

吉田直亮教授の足跡

<https://doi.org/10.15017/27056>

出版情報：九州大学応用力学研究所所報. 137, pp.51-79, 2009-09. Research Institute for Applied Mechanics, Kyushu University

バージョン：

権利関係：

吉田直亮教授の足跡

I 吉田教授の略歴

1940年6月	広島県に生まれる
1968年3月	広島大学理学部物理学科卒業
1968年4月	大阪大学大学院基礎工学研究科物理専攻修士課程入学
1970年3月	大阪大学大学院基礎工学研究科物理専攻修士課程修了
1970年4月	大阪大学大学院基礎工学研究科物理系専攻博士課程進学
1973年3月	大阪大学大学院基礎工学研究科物理系専攻博士課程修了
1973年4月	日本学術振興会奨励研究員(大阪大学基礎工学部)
1975年2月	アレキサンダー・フォン・フンボルト財団(西独)奨学研究員 (マックス・プランク金属学研究所)
1976年9月	マックス・プランク金属学研究所(西独)客員研究員
1978年12月	大阪大学教務員(基礎工学部)
1980年3月	九州大学助手(応用力学研究所)
1980年11月	九州大学助教授(応用力学研究所)
1984年4月	九州大学教授(応用力学研究所)
1984年4月	九州大学大学院総合理工学研究科授業担当
1984年4月	九州大学大学院総合理工学研究科指導教官
2000年4月	九州大学大学院総合理工学府授業担当
2000年4月	九州大学大学院総合理工学府指導教官
2001年4月	九州大学応用力学研究所附属炉心理工学研究センター長
2009年3月	九州大学を定年退職
2009年4月	九州大学名誉教授

II 吉田教授最終講義の概要

2009年3月17日午後、九州大学筑紫地区共通管理棟・大会議室において、吉田直亮教授の最終講義が行われた。以下はその概要である。

「きのう・きょう・あす」

大阪大学大学院、マックス・プランク金属学研究所における照射損傷の基礎研究から出発し、九州大学における核融合炉の中性子照射効果やプラズマ壁相互作用の研究について1時間以上にわたって講演された。

特に、九州大学においてTRIAM計画にめぐり合い、透過型電子顕微鏡(TEM)等を駆使したプラズマ壁相互作用に研究に取り組むことが出来、他には無い独自の研究を展開することが出来た。その成果として、QUESTの建設や、核融合科学研究所・LHDの運転への貢献など材料の世界を飛び出した分野でも仕事をする事が出来た。基礎研究からの出発では有ったが、幸いそこで学んだ、“照射損傷のダイナミックプロセス”を学術的なベースとして展開することができた。材料の改良・開発に関する研究については、近年漸く着手したばかりであり不十分な成果。“PWI研究にTEMを!”のもとに共同利用・共同研究を進めてきた。かなり広がってきたが、道半ば。

III 研究論文等リスト

01. Anomalous Grain Growth of Gold Thin Films Made by Evaporation on Low Temperature Substrate
J. Phys. Soc. Jpn. 27 p.1079 (1969)
R. Oshima and N. Yoshida
02. Recovery and Grain Growth of Gold Thin Film Deposited on the Cold Substrate
J. Phys. F: Metal Phys. 2 p.237-246 (1972)
N. Yoshida, R. Oshima and F.E. Fujita
03. Influence of Oxygen on Vacuum Deposited Iron Thin Film
J. Phys. F: Metal Phys. 2 p.1009-1015 (1972)
N. Yoshida and F.E. Fujita
04. Recovery of Gold Thin Films Vacuum Deposited on a Substrate at Liquid Helium Temperature
J. Phys. Soc. Jpn. 33 p.858 (1972)
N. Yoshida, J. Hatakeyama, M. Kiritani and F.E. Fuji
05. Formation and Annihilation of Point Defect Clusters in Metals Irradiated by 3MV
Electron Microscope
Crystal Lattice Defects 3 p. 83-94 (1973)
M. Kiritani and N. Yoshida
06. An Evidence for a Long Range Interaction between a Dislocation and Interstitial Atoms
J. Phys. Soc. Jpn. 35 p.306 (1973)
M. Kiritani, N. Yoshida and H. Takata
07. Point Defect Clusters in Electron-Irradiated Gold
J. Phys. Soc. Jpn. 35 p.1418-1429 (1973)
N. Yoshida and M. Kiritani
08. Interaction of Point Defects with Various Interfaces in Electron Irradiated Metals
Proc. Int. Crystallography Conf., Melbourn p.241 (1974)
M. Kiritani, N. Yoshida, H. Takata and Y. Maehara
09. Liquid Helium Temperature Stage for a HVEM and Its Application to Metals
Proc. 8th Int. Cong. on Electron Microscopy, Canberra, Vol.1 p.172-173 (1974)
M. Kiritani, N. Yoshida, N. Sumida and I. Ishikawa
10. Nature of Lattice Vacancies in Metals Revealed by Electron Irradiation in HVEM
Proc. 8th Int. Cong. on Electron Microscopy, Canberra, Vol.1 p.444-445 (1974)
M. Kiritani, N. Yoshida, H. Takata and Y. Maehara
11. Clustering and Migration Property of Interstitial Atoms in Metals Studied by HVEM
Proc. 8th Int. Cong. on Electron Microscopy, Canberra, Vol.1 p.622-623 (1974)
M. Kiritani, N. Yoshida, H. Takata and Y. Maehara
12. Free Migration of Interstitial Atoms in Metals
J. Phys. Soc. Jpn. 36 p.613 (1974)
M. Kiritani and N. Yoshida
13. Interstitial Clusters in Electron Irradiated Aluminum
J. Phys. Soc. Jpn. 36 p.720-729 (1974)
M. Kiritani, N. Yoshida and H. Takata
14. Directional Arrangement of Defect Clusters in Electron-Irradiated Copper
J. Phys. Soc. Jpn. 38 p.1220 (1975)
N. Yoshida and M. Kiritani

15. Growth of Interstitial Type Dislocation Loops and Vacancy Mobility in Electron Irradiated Metals
J. Phys. Soc. Jpn. 38 p.1677-1686 (1975)
M. Kiritani, N. Yoshida, H. Takata and Y. Maehara
16. Electron Radiation Damage of Iron in High Voltage Electron Microscope
J. Phys. Soc. Jpn. 39 p.170-179 (1975)
N. Yoshida, M. Kiritani and F.E. Fujita
17. 電子顕微鏡による点欠陥の移動度の測定
電子顕微鏡 Vol.10 p.97-104 (1975)
桐谷道雄、吉田直亮
18. Long-Range Interaction between Radiation-Induced Point Defects and Dislocations
Proc. Int. Conf. on Fundamental Aspects of Radiation Damage in Metals, Gatlinburg
p.889-895 (1975)
M. Kiritani, H. Takata, N. Yoshida and Y. Maehara
19. Bloch Wave Channeling and Its Influence on the Atomic Displacement Rate in Electron Damage Experiments
6th European Congress on Electron Microscopy, Jerusalem, p.535-537 (1976)
K. Urban and N. Yoshida
20. Direct Evidence for a Very Low Atom Displacement Threshold Energy around the $\langle 110 \rangle$ Directions in Copper
Phys. Letters 63A p.381-383 (1977)
N. Yoshida and K. Urban
21. Electron Diffraction Channelling and Its Effect on Displacement Damage Formation
Proc. 5th Int. Conf. on High Voltage Electron Microscopy, Kyoto p.485-488 (1977)
N. Yoshida and K. Urban
22. Study of the Anisotropy of the Displacement Threshold Energy in Copper by Means of a New High-Resolution Technique
Proc. 5th Intconf. On High Voltage Electron Microscopy, Kyoto p.493-496 (1977)
N. Yoshida and K. Urban
23. The Effect of Electron Diffraction Channelling on the Displacement of Atoms in Electron-Irradiated Crystals
Radiation Effects 42 p.1-15 (1979)
K. Urban and N. Yoshida
24. An Investigation of the Temperature Dependence of the Threshold Energy for Atom Displacement in Electron-Irradiated Copper
Phys. Letters 75A p.231-233 (1980)
N. Yoshida and K. Urban
25. Simulation Irradiation Studies on BCC Metals
Rep. Res. Inst. Appl. Mech., Kyushu Univ. Vol. XXVIII No.90 p.9-25 (1981)
E. Kuramoto, N. Yoshida, N. Tsukuda, K. Kitajima, N.H. Packan and L.K. Mansur
26. W, Moにおけるブリスタリングの発生機構
核融合研究 Vol.45 別冊その2 p.63-70 (1981)
吉田直亮、蔵元英一、北島一徳
27. シミュレーション照射相互の相関について
核融合研究 Vol.45 別冊その2 p.123-129 (1981)

