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Alm, B.; Knitter, R.

Characterization of lithium orthosilicate pebbles for HELICA and HEXCALIBER experiments.

Ying, A. [Hrsg.]

Proc. of the 13th Internat. Workshop on Ceramic Breeder Blanket Interactions (CBBI-13), Santa Barbara, Calif., November 30 - December 2, 2005

Los Angeles, Calif. : UCLA, 2005 S.61-67

Böttcher, M.; Gordeev, S.; Krüßmann, R.

Numerical study of flow in a bend configuration using different CFD codes.

Jahrestagung Kerntechnik 2006, Aachen, 16.-18.Mai 2006

Berlin : INFORUM GmbH, 2006 S.549-52

Gordeev, S.; Heinzl, V.; Krüßmann, R.; Norajitra, P.; Weggen, J.

Thermal-hydraulic analysis of He-cooled divertor mock-up tested in the He-loop HEBLO.

Jahrestagung Kerntechnik 2006, Aachen, 16.-18.Mai 2006

Berlin : INFORUM GmbH, 2006 S.553-57

Ihli, T.; Hermsmeyer, S.; Köhly, C.; Norajitra, P.

Integration of an advanced He-cooled divertor in a DEMO-relevant Tokamak geometry.

Fusion Engineering and Design, 81(2006) S.121-26

Knitter, R.; Löbbbecke, B.

Reprocessing of lithium orthosilicate pebbles.

14th Internat. Workshop on Ceramic Breeder Blanket Interactions (CBBI-14), Petten, NL,

September 6-8, 2006

Knitter, R.; Alm, B.; Odemer, C.

Thermal investigations of glassy lithium orthosilicate pebbles.

Ying, A. [Hrsg.]

Proc. of the 13th Internat. Workshop on Ceramic Breeder Blanket Interactions (CBBI-13), Santa Barbara, Calif., November 30 - December 2, 2005

Los Angeles, Calif. : UCLA, 2005 S.143-49

Krauss, W.; Holstein, N.; Konys, J.; Mazul, I.

Investigation of the impact of fabrication methods on the microstructure features of W-components of a He-cooled divertor.

Fusion Engineering and Design, 81(2006) S.259-64

Krauss, W.; Konys, J.; Novotny, J.; Steiner, H.; Voss, Z.; Wedemeyer, O.
Materials and coating development for tritium control in TBM's.
IEA Liquid Breeder Workshop, St. Petersburg, Russia, June 7-9, 2006

Krauss, W.; Holstein, N.; Konys, J.
Strategies in electrochemical machining of W for divertor application.
24th Symp. on Fusion Technology (SOFT 2006), Warszawa, PL, September 11-15, 2006

Krauss, W.; Holstein, N.; Konys, J.
Verfahren zur elektrochemischen Abtragung von Refraktärmetallen oder -legierungen und Lösung zur Durchführung dieses Verfahrens.
DE-OS 10 2004 060 507 (29.6.2006)
EP-OS 1 672 101 (21.6.2006)

Krüßmann, R.; Ihli, T.; Norajitra, P.
Helium-cooled divertor concept: CFD parametric study for design optimisation.
Jahrestagung Kerntechnik 2006, Aachen, 16.-18.Mai 2006
Berlin : INFORUM GmbH, 2006 S.558-61

Krüßmann, R.; Gordeev, S.; Norajitra, P.; Messemer, G.; Weggen, J.; Zinn, K.
Validation of computational fluid dynamics (CFD) tools for the development of a helium-cooled divertor.
24th Symp. on Fusion Technology (SOFT 2006), Warszawa, PL, September 11-15, 2006

Lindau, R.; Klimiankou, M.; Norajitra, P.; Weigert, J.
Electron beam welding of reduced activation ferritic martensitic ODS-EUROFER steel for application in helium cooled modular divertor concepts.
24th Symp. on Fusion Technology (SOFT 2006), Warszawa, PL, September 11-15, 2006
Book of Abstracts S.427

Maisonnier, D.; Cook, I.; Sardain, P.; Boccaccini, L.; Di Pace, L.; Giancarli, L.; Norajitra, P.; Pizzuto, A.
DEMO and fusion power plant conceptual studies in Europe.
7th Internat. Symp. on Fusion Nuclear Technology (ISFNT-7), Tokyo, J, May 22-27, 2005

