer turbulence**  
Fundamenski W, Garcia O E, Naulin V, Pitts R A, Nielsen A H, Juul Rasmussen J, Horacek J, Graves J P, JET EFDA contributors  
Nuclear Fusion **47**, 417 (2007)

10. **Discrepancy between modelled and measured radial electric fields in the scrape-off layer of divertor tokamaks: a challenge for 2D fluid codes?**  
Chan Kin A V, Coster D P, Asakura N, Bonnin X, Conway G D, Corrigan G, Erents S K, Fundamenski W, Horacek J, Kallenbach A, Kaufmann M, Konz C, Lackner K, Muller H W, Neuhauser J, Pitts R A, Wischmeier M  
Nuclear Fusion **47**, 479 (2007)
11. **On the relationship between ELM filaments and solar flares**  
Fundamenski W, Naulin V, Neukirch T, Garcia O E, Juul Rasmussen J  
Plasma Physics and Controlled Fusion **49**, R43 (2007)
12. **ELM resolved energy distribution studies in the JET MKII Gas-Box divertor using infra-red thermography**  
Eich T, Andrew P, Herrmann A, Fundamenski W, Loarte A, Pitts R A, JET-EFDA contributors  
Plasma Physics and Controlled Fusion **49**, 573 (2007)
13. **Progress towards an integrated solution for the ITER baseline scenario based on high current and highly shaped plasma operation at JET**  
Buttery R J, Loarte A, Lomas P J, Mantica P, McDonald D C, Saarelma S, Sartori R, Saibene G, JET-EFDA contributors  
Plasma Physics and Controlled Fusion **49**, A59 (2007)
14. **Fusion, space and solar plasmas as complex systems**  
Dendy R O, Chapman S C, Paczusi M  
Plasma Physics and Controlled Fusion **49**, A95 (2007)
15. **Particle and impurity transport in the Axial Symmetric Divertor Experiment Upgrade and the Joint European Torus, experimental observations and theoretical understanding**  
Angioni C, Carraro L, Dannert T, Dubuit N, Dux R, Fuchs C, Garbet X, Garzotti L, Giroud C, Guirlet R, Jenko F, Kardaun O J W F, Lauro-Taroni L, Mantica P, Maslov M, Naulin V, Neu R, Peeters A G, Pereverzev G, Puiatti M E, Putterich T, Stober J, Valovič M, Valisa M, Weisen H, Zabolotsky A  
Physics of Plasmas **14**, 055905 (2007)
16. **Progress in the ITER Physics Basis. Chapter 1: Overview and summary**  
Shimada M, Campbell D J, Mukhovatov V, Fujiwara M, Kirneva N, Lackner K, Nagami M, Pustovitov V D, Uckan N, Wesley J, Asakura N, Costley A E, Donne A J H, Doyle E J, Fasoli A, Gormezano C, Gribov Y, Gruber O, Hender T C, Houlberg W, Ide S, Kamada Y, Leonard A, Lipschultz B, Loarte A, Miyamoto K, Mukhovatov V, Osborne T H, Polevoi A, Sips A C C  
Nuclear Fusion **47**, S1 (2007)
17. **Progress in the ITER Physics Basis. Chapter 2: Plasma confinement and transport**  
Doyle E J, Houlberg W A, Kamada Y, Mukhovatov V, Osborne T H, Polevoi A, Bateman G, Connor J W, Cordey J G, Fujita T, Garbet X, Hahm T S, Horton L D, Hubbard A E, Imbeaux F, Jenko F, Kinsey J E, Kishimoto Y, Li J, Luce T C, Martin Y, Ossipenko M, Parail V, Peeters A, Rhodes T L, Rice J E, Roach C M, Rozhansky V, Ryter F, Saibene G, Sartori R, Sips A C C, Snipes J A, Sugihara M, Synakowski E J, Takenaga H, Takizuka T, Thomsen K, Wade M R, Wilson H R, ITPA Transport Physics Topical Group, ITPA Confinement Database and Modelling Topical Group and ITPA Pedestal and Edge Topical Group  
Nuclear Fusion **47**, S18 (2007)

18. **Progress in the ITER Physics Basis. Chapter 3: MHD stability, operational limits and disruptions**  