- 蔵元英一、吉田直亮、佃昇、北島一徳、N. H. Packan, L. K. Mansur
28. An Investigation of the Mobility of Vacancies and Interstitials in a Ag-9at.%Zn Alloy by Means of High-Voltage Electron Microscopy
Phil. Mag. A 43 p.1125-1138 (1981)
M. Halbwaches and N. Yoshida
 29. The Threshold Energy for Atom displacement in Irradiated Copper Studied by High-Voltage Electron Microscopy
Phil. Mag. A 44 p.1193-1212 (1981)
K. Urban and N. Yoshida
 30. Mechanism of Initial Processes of Blistering in BCC Metals
J. Nucl. Mater. 103-104 p.373-377 (1981)
N. Yoshida, E. Kuramoto and K. Kitajima
 31. Simulation Irradiation Studies on Iron
J. Nucl. Mater. 103-104 p.1091-1096 (1981)
E. Kuramoto, N. Yoshida, N. Tsukuda, K. Kitajima, N. H. Packan, M. B. Lewis and L. K. Mansur
 32. Effects of Cascade on the Evolution of Irradiated Structures in Metals
J. Nucl. Mater. 103-104 p.1355-1360 (1981)
K. Kitajima, N. Yoshida and E. Kuramoto
 33. Correlation among Damage Structures Irradiated with Cascades of Various PKA Energy Spectra
J. Nucl. Mater. 108-109 p.267-275 (1982)
K. Kitajima, E. Kuramoto and N. Yoshida
 34. The Temperature Dependence of the Displacement Threshold Energy in F. C. C. and B. C. C. Metals
Proc. Yamada Conf. V Point Def. Def. Int. in Metals, Kyoto p. 783-788 (1982)
K. Urban, B. Saile, N. Yoshida and W. Zag
 35. Localized Formation of Stacking Fault Tetrahedra by Electron Irradiation in FCC Metals
Proc. Yamada Conf. V Point Def. Def. Int. in Metals, Kyoto p. 795-798 (1982)
M. Suehiro, N. Yoshida and M. Kiritani
 36. A Role of Helium and Hydrogen Atoms in the Formation of Interstitial Loops
Proc. Yamada Conf. V Point Def. Def. Int. in Metals, Kyoto p. 869-872 (1982)
N. Yoshida, E. Kuramoto and K. Kitajima
 37. Mechanism of Void Formation of Iron and Iron-Alloys Irradiated by Electrons
Proc. Yamada Conf. V Point Def. Def. Int. in Metals, Kyoto p. 899-902 (1982)
E. Kuramoto, N. Yoshida and K. Kitajima
 38. Formation of Submicroscopic Vacancy Clusters and Radiation-Induced Refining in Metals by Electron-Irradiation at High Temperatures
Radiation Effects 61 p.117-126 (1982)
M. Kiritani, K. Urban and N. Yoshida
 39. ヘリウムイオン照射による照射欠陥の蓄積集合過程
九州大学応用力学研究所所報 Vol. 57 p. 577-594 (1982)
吉田直亮、蔵元英一、北島一徳
 40. ボイドスウェーリングの種々の側面ー陽電子消滅測定法を含むー
核融合研究 Vol. 49 別冊その1 p. 10-14 (1983)
蔵元英一、吉田直亮、北島一徳、長谷川雅幸

41. He+照射によるガス原子と照射欠陥の相互作用と蓄積過程
核融合研究 Vol.49 別冊その1 p.59-63 (1983)
吉田直亮、蔵元英一、北島一徳
42. The Japanese Experimental Program on RTNS-II of DT-Neutron Irradiation of Materials
J. Nucl. Mater. 122-123 p.602-607 (1984)
M. Kiritani, N. Yoshida and S. Ishino
43. Evolution of Damage Structures under 14MeV Neutron, 4MeV Ni Ion and 1.25MeV Electron Irradiation
J. Nucl. Mater. 122-123 p.664-668 (1984)
N. Yoshida, K. Kitajima and E. Kuramoto
44. タンデム加速器による金属及び合金の高エネルギー重イオン照射
九州大学応用力学研究所所報 Vol.60 p.227-240 (1984)
佃 昇、蔵元英一、吉田直亮、青野泰久、明石義人、竹中稔、北島一徳、御手洗志郎、磯矢彰
45. 低温照射したオーステナイト系ステンレス鋼の電気抵抗の回復
九州大学応用力学研究所所報 Vol.60 p.369-379 (1984)
安部博信、高村三郎、吉田直亮、北島一徳
46. A Study of Point Defect Processes in Candidate and Model Alloys for Fusion Reactor First Wall by HVEM
J. Nucl. Mater. 133-134, p.390-394 (1985)
T. Yoshiie, S. Kojima, Y. Sato, N. Yoshida and M. Kiritani
47. Formation of Secondary Defects in Copper by 14MeV Neutron Irradiation and Their Effects on Microstructure Evolution
J. Nucl. Mater. 133-134, p.405-409 (1985)
N. Yoshida, Y. Akashi, K. Kitajima and M. Kiritani
48. Development of Defect Structures from Displacement Cascade Damage in D-T Neutron Irradiated Gold
J. Nucl. Mater. 133-134, p.410-414 (1985)
M. Kiritani, Y. Shimomura, N. Yoshida, K. Kitagawa and T. Yoshiie
49. Application of a High Energy Tandem Accelerator to the Study of Radiation Damage Effects on the Stainless Steels
J. Nucl. Mater. 133-134, p.873-877 (1985)
N. Tsukuda, E. Kuramoto, Y. Aono, N. Yoshida, K. Kitajima, H. Abe, Y. Akasi, M. Takenaka, S. Mitarai and A. Isoya
50. Point Defect Behavior and Microstructural Evolution in Stainless Steels under HVEM Irradiations
Proc. Int. Symp. on "Behavior of Lattice Imperfections in Materials—In Situ Experiments with HVEM", Osaka p.18-20 (1985)
N. Yoshida, H. Murakami, T. Muroga
51. The Impact of Nonequilibrium Solute Segregation on HVEM Irradiation Studies
Proc. Int. Symp. on "Behavior of Lattice Imperfections in Materials—In Situ Experiments with HVEM", Osaka p.18-20 (1985)
T. Muroga, H. Murakami, N. Yoshida and K. Kitajima
52. Precipitate Resolution and Surface Segregation in Electron Irradiated Ni-Si Alloys
Proc. XIth Int. Cong. on Electron Microscopy, Kyoto p.1115 (1986)
H. Watanabe, T. Muroga, N. Yoshida and K. Kitajima