Maisonnier, D.; Cook, I.; Sardain, P.; Boccaccini, L.; Di Pace, L.; Giancarli, L.; Norajitra, P.; Pizzuto, A.
DEMO and fusion power plant conceptual studies in Europe.
Fusion Engineering and Design, 81(2006) S.1123-30

Maisonnier, D.; Campbell, D.; Cook, I.; Di Pace, L.; Giancarli, L.; Hayward, J.; Li Puma, A.; Medrano, M.; Norajitra, P.; Roccella, M.; Sardain, P.; Tran, M.Q.; Ward, D.
Power plant conceptual studies in Europe.
21st IAEA Fusion Energy Conf., Chengdu, China, October 16-21, 2006

Norajitra, P.; Giniyatulin, R.; Ihli, T.; Janeschitz, G.; Krauss, W.; Krüßmann, R.; Kuznetsov, V.; Mazul, I.; Ovchinnikov, I.; Ruprecht, R.; Widak, V.; Zeep, B.
He-cooled divertor development for DEMO.
24th Symp. on Fusion Technology (SOFT 2006), Warszawa, PL, September 11-15, 2006

Norajitra, P.; Gervash, A.; Giniyatulin, R.; Janeschitz, G.; Krauss, W.; Kuznetsov, V.; Makhankov, A.; Mazul, I.; Ovchinnikov, I.
He-cooled divertor development: technological studies and HHF experiments for design verification.
21st IAEA Fusion Energy Conf., Chengdu, China, October 16-21, 2006 (Poster)

Norajitra, P.; Gervash, A.; Giniyatulin, R.; Ihli, T.; Krauss, W.; Krüßmann, R.; Kuznetsov, V.; Makhankov, A.; Mazul, I.; Ovchinnikov, I.
He-cooled divertor for DEMO: experimental verification of the conceptual modular design.
Fusion Engineering and Design, 81(2006) S.341-46

Norajitra, P.
He-gekühlter Divertor: Design, Werkstoff- und Prozessentwicklung.
Treffen der Materialforscher der Forschungszentren Karlsruhe und Jülich, Karlsruhe, 19.-20.Juni 2006

Norajitra, P.; Ruprecht, R.; Ihli, T.; Krüßmann, R.
Vorrichtung zum Temperieren einer Oberfläche.
DE-OS 10 2004 023 368 (8.12.2005)
DE-PS 10 2004 023 368 (1.3.2006)

Schroer, C.; Voß, Z.; Novotny, N.; Konys, J.
Quantification of the degradation of steels exposed to liquid lead-bismuth eutectic.
Wissenschaftliche Berichte, FZKA-7224 (Mai 2006)

Steiner, H.; Konys, J.
Oxidation and mass transfer in heavy liquid metal loops.
Wissenschaftliche Berichte, FZKA-7212 (April 2006)

Wondraczek, L.; Deubener, J.; Mixture, S.T.; Knitter, R.
Crystallization kinetics of lithium orthosilicate glasses.
Journal of the American Ceramic Society, 89(2006) S.1342-46

Wondraczek, L.; Misture, S.T.; Deubener, J.; Knitter, R.
Crystallization kinetics of lithium orthosilicate glasses.
Glass and Optical Materials Meeting, Greenville, S.C., May 16-19, 2006

Zeep, B.; Rath, S.; Norajitra, P.; Piotter, V.; Haußelt, J.
Metal injection molding of microstructured tungsten components for fusion applications.
2006 Internat. Conf. on Tungsten, Refractory and Hardmetals VI, Orlando, Fla., February 7-8, 2006

Zeep, B.; Norajitra, P.; Piotter, V.; Ruprecht, R.; Haußelt, J.
Net shaping of tungsten components by powder injection molding.
11th Internat. Workshop on Plasma-Facing Materials and Components for Fusion
Applications, Greifswald, October 10-12, 2006

Zeep, B.; Norajitra, P.; Piotter, V.; Böhm, J.; Ruprecht, R.; Haußelt, J.
Net shaping of tungsten components by micro powder injection moulding.
24th Symp. on Fusion Technology (SOFT 2006), Warszawa, PL, September 11-15, 2006

Zeep, B.; Piotter, V.; Torge, M.; Norajitra, P.; Ruprecht, R.; Haußelt, J.
Powder injection moulding of tungsten and tungsten alloys.
EURO PM2006 : Powder Metallurgy Congress and Exhibition, Gent, B, October 23-25, 2006
Proc.Vol.2 S.85-90