Hender T C, Wesley J C, Bialek J, Bondeson A, Boozer A H, Buttery R J, Garofalo A, Goodman T P, Granetz R S, Gribov Y, Gruber O, Gryaznevich M, Giruzzi G, Gunter S, Hayashi N, Helander P, Hegna C C, Howell D F, Humphreys D A, Huysmans G T A, Hyatt A W, Isayama A, Jardin S C, Kawano Y, Kellman A, Kessel C, Koslowski H R, La Haye R J, Lazzaro E, Liu Y Q, Lukash V, Manickam J, Medvedev S, Mertens V, Mirnov S V, Nakamura Y, Navratil G, Okabayashi M, Ozeki T, Paccagnella R, Pautasso G, Porcelli F, Pustovitov V D, Riccardo V, Sato M, Sauter O, Schaffer M J, Shimada M, Sonato P, Strait E J, Sugihara M, Takechi M, Turnbull A D, Westerhof E, Whyte D G, Yoshino R, Zohm H, ITPA MHD, Disruption and Magnetic Control Topical Group  
*Nuclear Fusion* **47**, S128 (2007)
19. **Progress in the ITER Physics Basis. Chapter 4: Power and particle control**  
Loarte A, Lipschultz B, Kukushkin A S, Matthews G F, Stangeby P C, Asakura N, Counsell G F, Federici G, Kallenbach A, Krieger K, Mahdavi A, Philipps V, Reiter D, Roth J, Strachan J, Whyte D, Doerner R, Eich T, Fundamenski W, Herrmann A, Fenstermacher M, Ghendrih P, Groth M, Kirschner A, Konoshima S, LaBombard B, Lang P, Leonard A W, Monier-Garbet P, Neu R, Pacher H, Pegourie B, Pitts R A, Takamura S, Terry J, Tsitrone E, ITPA Scrape-off Layer and Divertor Physics Topical Group  
*Nuclear Fusion* **47**, S203 (2007)
20. **Progress in the ITER Physics Basis. Chapter 5: Physics of energetic ions**  
Fasoli A, Gormenzano C, Berk H L, Breizman B, Briguglio S, Darrow D S, Gorelenkov N, Heidbrink W W, Jaun A, Konovalov S V, Nazikian R, Noterdaeme J-M, Sharapov S, Shinohara K, Testa D, Tobita K, Todo Y, Vlad G, Zonca F  
*Nuclear Fusion* **47**, S264 (2007)
21. **Progress in the ITER Physics Basis. Chapter 6: Steady state operation**  
Gormezano C, Sips A C C, Luce T C, Ide S, Becoulet A, Litaudon X, Isayama A, Hobirk J, Wade M R, Oikawa T, Prater R, Zvonkov A, Lloyd B, Suzuki T, Barbato E, Bonoli P, Phillips C K, Vdovin V, Joffrin E, Casper T, Ferron J, Mazon D, Moreau D, Bundy R, Kessel C, Fukuyama A, Hayashi N, Imbeaux F, Murakami M, Polevoi A R, St John H E  
*Nuclear Fusion* **47**, S285 (2007)
22. **Progress in the ITER Physics Basis. Chapter 9: ITER contributions for Demo plasma development**  
Mukhovatov V, Shimada M, Lackner K, Campbell D J, Uckan N A, Wesley J C, Hender T C, Lipschultz B, Loarte A, Stambaugh R D, Goldston R J, Shimomura Y, Fujiwara M, Nagami M, Pustovitov V D, Zohm H, ITPA CC Members, ITPA Topical Group Chairs and Co-Chairs and the ITER International Team  
*Nuclear Fusion* **47**, S404 (2007)
23. **An ITER-like wall for JET**  
Pamela J, Matthews G F, Philipps V, Kamendje R, JET-EFDA contributors  
*Journal of Nuclear Materials* **363-365**, 1 (2007)
24. **Tungsten erosion in the outer divertor of JET**  
Mayer M, Likonen J, Coad J P, Maier H, Balden M, Lindig S, Vainonen-Ahlgren E, Philipps V, JET-EFDA contributors  
*Journal of Nuclear Materials* **363-365**, 101 (2007)
25. **Post mortem analysis of a JET quartz microbalance system**  
Esser H G, Philipps V, Wienhold P, Sugiyama K, Kreter A, Coad J P, Tanabe T, JET-EFDA contributors  
*Journal of Nuclear Materials* **363-365**, 146 (2007)

26. **Erosion and transport of Sn and In in the SOL of MAST plasmas**  
Foster A R, Counsell G F, Summers H P  
Journal of Nuclear Materials **363-365**, 152 (2007)
27. **Structural studies of deposited layers on JET MkII-SRP inner divertor tiles**  
Likonen J, Coad J P, Vainonen-Ahlgren E, Renvall T, Hole D E, Rubel M, Widdowson A, JET-EFDA contributors  
Journal of Nuclear Materials **363-365**, 190 (2007)
28. **Erosion and deposition in the JET MkII-SRP divertor**  
Coad J P, Andrew P, Erents S K, Hole D E, Likonen J, Mayer M, Pitts R, Rubel M, Strachan J D, Vainonen-Ahlgren E, Widdowson A, JET-EFDA contributors  