53. Point Defect Behavior and Microstructural Evolution in a Fe-Cr-Ni Alloy under HVEM Irradiation
Proc. XIth Int. Cong. on Electron Microscopy, Kyoto p.1123 (1986)
N. Yoshida, H. Murakami and T. Muroga
54. Conversion of Stacking Fault Tetrahedra to Voids in Electron Irradiated Fe-Cr-Ni
J. Nucl. Mater. 141-143, p. 763-766 (1986)
S. Kojima, Y. Sano, T. Yoshiie, N. Yoshida and M. Kiritani
55. Recoil Energy Effects on Cascade Defect Structures in D-T Neutron Irradiated Gold
J. Nucl. Mater. 141-143, p. 841-845 (1986)
T. Muroga and N. Yoshida
56. Damage Correlation of High Energy Ion and D-T Neutron Irradiations in Copper
J. Nucl. Mater. 141-143, p. 865-869 (1986)
T. Muroga, M. Eguchi, N. Yoshida, N. Tsukuda and K. Kitajima
57. フェライト系ステンレス鋼の低温照射後の電気抵抗の回復
九州大学応用力学研究所所報 Vol. 63 p. 143-154 (1987)
安部博信、高村三郎、吉田直亮、北島一徳
58. Key水素イオン照射による表面損傷と水素吸蔵
吉田直亮、荒木邦明、藤原正、宮本好雄、北島一徳
九州大学応用力学研究所所報 Vol. 63 p. 231-243 (1987)
59. 高エネルギー重イオン照射による核融合中性子損傷の評価
九州大学応用力学研究所所報 Vol. 63 p. 245-253 (1987)
室賀健夫、江口雅直、吉田直亮、佃昇、北島一徳
60. Ni-Si合金における照射誘起現象
九州大学応用力学研究所所報 Vol. 63 p. 255-266 (1987)
渡辺英雄、室賀健夫、吉田直亮、北島一徳
61. 強磁場トカマクTRIAM-1におけるリミター損傷
九州大学応用力学研究所所報 Vol. 63 p. 267-279 (1987)
徳永和俊、室賀健夫、吉田直亮、伊藤智之、TRIAMグループ
62. Defect Production and Accumulation in Copper Irradiated with High Energy Heavy Ions
Mater. Sci. Forum 15-18, p. 1087-1092 (1987)
T. Muroga, N. Yoshida, N. Tsukuda, K. Kitajima and M. Eguchi
63. Solute Segregation by Focused Electron Beam Irradiations in High Purity Stainless Steels
Mater. Sci. Forum 15-18, p. 1415-1420 (1987)
T. Muroga, N. Yoshida, Y. Miyamoto and H. Murakami
64. EDS Investigation of Solute-Precipitate Interactions in Ferritic Steels under Irradiation
Ultramicroscopy 22, p. 281-288 (1987)
T. Muroga, N. Yoshida and K. Kitajima
65. Positron Annihilation and Resistivity Recovery of Ni-Si Alloys Irradiated by 28MeV Electrons at 77K
Ann. Rep. Res. Reactor Inst. Kyoto Univ. 20, p.146-149 (1987)
H. Watanabe, H. Abe, E. Kuramoto and N. Yoshida
66. 14MeV中性子照射された高純度鉄及びモリブデン単結晶の塑性挙動及びその焼鈍効果
九州大学応用力学研究所所報 Vol. 65 p. 365-381 (1987)
青野泰久、蔵元英一、吉田直亮

67. 高速実験炉「常陽」を用いた材料照射研究と核分裂, 核融合中性子照射相関
九州大学応用力学研究所所報 Vol. 65 p. 409-424 (1987)
室賀健夫、荒木邦明、宮本好雄、吉田直亮
68. Fe-Cr-Ni合金の照射欠陥挙動に及ぼすリンの効果
九州大学応用力学研究所所報 Vol. 65 p. 425-446 (1987)
渡辺英雄、青木彰伸、室賀健夫、吉田直亮
69. 核融合炉候補材ステンレス鋼 (JPCA2) の重水素イオン照射損傷と重水素補足 機構
九州大学応用力学研究所所報 Vol. 65 p. 447-462 (1987)
芦塚紀尋、藤原正、栗田孝昭、室賀健夫、吉田直亮
70. オーステナイトステンレス鋼の照射欠陥挙動と組織変化に及ぼす微量リン添加の 効果
日本金属学会誌 Vol. 52 p. 536-545 (1988)
渡辺英雄、青木彰伸、村上英邦、室賀健夫、吉田直亮
71. Synergistic Effects of High-Heat Loading, Hydrogen and Impurity Deposition on Surface Modification of a Tokamak Limiter
J. Nucl. Mater. 155-157, p. 431-437 (1988)
N. Yoshida, K. Tokunaga, T. Muroga, Y. Miyamoto, S. Itoh and the TRIMA Group
72. Radiation Damage and Deuterium Trapping in Deuterium Ion Irradiated Austenitic Stainless Steel
J. Nucl. Mater. 155-157, p. 775-780 (1988)
N. Yoshida, N. Ashizuka, T. Fujiwara, T. Kurita and T. Muroga
73. Defect Accumulation in JPCA and its High Purity Model Alloys Irradiated with D-T Neutrons
J. Nucl. Mater. 155-157, p. 810-814 (1988)
T. Muroga, Y. Miyamoto, H. Watanabe and N. Yoshida
74. Effects of Phosphorus on Defect Behavior, Solute Segregation and Void Swelling in Electron Irradiated Fe-Cr-Ni Alloys
J. Nucl. Mater. 155-157, p. 815-822 (1988)
H. Watanabe, A. Aoki, H. Murakami, T. Muroga and N. Yoshida
75. Void Swelling in High Purity Fe-Cr-Ni and Fe-Cr-Ni-Ti Alloys Irradiated in Joyo
J. Nucl. Mater. 155-157, p. 1118-1122 (1988)
T. Muroga, K. Araki, Y. Miyamoto and N. Yoshida
76. The Effect of 14MeV Neutron Irradiation on the Mechanical Properties of High-Purity Iron and Molybdenum Single Crystals
J. Nucl. Mater. 155-157, p. 1164-1168 (1988)
Y. Aono, E. Kuramoto and N. Yoshida
77. Effects of Purity on Damage Evolution in Ni Irradiated by 14MeV Neutrons
J. Nucl. Mater. 155-157, p. 1222-1226 (1988)
N. Yoshida, T. Muroga, H. Watanabe, K. Araki and Y. Miyamoto
78. Fission-Fusion Correlation of Void Swelling in Pure Nickel
J. Nucl. Mater. 155-157, p.1290-1295 (1988)
T. Muroga, H. Watanabe, K. Araki and N. Yoshida
79. Characteristics of Point Defects and their Clustering in Pure Ferritic Steels
J. Nucl. Mater. 155-157, p. 1232-1236 (1988)
N. Yoshida, A. Yamaguchi, T. Muroga, Y. Miyamoto and K. Kitajima
80. Precipitate Resolution in an Electron Irradiated Ni-Si Alloy
J. Nucl. Mater. 158, p. 179-187 (1988)

- H. Watanabe, T. Muroga, N. Yoshida and K. Kitajima
81. 高温オーステナイト系ステンレス鋼における注入重水素イオンの吸蔵と放出
九州大学応用力学研究所所報 Vol. 66 p. 361-368 (1988)
吉田直亮、栗田孝昭、藤原正、室賀健夫
 82. TiC Coating on Metallic Substrates by Wire Explosion Spraying
Proc. Surface Engineering Int. Conf., Tokyo p. 79-84 (1988)
S. Fukuda, K. Tokunaga, T. Matsubara, Y. Aono, T. Muroga, Y. Takao and N. Yoshida
 83. オーステナイトステンレス鋼の照射欠陥挙動と析出物形成に及ぼすチタンの効果
九州大学総合理工学研究科報告 第10巻 第2号 p. 193-200 (1988)
渡辺英雄、青木彰伸、室賀健夫、吉田直亮
 84. Positron Annihilation Lifetime Measurement of Electron Irradiated Fe-Cr-Ni-P Alloy
Transactions of the Japan Institute of Metals, Vol. 29, No. 10 p. 769-773 (1988)
H. Watanabe, E. Kuramoto and N. Yoshida
 85. Interaction between Vacancy and Phosphorus in Austenitic Stainless Steel
Ann. Rep. Res. Reactor Inst. Kyoto Univ. 21 p. 109-114 (1988)
H. Watanabe, E. Kuramoto and N. Yoshida
 86. 線爆溶射法によるTiC皮膜の形成－耐熱衝撃性－
日本溶射協会誌 第25巻 第4号 (1989)
福田重久、徳永和俊、松原監壯、青野泰久、室賀健夫、高雄善裕、吉田直亮
 87. Trapping of Deuterium Injected in Austenitic Stainless Steel at Elevated Temperatures
J. Nucl. Mater. 162-164, p. 1082-1087 (1989)
N. Yoshida, T. Kurita, T. Fujiwara and T. Muroga
 88. key重水素イオンによるNiの照射損傷
九州大学応用力学研究所所報 Vol. 68 p. 329-348 (1989)
安川雅啓、吉田直亮、室賀健夫
 89. 核融合炉候補オーステナイト鋼・絶縁性セラミックス接合材の微細組織と強度
九州大学応用力学研究所所報 Vol. 68 p. 349-363 (1989)
村田恭央、室賀健夫、青野泰久、吉田直亮、福沢 康
 90. 超伝導強磁場トカマクTRIAM-1Mにおける長時間放電によるリミター損傷
九州大学応用力学研究所所報 Vol. 68 p. 365-385 (1989)
徳永和俊、藤原 正、吉田直亮、室賀健夫、伊藤智之、トリアムグループ
 91. パルスレーザービームを用いた等方性黒鉛の高熱流束実験
九州大学応用力学研究所所報 Vol. 68 p. 387-396 (1989)
亀崎 洋、徳永和俊、福田重久、吉田直亮、室賀健夫
 92. オーステナイトステンレス鋼の電子線照射における欠陥挙動と析出物形成に及ぼすリン、チタンの複合添加効果
日本金属学会誌 Vol. 53 p. 981-990 (1989)
渡辺英雄、青木彰伸、室賀健夫、吉田直亮
 93. Solid-State Bonding of a Refractory Metal with Nitride Ceramics, Surface-Improved by IVD Technique
MRS Int'l. Mtg. on Adv. Mats. Vol. 8 p. 245-250 (1989)
Y. Aono, Y. Fukuzawa, Y. Andoh, Y. Kato, H. Yamaki, K. Iwafuchi, T. Muroga, N. Yoshida and E. Kuramoto
 94. Characteristics of Radiation-Induced Solute Segregation in Candidate and Model Ferritic Alloys

- ASTM Standard Technical Publication 1046, p. 396-410 (1989)
T. Muroga, A. Yamaguchi and N. Yoshida
95. The Effect of Radiation-Induced Segregation on Void Swelling in Electron-Irradiated Austenitic Fe-Cr-Ni-Ti-P Alloy
Proc. XIIth Int. Cong. for Electron Microscopy, San Francisco, p. 932-933 (1990)
H. Watanabe, T. Muroga and N. Yoshida
96. Defect Behavior and Microstructural Evolution in Vanadium Base Alloys under Irradiation in a High-Voltage Electron Microscope
ASTM Standard Technical Publication 1047, p. 199-209 (1990)
T. Muroga, K. Araki and N. Yoshida
97. Surface Modification of Tokamak Fixed Limiter Used in High-Field Tokamak TRIAM-1
J. Nucl. Science and Technology Vol. 27 p. 333-342 (1990)
K. Tokunaga, T. Fujiwara, Y. Miyamoto, T. Muroga, N. Yoshida, S. Itoh and the TRIAM Group
98. Microstructure Formation and Its Role on Yield Strength in AISI 316 SS Irradiated by Fission and Fusion Neutrons
J. Nucl. Mater. 174, p. 220-228 (1990)
N. Yoshida
99. Correlation of Fast Neutron, Fusion Neutron and Electron Irradiations Based on the Dislocation Loop Density
J. Nucl. Mater. 174, p. 282-288 (1990)
T. Muroga, H. Watanabe and N. Yoshida
100. The Effect of Pyrolytic Carbon Coating on Gas Emission and Sublimation of Graphite Induced by Pulse Laser Beams
J. Nucl. Mater. 176&177, p. 450-454 (1990)
T. Muroga, H. Kamezaki, K. Tokunaga and N. Yoshida
101. Effects of Isotopically Controlled Boron Addition on Microstructure of Nickel Irradiated at the Below Core Canister of FFTF
Sci. Rep. RITU, A-Vol. 35, p. 400-406 (1991)
T. Muroga, K. Araki and N. Yoshida
102. Pulse High Heat Flux Experiment with Laser Beams on Graphite
J. Nucl. Mater. 179-181, p. 193-196 (1991)
H. Kamezaki, K. Tokunaga, S. Fukuda, N. Yoshida and T. Muroga
103. Microstructure, Microchemistry and Strength of Insulating Ceramics Joined to a Fusion Candidate Austenitic Steel by Diffusion Bonding
J. Nucl. Mater. 179-181, p. 259-262 (1991)
T. Muroga, Y. Aono, N. Yoshida, Y. Murata and Y. Fukuzawa
104. Modification of a Limiter under Ultra Long Pulse Operation in the Superconducting High-Field Tokamak TRIAM-1M
J. Nucl. Mater. 179-181, p. 353-355 (1991)
K. Tokunaga, T. Fujiwara, N. Yoshida, T. Muroga, S. Itoh and the TRIAM Group
105. Electron Microscopy of Materials Modification Induced by Tokamak Plasma
J. Nucl. Mater. 179-181, p. 356-359 (1991)
K. Tokunaga, T. Muroga, Y. Miyamoto, T. Fujiwara, N. Yoshida, K. Nakamura, N. Hiraki, S. Itoh and The TRIAM Group
106. Effect of Combined Addition of Phosphorus and Titanium on Microstructural Evolution in

- Fe-Cr-Ni Alloys
J. Nucl. Mater. 179-181, p. 529-533 (1991)
H. Watanabe, A. Aoki, T. Muroga and N. Yoshida
107. Modification of Microstructures Induced by Temperature Variation during Irradiation with 14 MeV Neutrons
J. Nucl. Mater. 179-181, p. 962-965 (1991)
M. Matsuda, N. Yoshida, T. Muroga and M. Kiritani
108. Microstructure-Tensile Property Correlation of 316 SS in Low-Dose Neutron Irradiations
J. Nucl. Mater. 179-181, p. 1078-1082 (1991)
N. Yoshida, H. L. Heinisch, T. Muroga, K. Araki and M. Kiritani
109. Si, Ti添加オーステナイト合金の重イオン照射による組織, 組成変化とボイドスウェーリング抑制機構
九州大学総合理工学研究科報告 第13巻 第2号 p. 175-180 (1991)
徐 虬、室賀健夫、吉田直亮
110. Radiation Damage and Impurity Behavior in the Superconducting Tokamak TRIAM-1M under Steady-State Operation
Radiation Effects 124 p. 99-108 (1992)
N. Yoshida, A. Nagao, K. Tokunaga, K. Tawara, T. Muroga, T. Fujiwara, S. Itoh and the TRIAM Group
111. 高速中性子照射したオーステナイト鋼のボイドスウェーリングに及ぼすリンの効果
日本金属学会誌 Vol. 56 p. 619-625 (1992)
渡辺英雄、室賀健夫、吉田直亮
112. Radiation Damage Induced by Plasma Exposures under Long Duration Tokamak Discharge in TRIAM-1M
J. Nucl. Mater. 191-194, p. 449-453 (1992)
K. Tokunaga, T. Muroga, T. Fujiwara, K. Tawara, N. Yoshida, S. Itoh and the TRIAM Group
113. Low Dose Fission Neutron Irradiation on P- and Ti-Modified Austenitic Alloys with Improved Temperature Control
J. Nucl. Mater. 191-194, p. 1114-1118 (1992)
N. Yoshida, Q. Xu, H. Watanabe, T. Muroga and M. Kiritani
114. Cavity Formation and Growth during Pulse High Heat Loading in Nickel Implanted with Helium or Deuterium Ions
J. Nucl. Mater. 191-194, p. 1248-1253 (1992)
T. Muroga, K. Dohi, Y. Ishihama, K. Tokunaga and N. Yoshida
115. The Influence of Isotopically Controlled Boron Addition on Void Swelling of Nickel Irradiated in FFTF
J. Nucl. Mater. 191-194, p. 1254-1258 (1992)
T. Muroga and N. Yoshida
116. Characteristics of Point Defects and their Clustering Processes in Fe-Mn-Cr and Fe-Mn-Si-Cr Alloys
J. Nucl. Mater. 191-194, p. 1342-1345 (1992)
H. Inoue, T. Muroga, Y. Miyamoto and N. Yoshida
117. Behavior of Impurities in the Scrape-Off Layer under Long Duration Discharges in TRIAM-1M
J. Nucl. Mater. 196-198, p. 415-420 (1992)
N. Yoshida, K. Tokunaga, T. Fujiwara, K. Tawara, T. Muroga, S. Itoh and the TRIAM Group