Journal of Nuclear Materials **363-365**, 287 (2007)
29. **ELM-wall interaction on JET and ITER**  
Fundamenski W, Pitts R A, JET EFDA contributors  
Journal of Nuclear Materials **363-365**, 319 (2007)
30. **Efficacy of photon cleaning of JET divertor tiles**  
Widdowson A, Coad J P, Bekris N, Counsell G, Forrest M J, Gibson K J, Hole D, Likonen J, Parsons W, Renvall T, Rubel M, JET-EFDA contributors  
Journal of Nuclear Materials **363-365**, 341 (2007)
31. **Improved radiation measurements on JET - First results from an upgraded bolometer system**  
Huber A, McCormick K, Andrew P, de Baar M R, Beaumont P, Dalley S, Fink J, Fuchs J C, Fullard K, Fundamenski W, Ingesson L C, Kirnev G, Lomas P, Mast F, Jachmich S, Matthews G F, Mertens Ph, Meigs A, Philipps V, Rappa J, Saibene G, Sanders S, Sartori R, Stamp M F, Zeidner W, JET-EFDA contributors  
Journal of Nuclear Materials **363-365**, 365 (2007)
32. **Role of recycling in JET trace tritium transport experiments**  
Hillis D L, Hogan J, Zastrow K-D, Parail V, Coster D, Reiter D, Brezinsek S, Pospieszczyk A, Stamp M, Fundamenski W, McDonald D C, JET EFDA contributors  
Journal of Nuclear Materials **363-365**, 498 (2007)
33. **Parallel SOL flow on TCV**  
Pitts R A, Horacek J, Fundamenski W, Garcia O E, Nielsen A H, Wischmeier M, Naulin V, Juul Rasmussen J  
Journal of Nuclear Materials **363-365**, 505 (2007)
34. **The filamentary structure of ELMs in the scrape-off layer in ASDEX Upgrade**  
Herrmann A, Kirk A, Schmid A, Koch B, Laux M, Maraschek M, Mueller H W, Neuhauser J, Rohde V, Tsalas M, Wolfrum E, ASDEX Upgrade Team  
Journal of Nuclear Materials **363-365**, 528 (2007)
35. **EDGE2D modelling of JET and ITER including the combined effect of guiding centre drifts and an edge transport barrier**  
Erents S K, Fundamenski W, Corrigan G, Matthews G F, Zagorski R, EFDA-JET Contributors  
Journal of Nuclear Materials **363-365**, 565 (2007)
36. **Turbulent transport in the TCV SOL**  
Garcia O E, Pitts R A, Horacek J, Nielsen A H, Fundamenski W, Graves J P, Naulin V, Juul Rasmussen J  
Journal of Nuclear Materials **363-365**, 578 (2007)

37. **Modeling of the parametric dependence of the edge toroidal rotation for MAST and ASDEX Upgrade**  
Rozhansky V, Molchanov P, Voskoboynikov S, Counsell G, Kirk A, Coster D, Schneider R  
Journal of Nuclear Materials **363-365**, 664 (2007)
38. **Molecular (H/D/T) sources in JET**  
Pospieszczyk A, Brezinsek S, Meigs A, Mertens Ph, Sergienko G, Stamp M, JET-EFDA contributors  
Journal of Nuclear Materials **363-365**, 811 (2007)
39. **Tritium distribution measurement of JET Mk II SRP divertor tiles**  
Tanabe T, Sugiyama K, Renvall T, Likonen J, Penttinen L, Vainonen-Ahlgren E, Coad J P  
Journal of Nuclear Materials **363-365**, 960 (2007)
40. **First measurements of main chamber power load during JET disruptions**  
Andrew P, Alonzo A, Arnoux G, Gauthier E, Paley J I, Riccardo V, JET EFDA contributors  
Journal of Nuclear Materials **363-365**, 1006 (2007)
41. **Plasma wall interaction during ELMs in JET**  
Gauthier E, Andrew P, Arnoux G, Corre Y, Roche H, JET-EFDA contributors  
Journal of Nuclear Materials **363-365**, 1026 (2007)
42. **Divertor particle and power deposition profiles in JET ELMy H-mode discharges**  
Jachmich S, Eich T, Fundamenski W, Kallenbach A, Pitts R A, JET-EFDA contributors  
Journal of Nuclear Materials **363-365**, 1050 (2007)
43. **Observation of ELM structures in MAST and AUG using a fast camera**  