118. Charged Particle Emission from Plasma Facing Materials by High Heat Load
J. Nucl. Mater. 196-198, p.1008-1012 (1992)
K. Tokunaga, T. Fujiwara, S. Fukuda, T. Muroga and N. Yoshida
119. In Situ Study of Microstructural Evolution in Molybdenum during Irradiation with Low Energy Hydrogen Ions
J. Nucl. Mater. 196-198, p.1013-1017 (1992)
T. Muroga, R. Sakamoto, M. Fukui, N. Yoshida and T. Tsukamoto
120. 銅の電子線照射下における欠陥挙動と組織変化に及ぼすNi, Zn添加効果
九州大学応用力学研究所所報 Vol. 74 p. 347-357 (1992)
石丸詠一朗、室賀健夫、宮本好雄、吉田直亮
121. The Influence of Nickel Content on Microstructures of Fe-Cr-Ni Austenitic Ternaries Irradiated with Fast Neutrons or Heavy Ions
ASTM Standard Technical Publication 1125, p. 1015-1033 (1992)
T. Muroga, F.A. Garner, J.M. McCarthy and N. Yoshida
122. Evolution of Microstructure in Fe-Cr-Ni Austenitic Alloys during Irradiation
J. Nucl. Mater. 205, p. 344-353 (1993)
N. Yoshida
123. Evolution of Microstructure in Nickel by Low-Energy Deuterium Ion Irradiation
J. Nucl. Mater. 205, p. 385-393 (1993)
N. Yoshida, M. Yasukawa and T. Muroga
124. JMTR温度制御照射によるFe-Cr-Ni合金の損傷初期過程に関する研究
九州大学応用力学研究所所報 Vol. 75 p. 1-12 (1993)
徐 虬、渡辺英雄、宮本好雄、室賀健夫、吉田直亮
125. TRIAM-1Mにおける長時間電流駆動放電時の不純物挙動と材料損傷
九州大学応用力学研究所所報 Vol. 75 p. 69-87 (1993)
俵 邦孝、徳永和俊、藤原 正、室賀健夫、吉田直亮、伊藤智之、トリアムグループ
126. Microstructural Evolution of Phosphorus Modified Austenitic Steels during Irradiation in JOYO
Materials Transactions, Jim Vol. 34 No. 11 p. 1012-1017 (1993)
H. Watanabe, T. Muroga and N. Yoshida
127. Effects of 14MeV Neutron Irradiation on Mechanical Properties of High-Purity Molybdenum Single Crystals
Materials Transactions, Jim Vol. 34 No. 11 p. 1130-1136 (1993)
Y. Aono, E. Kuramoto and N. Yoshida
128. 核融合炉用黒鉛材料の総合評価
日本原子力学会誌 資料 Vol. 35 No. 12 p. 1066-1075 (1993)
「核融合炉用黒鉛材料の総合的評価」研究専門委員会
129. The Effect of Phosphorus on the Microstructure of an Fe-16Cr-17Ni Austenitic Ternary Induced by Fast Neutron Irradiations
ASTM Standard Technical Publication 1175, p. 951-963 (1994)
H. Watanabe, T. Muroga and N. Yoshida
130. The Role of Nickel and Zinc in Defect Behavior and Microstructural Evolution of Copper under Electron Irradiation
ASTM Standard Technical Publication 1175, p. 1013-1025 (1994)
T. Muroga, E. Ishimaru and N. Yoshida

131. 透過電子顕微鏡その場観察用極低エネルギーイオン照射装置 (水素イオン入射装置)
真空 第37巻 第2号 p. 62-68 (1994)
塚本哲生、室賀健夫、吉田直亮
132. The influence of 10B addition on the swelling suppression by phosphorus and titanium in Fe-Cr-Ni
Sic. Rep. RITU A40 No. 1 July, p. 85-89 (1994)
T. Muroga, H. Watanabe and N. Yoshida
133. Free defect production efficiency for heavy ion irradiation estimated by loop growth measurements
J. Nucl. Mater. 212-215, p. 203-206 (1994)
T. Muroga, K. Mihara, H. Watanabe and N. Yoshida
134. Effects of temperature variation on damage microstructures in Fe-Cr-Ni alloy induced by heavy ion irradiation
J. Nucl. Mater. 212-215, p. 258-262 (1994)
Q. Xu, H. Watanabe, T. Muroga and N. Yoshida
135. Microstructure of neutron-irradiated copper alloyed with nickel and zinc
J. Nucl. Mater. 212-215, p. 266-269 (1994)
T. Muroga and N. Yoshida
136. Effect of cyclic temperature change on microstructural evolution in austenitic stainless steels under fission neutron irradiation
J. Nucl. Mater. 212-215, p. 471-475 (1994)
N. Yoshida, Q. Xu, H. Watanabe, Y. Miyamoto and T. Muroga
137. The influence of 10B addition on the swelling suppression by phosphorus and titanium in Fe-Cr-Ni
J. Nucl. Mater. 212-215, p. 482-486 (1994)
T. Muroga, H. Watanabe and N. Yoshida
138. The influence of combined addition of phosphorus and titanium on void swelling of austenitic Fe-Cr-Ni alloys at 646-700 K
J. Nucl. Mater. 212-215, p. 503-508 (1994)
H. Watanabe, T. Muroga and N. Yoshida
139. Effect of FFTF irradiation on tensile properties of P- and Ti- modified model austenitic alloys with small amounts of boron
J. Nucl. Mater. 212-215, p. 519-524 (1994)
H. Kurishita, T. Muroga, H. Watanabe, N. Yoshida, H. Kayano and M.L. Hamilton
140. Plasma-induced surface degradation in 304 stainless steel used for TRIAM-1M limiter
J. Nucl. Mater. 212-215, p. 1303-1306 (1994)
N. Tsukuda, E. Kuramoto, K. Tokunaga, T. Muroga, N. Yoshida, S. Itoh and the TRIAM Group
141. High-heat-flux experiment on plasma-facing materials by electron beam irradiation
J. Nucl. Mater. 212-215, p. 1323-1328 (1994)
K. Tokunaga, K. Matsumoto, Y. Miyamoto, T. Muroga and N. Yoshida
142. Microstructural evolution in molybdenum during hydrogen ion implantation with energies comparable to the boundary plasma
J. Nucl. Mater. 212-215, p. 1426-1430 (1994)
R. Sakamoto, T. Muroga and N. Yoshida
143. Effects of deuterium ion irradiation on gas emission and sublimation of graphite by pulse

- high heat load
J. Nucl. Mater. 212-215, p. 1467-1471 (1994)
K. Tokunaga, H. Yagi, S. Fukuda, T. Muroga and N. Yoshida
144. Development of controlled temperature-cycle irradiation technique in JMTR
J. Nucl. Mater. 212-215, p. 1665-1670 (1994)
M. Narui, H. Kurishita, H. Kayano, T. Sagawa, N. Yoshida and M. Kiritani
145. Defect formation in austenitic stainless steels during shutdown procedure of FFTF
J. Nucl. Mater. 217, p. 178-186 (1994)
H. Watanabe, T. Muroga and N. Yoshida
146. Neutron Radiation Effects in Copper and Copper Alloys
Proceedings of the 2nd Japan/China Symposium on Materials for Advanced Energy Systems and Fission and Fusion
Engineering p. 151-155 (1994)
T. Muroga, H. Watanabe and N. Yoshida
147. Microstructural Evolution in Fe-Cr-Ni Alloy under Variational Temperature Irradiation
Proceedings of the 2nd Japan/China Symposium on Materials for Advanced Energy Systems and Fission and Fusion
Engineering p. 407-412 (1994)
Q. Xu, H. Watanabe, T. Muroga and N. Yoshida
148. 照射損傷に及ぼす不純物原子の効果
まてりあ (Materia Japan) 第34巻 第3号 p. 323-327 (1995)
吉田直亮
149. Damage and surface modification of TiC coated Mo divertor of JT-60
J. Nucl. Mater. 220-222, p. 370-374 (1995)
N. Yoshida, T. Katoh, K. Tokunaga, T. Muroga and T. Ando
150. Depth profile analyses of implanted deuterium in tungsten by secondary ion mass spectrometry
J. Nucl. Mater. 220-222, p. 800-804 (1995)
K. Tokunaga, M. Takayama, T. Muroga and N. Yoshida
151. In situ observation of low energy hydrogen ion irradiation damage in copper
J. Nucl. Mater. 220-222, p. 810-814 (1995)
M. Fukui, R. Sakamoto, K. Araki, T. Fujiwara, T. Muroga and N. Yoshida
152. Microstructural evolution induced by low energy hydrogen ion irradiation in tungsten
J. Nucl. Mater. 220-222, p. 819-822 (1995)
R. Sakamoto, T. Muroga and N. Yoshida
153. PFC開発における材料損傷研究
Journal of Plasma and Fusion Research Vol. 71, No. 5 p. 389-393 (1995)
吉田直亮
154. The influence of silicon and phosphorus additions on neutron induced microstructural evolution of Fe-Cr-Ni ternary alloys at 646-703K
J. Nucl. Mater. 225, p. 76-84 (1995)
H. Watanabe, F.A. Garner, T. Muroga and N. Yoshida
155. Microstructure and Tensile Properties of Neutron Irradiated Cu and Cu-5Ni Containing Isotopically Controlled Boron
J. Nucl. Mater. 225, p. 137-145 (1995)

- T. Muroga, H. Watanabe, N. Yoshida, H. Kurishita and M.L. Hamilton
156. 高エネルギー水素プラズマによるプラズマ対向材料の照射損傷
九州大学応用力学研究所所報 Vol. 78 p. 143-153 (1995)
吉田直亮、徳永和俊、坂本隆一、室賀健夫、藤原 正、伊藤智之、トリアムグループ
157. 照射温度変動下の欠陥反応過程
九州大学応用力学研究所所報 Vol. 78 p. 155-171 (1995)
吉田直亮、徐 虬、渡辺英雄
158. 水素イオン照射によるタングステンの損傷組織変化と水素挙動
九州大学応用力学研究所所報 Vol. 78 p. 173-184 (1995)
坂本隆一、荒木邦明、室賀健夫、吉田直亮
159. Fe-Cr-Ni合金の照射組織、組成変化に及ぼすニオブ添加効果
九州大学応用力学研究所所報 Vol. 78 p. 185-202 (1995)
渡辺英雄、高橋伸幸、宮本好雄、室賀健夫、吉田直亮
160. 電子ビーム照射下におけるB4C転化炭素材料の損耗とガス放出
九州大学応用力学研究所所報 Vol. 78 p. 203-216 (1995)
釘宮昌寛、徳永和俊、宮本好雄、吉田直亮、安東俊郎、正木 圭、西堂雅博
161. The Temperature Dependent Role of Phosphorus and Titanium in Microstructural Evolution of Fe-Cr-Ni Alloys Irradiated in FFTF
J. Nucl. Mater. 228, p. 261-274 (1996)
H. Watanabe, T. Muroga and N. Yoshida
162. 炉壁材料の分析研究
J. Plasma and Fusion Research 72, p. 663-672 (1996)
吉田直亮
163. TiC分散Mo合金の高熱負荷特性
九州大学応用力学研究所所報 Vol. 80 p. 99-108 (1996)
徳永和俊、三浦 靖、吉田直亮、栗下裕明、橘内祐寿、茅野秀夫
164. The Influence of Heat Treatments on Neutron Irradiated Nb-1Zr Alloy
J. Nucl. Mater. 233-237, p. 577-580 (1996)
H. Watanabe, K. Yasunaga, T. Muroga, N. Yoshida and F.A. Garner
165. Erosion and Gas Impurity Emission of B4C Converted CFC by High Heat Load
J. Nucl. Mater. 233-237, p. 747-753 (1996)
K. Tokunaga, M. Kugimiya, Y. Miyamoto, N. Yoshida, T. Ando, K. Masaki and M. Saidoh
166. Retention and Desorption of Implanted Deuterium of High-Z Plasma Facing Materials
J. Nucl. Mater. 233-237, p. 776-780 (1996)
R. Sakamoto, T. Muroga and N. Yoshida
167. Radiation Damage and Deuterium Trapping in Deuterium Ion Injected Beryllium
J. Nucl. Mater. 233-237, p. 874-879 (1996)
N. Yoshida, S. Mizusawa, R. Sakamoto and T. Muroga
168. Dislocation Evolution in a Model and a Candidate Ferritic Alloy during Steady and Varying Temperature Electron Irradiations
J. Nucl. Mater. 233-237, p. 1035-1039 (1996)
T. Muroga, Y. Nonaka and N. Yoshida
169. Dynamical Process of Defects Clustering in Nickel under Low Energy Hydrogen Ion Irradiation
J. Nucl. Mater. 233-237, p. 1040-1044 (1996)

- K. Ono, R. Sakamoto, T. Muroga and N. Yoshida
170. Microstructural Evolution in Fe-Cr-Ni Alloy Irradiated with Ni Ion under Varying Temperature
J. Nucl. Mater. 233-237, p.1057-1061 (1996)
Q. Xu, H. Watanabe and N. Yoshida
171. The Effects of Oversized Solute Addition on Microstructural Evolution in Fe-Cr-Ni Alloys during Electron Irradiation
J. Nucl. Mater. 239 p.95-98 (1996)
H. Watanabe, T. Muroga and N. Yoshida
172. Damage and Deuterium Retention of Beryllium due to Low Energy Deuterium Ion Irradiation
Fusion Technology 30(1996) 798-801
N. Yoshida, S. Mizusawa, R. Sakamoto and T. Muroga
173. Microstructure of neutron irradiated graphite/cu joint
Fusion Technology 30(1996) 774-777
H. Watanabe, T. Muroga, N. Yoshida and M. Akiba
174. Formation of interstitial loops in Ni irradiated with low energy hydrogen ions
Proc. International Conference Microstructures and Functions of Materials
K. Ono, T. Ohba, R. Sakamoto and N. Yoshida
175. 高速中性子照射されたNb-1Zr合金の内部組織に及ぼす熱処理の効果
九州大学総合理工学研究科報告 第18巻 第4号 p. 303-307 (1997)
安永和史、渡辺英雄、室賀健夫、吉田直亮
176. High Heat Load Properties of TiC Dispersed Mo Alloys
J. Nucl. Mater. 241-243 1197-1202 (1997)
K. Tokunaga, Y. Miura, N. Yoshida, T. Muroga, H. Kurishita, Y. Kitsunai and H. Kayano
177. TRIAM-1Mでの表面プローブ実験
J. Plasma and Fusion Research 73, No.6 (1997) p.575-580
吉田直亮
178. Microstructural Evolution in Austenitic Stainless Steels Irradiated by Neutrons with Improved Control
Sci. Rep. RITU A45 (1997) p.71-73
Q. Xu, N. Yoshida and T. Yoshiie
179. TRIAM-1Mにおけるプラズマ対向材料の損傷およびその表面での再堆積層の形成
九州大学応用力学研究所所報 Vol. 82 p.179-195 (1997)
平井武志、徳永和俊、藤原 正、吉田直亮、伊藤智之、トリアムグループ
180. 超微小押し込み試験法によるイオン照射したモリブデンの硬度評価
九州大学応用力学研究所所報 Vol. 82 p.197-203 (1997)
岩切宏友、渡辺英雄、吉田直亮
181. Defect Formation Processes in Fe-Cr-Ni Alloys by Neutron Irradiation under Thermal Cycles
Materials Trans., JIM, 38(1997) p.836-841
Q. Xu, N. Yoshida and T. Yoshiie
182. Damage Accumulation under low Energy Hydrogen ion irradiation
J. Nucl. Mater. 251(1997) 284-290
N. Yoshida and R. Sakamoto
183. Developments and high heat flux tests of divertor components for LHD
Fusion Engineering and Design 39-40 (1998) 247-252