Koch B, Herrmann A, Kirk A, Meyer H, Dowling J, Harhausen J, Neuhauser J, Muller H W, Bohmeyer W, Fussmann G, AUG Team, MAST Team  
Journal of Nuclear Materials **363-365**, 1056 (2007)
44. **Hydrocarbon injection for quantification of chemical erosion yields in tokamaks**  
Brezinsek S, Pospieszczyk A, Borodin D, Stamp M F, Pugno R, McLean A G, Fantz U, Manhard A, Kallenbach A, Brooks N H, Groth M, Mertens Ph, Philipps V, Samm U, TEXTOR, ASDEX Upgrade, DIII-D Teams and JET-EFDA contributors  
Journal of Nuclear Materials **363-365**, 1119 (2007)
45. **In-situ tokamak laser applications for detritiation and co-deposited layers studies**  
Grisolia C, Semerok A, Weulersse J M, Le Guern F, Fomichev S, Brygo F, Fichet P, Thro P Y, Coad P, Bekris N, Stamp M, Rosanvallon S, Piazza G  
Journal of Nuclear Materials **363-365**, 1138 (2007)
46. **Surface modification and hydrogen isotope retention in CFC during plasma irradiation in the Tore Supra tokamak**  
Begrambekov L, Brosset C, Bucalossi J, Delchambre E, Gunn J P, Grisolia C, Lipa M, Loarer T, Mitteau R, Moner-Garbet P, Pascal J-Y, Shigin P, Titov N, Tsitron E, Vergazov S, Zakharov A  
Journal of Nuclear Materials **363-365**, 1148 (2007)

47. **Tungsten coatings for the JET ITER-like wall project**  
Maier H, Neu R, Greuner H, Hopf Ch, Matthews G F, Piazza G, Hirai T, Counsell G, Courtois X, Mitteau R, Gauthier E, Likonen J, Maddaluno G, Philipps V, Riccardi B, Ruset C, and EFDA-JET Team  
Journal of Nuclear Materials **363-365**, 1246 (2007)
48. **Power load during disruption in MAST**  
Delchambre E, Counsell G, Kirk A, Lott F  
Journal of Nuclear Materials **363-365**, 1409 (2007)
49. **Measurements of MeV particles from JET fusion plasmas based on the activation technique**  
Bonheure G, Hult M, Gasparro J, Popovichev S, JET EFDA contributors  
Physica Scripta **75**, 769 (2007)
50. **Modelling of ELM-averaged power exhaust on JET using the EDGE2D code with variable transport coefficients**  
Kirnev G, Fundamenski W, Corrigan G  
Plasma Physics and Controlled Fusion **49**, 689 (2007)
51. **XSC tools: A software suite for tokamak plasma shape control design and validation**  
De Tommasi G, Albanese R, Ambrosino G, Ariola M, Mattei M, Pironti A, Sartori F, Villone F  
IEEE Transactions on Plasma Science **35**, 709 (2007)
52. **Method of volume reduction for JET soft housekeeping waste**  
Perevezentsev A N, Bell A C, Andreev B M, Selivanenko I L, Rozenkevich M B  
Fusion Science and Technology **52**, 75 (2007)
53. **Experimental trials of methods for metal detritiation for JET**  
Perevezentsev A N, Bell A C, Rivkis L A, Filin V M, Gushin V V, Belyakov M I, Bulkin V I, Prykina I G, Kravchenko I M, Semenov A A, Davidov A I, Eliseev S P, Titov D V  
Fusion Science and Technology **52**, 84 (2007)
54. **Clearance considerations for slightly-irradiated components of fusion power plants**  
El-Guebaly L, Pampin R, Zucchetti M  
Nuclear Fusion **47**, S480 (2007)
55. **A zero-waste option: recycling and clearance of activated vanadium alloys**  
Zucchetti M, Bartenev S A, Ciampichetti A, Forrest R, Kolbasov B N, Romanov P V, Romanovskij V N  
Nuclear Fusion **47**, S477 (2007)
56. **Characteristics of the H-mode pedestal in improved confinement scenarios in ASDEX Upgrade, DIII-D, JET and JT-60U**  
Maggi C F, Groebner R J, Oyama N, Sartori R, Horton L D, Sips A C C, Suttrop W, the ASDEX Upgrade Team, Leonard A, Luce T C, Wade M R, the DIII-D Team, Kamada Y, Urano H, the JT-60U Team, Andrew Y, Giroud C, Joffrin E, de la Luna and EFDA-JET Contributors for the Pedestal and Edge Physics and the Steady State Operation Topical Groups of the ITPA  
Nuclear Fusion **47**, 535 (2007)
57. **Modelling of alpha-particle behaviour in H-mode plasmas with trace tritium at JET**  
Voitsekhovitch I, Kiptily V, Goloborod'ko V, Popovichev S, Yavorskij V, Zastrow K-D  
Nuclear Fusion **47**, 599 (2007)

58. **Fluctuations and transport in the TCV scrape-off layer**  
Garcia O E, Horacek J, Pitts R A, Nielsen A H, Fundamenski W, Naulin V, Juul Rasmussen J  
Nuclear Fusion **47**, 667 (2007)
59. **Revision of the inventory and recycling scenario of active material in near-term PPCS models**  
Pampin R, Massaut V, Taylor N P  
Nuclear Fusion **47**, S469 (2007)
60. **Exhaust properties of centre-column-limited plasmas on MAST**  
Maddison G P, Akers R J, Brickley C, Gryaznevich M P, Lott F C, Patel A, Sykes A, Turner A, Valovič M  
Nuclear Fusion **47**, 634 (2007)
61. **Active Control of Type-I Edge-Localized Modes with  $n = 1$  Perturbation Fields in the JET Tokamak**  
Liang Y, Koslowski H R, Thomas P R, Nardon E, Alper B, Andrew P, Andrew Y, Arnoux G, Baranov Y, Becoulet M, Beurskens M, Biewer T, Bigi M, Crombe K, De La Luna E, de Vries P, Fundamenski W, Gerasimov S, Giroud C, Gryaznevich M P, Hawkes N, Hotchin S, Howell D, Jachmich S, Kiptily V, Moreira L, Parail V, Pinches S D, Rachlew E, Zimmermann O  
Physical Review of Letters **98**, 265004 (2007)
62. **Modeling sawtooth stabilization by energetic ions from neutral beam injection**  
Chapman I T, Pinches S D, Appel L C, Hastie R J, Hender T C, Saarelma S, Sharapov S E, Voitsekhovitch I, Graves J P  
Physics of Plasmas **14**, 070703 (2007)
63. **Edge localized modes: recent experimental findings and related issues**  
Kamiya K, Asakura N, Boedo J, Eich T, Federici G, Fenstermacher M, Finken K, Herrmann A, Terry J, Kirk A, Koch B, Loarte A, Maingi R, Maqueda R, Nardon E, Oyama N, Sartori R  
Plasma Physics and Controlled Fusion **49**, S43 (2007)
64. **Compressional Alfvén and ion-ion hybrid modes in the deuterium-tritium plasma of a spherical tokamak power plant**  
Lilley M K, Sharapov S E  
Physics of Plasmas **14**, 082501 (2007)
65. **Numerical study of linear dissipative drift electrostatic modes in tokamaks**  
Romanelli M, Regnoli G, Bourdelle C  
Physics of Plasmas **14**, 082305 (2007)
66. **Development of Electron Bernstein Wave Research in MAST**  
Shevchenko V, Cunningham G, Gurchenko A, Gusakov E, Lloyd B, O'Brien M, Saveliev A, Surkov A, Volpe F, Walsh M  
Fusion Science and Technology **52**, 202 (2007)
67. **Materials challenges for ITER - Current status and future activities**  
Barabash V, Peacock A, Fabritsiev S, Kalinin G, Zinkle S, Rowcliffe A, Rensman J-W, Tavassoli A A, Marmy P, Karditsas P J, Gillemot F, Akiba M  
Journal of Nuclear Materials **367-370**, 21 (2007)

68. **Molecular dynamics modelling of radiation defects in ferromagnetic  $\alpha$ - iron**  
Dudarev S L, Derlet P M  
Journal of Nuclear Materials **367-370**, 251 (2007)
69. **Systematic group-specific trends for point defects in bcc transition metals: An ab initio study**  
Nguyen-Manh D, Dudarev S L, Horsfield A P  
Journal of Nuclear Materials **367-370**, 257 (2007)
70. **Diffraction imaging and diffuse scattering by small dislocation loops**  
Zhou Z, Dudarev S L, Jenkins M L, Sutton A P, Kirk M A  
Journal of Nuclear Materials **367-370**, 305 (2007)
71. **Neural network analysis of Charpy transition temperature of irradiated low-activation martensitic steels**  