- Y. Kubota, N. Noda, A. Sagara, R. Sakamoto, O. Motojima, I. Fujita, T. Hino, T. Yamashina, K. Tokunaga, N. Yoshida
184. Impacts of Charge-Exchange Neutrals on Degradation of Plasma-Facing Materials
J. Nucl. Mater. 258-263 (1998) 173-18
N. Yoshida and Y. Hirooka
185. High Heat Load Properties of Tungsten Coated Carbon Materials
J. Nucl. Mater. 258-263 (1998) 998-1004
K. Tokunaga, N. Yoshida, N. Noda, T. Sogabe and T. Kato
186. Material Damage and Thermal Response of LHD Divertor Mockups by High Heat Flux
J. Nucl. Mater. 258-263 (1998) 1097-1103
K. Tokunaga, N. Yoshida, Y. Kubota, N. Noda, O. Motojima, D. L. Youchison, R. D. Watson, R. E. Nygren, J. M. McDonald and T. D. Marshall
187. Investigation on Modification of Plasma Facing Surface under Long Duration Discharges by Means of a Collector Probe in TRIAM-1M
J. Nucl. Mater. 258-263 (1998) 1060-1065
T. Hirai, K. Tokunaga, T. Fujiwara, N. Yoshida, S. Itoh and TRIAM group
188. Hardening Behavior of Molybdenum by Low Energy He and D Ion Irradiation
J. Nucl. Mater. 258-263 (1998) 873-878
H. Iwakiri, H. Wakimoto, H. Watanabe and N. Yoshida
189. Microstructure of Tantalum Irradiated with Heavy Ions
J. Nucl. Mater. 258-263 (1998) 879-882
K. Yasunaga, H. Watanabe, N. Yoshida, T. Muroga, N. Noda
190. Effects of Solid Transmutants and Helium in Copper Studied by Mixed-Spectrum Neutron Irradiation
J. Nucl. Mater. 258-263 (1998) 955-960
T. Muroga, H. Watanabe and N. Yoshida
191. Nucleation and Growth of Dislocation Loops in Austenitic Stainless Steels Irradiated by Fission and Fusion Neutrons
J. Nucl. Mater., Vol. 258-263 (1998) 1730-1734.
Q. Xu, N. Yoshida and T. Yoshiie
192. Recent Progresses on High Performance Steady-state Plasmas in the Superconducting Tokamak TRIAM-1M
Proc. 17th IAEA Fusion Energy Conference, Yokohama (1998), IAEA-CN-69/OV2/3
S. Itoh, K. N. Sato, K. Nakamura, H. Zushi, M. Sakamoto, K. Hanada, E. Jotaki, K. Makino, S. Kawasaki, H. Nakashima, N. Yoshida
193. Anisotropic Radiation damage by charge exchange neutrals under the high ion temperature discharges in TRIAM-1M
Proc. 17th IAEA Fusion Energy Conference, Yokohama (1998), IAEA-CN-69 FT2/3
T. Hirai, T. Fujiwara, K. Tokunaga, N. Yoshida, S. Itoh and the TRIAM Group
194. Review of recent works in development and evaluation of high-Z plasma facing materials
J. Nucl. Mater. 266-269 (1999) 197-206
N. Yoshida
195. Microstructural Evolution in Beryllium by Fusion-relevant Low Energy Helium Ion Irradiation
J. Nucl. Mater. 266-269 (1999) 997-1002

- K. Morishita, T. Inoue, N. Yoshida
196. Behavior of Plasma-splated Tungsten Coatings on CFC and Graphite under High Heat Load
J. Nucl. Mater. 266-269 (1999) 1224-1229
- K. Tokunaga, N. Yoshida, N. Noda, K. Kubota, S. Inagaki, R. Sakamoto, T. Sogabe, L. Ploechl
197. Dynamical Process of Defect Clustering in Ni under the Irradiation with Low Energy Helium Ions
J. Nucl. Mater. 271-272 (1999) 214-219
- K. Ono, K. Arakawa, N. Yoshida
198. Microstructural Evolution in Vanadium Irradiated during Ion Irradiation at Constant and Varying Temperature
J. Nucl. Mater. 271-272 (1999) 376-380
- K. Ochiai, H. Watanabe, T. Muroga, N. Yoshida, H. Matsui
199. Fluence Dependence of Defect Evolution in Austenitic Stainless Steels during Fission Neutron Irradiation
J. Nucl. Mater. 271-272 (1999) 381-384
- H. Watanabe, T. Muroga, N. Yoshida
200. 電子ビーム照射による高熱流束負荷を受けたVPS-W溶射皮膜／炭素系基材の界面近傍における組成分析と損傷解析
溶射 第36巻 (1999) 28 - 37
松原監壮、徳永和俊、宮本好雄、高雄善裕、吉田直亮、野田信明、久保田雄輔、曾我部敏明、加藤敏之、ローレンツ・プロッヘル
201. TRIAM-1M 高イオン温度プラズマ放電下のプラズマ・壁相互作用
九州大学大学院総合理工学研究科報告 21巻 (1999) 15-24
平井武志、藤原正、徳永和俊、吉田直亮、伊藤智之、トライアムグループ
202. Interaction of Plasma Facing Materials for Fusion Devices with Low Energy Hydrogen and Helium Particles
Radiation Effects & Defects In Solids 148 (1999) 535-553
Naoaki Yoshida
203. High Heat Flux Test of Actively Cooled Tungsten-coated Carbon Divertor Mock-Ups
Fusion Engineering and Design 49-50 (2000) 371-376
K. Tokunaga, N. Yoshida, Y. Kubota, N. Noda, Y. Imamura, T. Oku, A. Kurumada, T. Sogabe, T. Kato, L. Ploechl
204. Correlation between Defect Structures and Hardness in Tantalum Irradiated by Heavy Ions
J. Nucl. Mater. 283-287 (2000) 179-182
K. Yasunaga, H. Watanabe, N. Yoshida, T. Muroga, N. Noda
205. Formation and Migration of Helium Bubbles in Fe-16Cr-17Ni Austenitic Alloy at High Temperature
J. Nucl. Mater. 283-287 (2000) 210-214
K. Ono, K. Arakawa, M. Oohashi, H. Kurata, K. Honjou, N. Yoshida
206. Microstructure of Vanadium Alloys during Ion Irradiation with Stepwise Change of Temperature
J. Nucl. Mater. 283-287 (2000) 286-290
H. Watanabe, T. Arinaga, K. Ochiai, T. Muroga, N. Yoshida
207. Influence of Variable Temperatures Irradiation on Microstructural Evolution in Phosphorus Doped Fe-Cr-Ni Alloys

- J. Nucl. Mater. 283-287 (2000) 319-323
D. Hamaguchi, H. Watanabe, T. Muroga, N. Yoshida
208. A molecular Dynamics Simulation Study of Small Cluster Formation and Migration in Metals
J. Nucl. Mater. 283-287 (2000) 753-757
K. Morishita, T. Diaz de la Rubia, E. Alonso, N. Sekimura, N. Yoshida
209. Changes of Composition and Microstructure of Joint Interface of Tungsten Coated Carbon by High Heat Flux
J. Nucl. Mater. 283-287 (2000) 1121-1127
K. Tokunaga, T. Matsubara, Y. Miyamoto, Y. Takao, N. Yoshida, N. Noda, Y. Kubota, T. Sogabe, T. Kato, L. Piñchl
210. Microstructure Evolution in Tungsten during Low-Energy Helium Ion Irradiation
J. Nucl. Mater. 283-287 (2000) 1134-1138
H. Iwakiri, K. Yasunaga, K. Morishita, N. Yoshida
211. Structure of Materials Deposited on the Plasma Facing Surface in TRIAM-1M Tokamak and the Effect on Hydrogen Recycling
J. Nucl. Mater. 283-287 (2000) 1177-1181
T. Hirai, T. Fujiwara, K. Tokunaga, N. Yoshida, A. Komori, O. Motojima, S. Itoh, TRIAM group
212. Thermal Response and Material Degradation of Tungsten-Coated Carbon Divertor Mock-ups by High Heat Flux
J. Plasma Fusion Res. SERIES, 3 (2000) 260-264
K. Tokunaga, N. Yoshida, Y. Kubota, N. Noda, Y. Imamura, A. Kurumada, T. Oku, T. Sogabe, T. Suzuki, T. Kato, L. Piñchl
213. Modifications of Tungsten Irradiated by Low Energy and High Flux Helium Plasma
J. Plasma Fusion Res. SERIES, 3 (2000) 265-269
M. Ye, S. Fukuta, N. Ohno, S. Takamura, K. Tokunaga, N. Yoshida
214. Tokamakium in TRIAM-1M and its Impacts on Plasma-Surface Interaction
J. Plasma Fusion Res. SERIES, 3 (2000) 284-287
T. Hirai, M. Miyamoto, T. Fujiwara, K. Tokunaga, N. Yoshida, A. Komori, O. Motojima, S. Itoh, the TRIAM-group
215. Surface Analysis of Wall Samples Exposed to LHD Plasmas in the Starting Phase
J. Plasma Fusion Res. SERIES, 3 (2000) 324-327
N. Inoue, A. Sagara, N. Noda, Y. Hirohata, T. Hino, K. Morita, N. Yoshida, O. Motojima
216. Plasma-Surface Interaction Effects during High Ion Temperature Long Pulse Experiments in TRIAM-1M
J. Nucl. Mater. 290-293 (2001) 1030-1035
N. Yoshida, T. Hirai, K. Tokunaga, S. Itoh, The TRIAM group
217. Studies on Flibe Blanket Designs in Helical Reactor FFHR
Fusion Technology 39 (2001) 753-757
A. Sagara, H. Yamanishi, T. Uda, O. Motojima, O. Mitarai, T. Kunugi, Y. Matsumoto, S. Satake, Y. Wu, T. Terai, S. Tanaka, H. Matsui, S. Takahashi, T. Yamamoto, S. Toda, S. Fukuda, M. Nishikawa, A. Shimizu, N. Yoshida
218. Anisotropic Radiation Damage by Charge Exchange Neutrals under Tokamak Discharges in TRIAM-1M
J. Nucl. Mater. 290-293 (2001) 94-98