Cottrell G A, Kemp R, Bhadeshia H K D H, Odette G R, Yamamoto Y  
Journal of Nuclear Materials **367-370**, 603 (2007)
72. **Recycling of vanadium alloys in fusion reactors**  
Bartenev S A, Ciampichetti A, Firsin N G, Forrest R A, Kolbasov B N, Kvasnitskij I B, Romanov P V, Romanovskij V N, Zucchetti M  
Journal of Nuclear Materials **367-370**, 892 (2007)
73. **Thermal release rate of tritium trapped in bulk and plasma exposed surfaces of carbon specimens obtained from JET divertor**  
Bekris N, Coad J P, Skinner C H, Gentile C A, Damm E, Nagele W  
Journal of Nuclear Materials **367-370**, 1254 (2007)
74. **The value of materials R&D in the fast track development of fusion power**  
Ward D J, Taylor N P, Cook I  
Journal of Nuclear Materials **367-370**, 1350 (2007)
75. **The feasibility of recycling and clearance of active materials from fusion power plants**  
Zucchetti M, El-Guebaly L A, Forrest R A, Marshall T D, Taylor N P, Tobita K  
Journal of Nuclear Materials **367-370**, 1355 (2007)
76. **Overview of co-deposition and fuel inventory in castellated divertor structures at JET**  
Rubel M J, Coad J P, Pitts R A, Contributors to the JET-EFDA Workprogramme  
Journal of Nuclear Materials **367-370**, 1432 (2007)
77. **R&D on tungsten plasma facing components for the JET ITER-like wall project**  
Piazza G, Matthews G F, Pamela J, Altmann H, Coad J P, Hirai T, Lioure A, Maier H, Mertens Ph, Philipps V, Riccardo V, Rubel M, Villedieu E, Collaborators of the JET ITER-like Project  
Journal of Nuclear Materials **367-370**, 1438 (2007)
78. **Preliminary assessment of the safety of IFMIF**  
Taylor N P, Branas B, Eriksson E, Natalizio A, Pinna T, Rodrez-Rodrigo L, Ciattaglia S, Lasser R  
Journal of Nuclear Materials **367-370**, 1537 (2007)
79. **Neutron and deuteron activation calculations for IFMIF**  
Forrest R A, Loughlin M J  
Journal of Nuclear Materials **367-370**, 1568 (2007)

80. **Designing optimised experiments for the International Fusion Materials Irradiation Facility**  
Kemp R, Cottrell G A, Bhadeshia H K D H  
Journal of Nuclear Materials **367-370**, 1586 (2007)
81. **A possible role of radial electric field in driving parallel ion flow in scrape-off layer of divertor tokamaks**  
Chanin A V, Coster D P, Asakura N, Corrigan G, Erents S K, Fundamenski W, Muller H W, Pitts R A, Stangeby P C, Wischmeier M  
Nuclear Fusion **47**, 762 (2007)
82. **ELM triggering by local pellet perturbations in type-I ELMy H-mode plasma at JET**  
Lang P T, Alper B, Buttery R, Gal K, Hobirk J, Neuhauser J, Stamp M, JET-EFDA contributors  
Nuclear Fusion **47**, 754 (2007)
83. **Micro-tearing modes in the mega ampere spherical tokamak**  
Applegate D J, Roach C M, Connor J W, Cowley S C, Dorland W, Hastie R J, Joiner N  
Plasma Physics and Controlled Fusion **49**, 1113 (2007)
84. **Evolution of the pedestal on MAST and the implications for ELM power loadings**  
Kirk A, Counsell G F, Cunningham G, Dowling J, Dunstan M, Meyer H, Price M, Saarelma S, Scannell R, Walsh M, Wilson H R, MAST team  
Plasma Physics and Controlled Fusion **49**, 1259 (2007)
85. **Propagation velocity of changes to confinement**  
Christiansen J P  
Plasma Physics and Controlled Fusion **49**, 1309 (2007)
86. **BCC Fe surface and cluster magnetism using a magnetic potential**  
Van Zwol P, Derlet P M, Van Swygenhoven H, Dudarev S L  
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87. **Building blocks of amorphous Ge<sub>2</sub>Sb<sub>2</sub>Te<sub>5</sub>**  
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