- T. Hirai, T. Fujiwara, K. Tokunaga, N. Yoshida, S. Itoh, TRIAM Group
219. 電子ビーム熱負荷による高純度CVDタングステンコーティングモリブデン材の損傷
九州大学大学院総合理工学報告、23(2001) 25-29
田村賢、徳永和俊、吉田直亮
220. Effects of Varying Temperature Irradiation of the Microstructure of Neutron Irradiated Austenitic Stainless Steels
The Fourth Pacific Rim International Conference on Advanced Materials and Processing (PRICM4), The Japan Institute of Metals, 2001, 1315-1317
H. Watanabe, T. Muroga, N. Yoshida
221. 小特集 プラズマ対向面での損耗・再堆積研究の進展 - 8. 再堆積層の材料物性 -
プラズマ・核融合学会誌 第77巻、第9号 (2001) 888-892
宮本光貴、吉田直亮
222. 酸化物分散銅合金のイオン照射による組織発達
九州大学大学院総合理工学報告、第23巻、第2号 (2001) 179-185
畠山賢彦、渡辺英雄、秋場真人、吉田直亮
223. Overview of LHD experiments
Nuclear Fusion, Vol. 41, No. 10 (2001) 1355-1367
M. Fujiwara, K. Kawahata, N. Ohyabu, O. Kaneko, A. Komori, H. Yamada, N. Ashikawa, L. R. Baylor, S. K. Combs, P. C. deVries, M. Emoto, A. Ejiri, P. W. Fisher, H. Funaba, M. Goto, D. Hartmann, K. Ida, H. Idei, S. Iio, K. Ikeda, S. Inagaki, N. Inoue, M. Isobe, S. Kado, K. Khlopenkov, T. Kobuchi, A. V. Krasilnikov, S. Kubo, R. Kumazawa, F. Leuterer, Y. Liang, J. F. Lyon, S. Masuzaki, T. Minami, J. Miyajima, T. Morisaki, S. Morita, S. Murakami, S. Muto, T. Mutoh, Y. Nagayama, N. Nakajima, Y. Nakamura, H. Nakanishi, K. Narihara, M. Okmoto, M. Osakabe, T. Ozaki, R. O. Pavlichenko, B. J. Peterson, A. Sagara, K. Saito, S. Sakakibara, R. Sakamoto, H. Sanuki, H. Sasao, M. Sasao, K. Sato, M. Sato, T. Seki, T. Shimosuma, M. Shoji, H. Sugama, H. Suzuki, M. Takechi, Y. Takeiri, N. Tamura, K. Tanaka, K. Toi, T. Tokuzawa, Y. Torii, K. Tsumori, K. Y. Watanabe, T. Watanabe, T. Watari, I. Yamada, S. Yamaguchi, S. Yamamoto, M. Yokoyama, N. Yoshida, Y. Yoshimura, Y. P. Zhao, R. Akiyama, K. Haba, M. Iima, J. Kodaira, T. Takita, T. Tsuzuki, K. Yamaguchi, H. Yonezu, H. Chikaraishi, S. Hamaguchi, S. Imagawa, N. Inoue, A. Iwamoto, S. Kitagawa, Y. Kubota, R. Maekawa, T. Mito, K. Murai, A. Nishimura, H. Chikaraishi, K. Takahata, H. Tamura, S. Yamada, N. Nagai, K. Itoh, K. Matsuoka, K. Ohkubo, I. Ohtake, S. Satoh, T. Satow, S. Sudo, S. Tanahashi, K. Yamazaki, Y. Hamada, O. Motojima
224. ODS銅/ステンレス接合材料の中性子照射による組織変化 - 特集「電子顕微鏡法による材料開発のための微細構造研究最前線(2)」
まてりあ、第40巻、第12号(2001) 1027
渡辺英雄、吉田直亮
225. Thermal Helium Desorption from α -iron
Proc. of 4th Pacific Rim International Conference on Advanced Materials and Processing
Vol.1(2001) 1395-1398 Dec.
K. Morishita, R. Sugano, H. Iwakiri, N. Yoshida, A. Kimura
226. オーステナイト系ステンレス鋼の耐中性子照射特性の改善
電子顕微鏡法の実践と応用写真集 p125, (社)日本鉄鋼協会(社)日本金属学会編
(平成14年3月20日 第1刷発行)
渡辺英雄、室賀健夫、吉田直亮

227. Application of beryllium intermetallic compounds to neutron multiplier of fusion blanket
Fusion Engineering and Design 61-62 (2002) 391-397
H. Kawamura, H. Takahashi, N. Yoshida, V. Shestakov, Y. Ito, M. Uchida, H. Yamada, M. Nakamachi, E. Ishitsuka
228. Modification of tungsten coated carbon by low energy and high flux deuterium irradiation
Journal of Nuclear Materials 307-311(2002) 126-129
K. Tokunaga, R.P. Doerner, R. Seraydarian, N. Noda, N. Yoshida, T. Sogabe, T. Kato, B. Schedler
229. Effects of Helium Irradiation on High Heat Load Properties of Tungsten
Journal of Nuclear Materials 307-311(2002) 130-134
K. Tokunaga, O. Yoshikawa, K. Makise N. Yoshida
230. Effects of Helium Bombardment on the Deuterium Behavior in Tungsten
Journal of Nuclear Materials 307-311(2002) 135-138
H. Iwakiri, K. Morisita, N. Yoshida
231. Microstructure of Neutron Irradiated SS316L/DS-Cu Joint
Journal of Nuclear Materials 307-311(2002) 335-338
H. Watanabe, D. J. Edwards, Y. Aono, N. Yoshida
232. Effects of Temperature Change on Vanadium Alloys Irradiated in HFIR
Journal of Nuclear Materials 307-311(2002) 403-407
H. Watanabe, T. Muroga, N. Yoshida
233. Oxide Formation of a Purified V-4Cr-4Ti Alloy during Heat Treatment and Ion irradiation
Journal of Nuclear Materials 307-311(2002) 408-411
H. Watanabe, M. Suda, T. Muroga, N. Yoshida
234. Low Void Swelling in Dispersion Strengthened Copper Alloys under Single-ion Irradiation
Journal of Nuclear Materials 307-311(2002) 444-449
M. Hatakeyama, H. Watanabe, M. Akiba, N. Yoshida
235. High Resistance to Helium Embrittlement in Reduced Activation Martensitic Steels
Journal of Nuclear Materials 307-311(2002) 521-526
R. Sugano, A. Hasegawa, K. Abe, T. Yamamoto, H. Matsui, N. Yoshida, B. D. Wirth, T. D. Rubia
236. Effect of Substrate Temperature on Microstructure and Deuterium retention of molybdenum Co-deposition with Oxygen
Journal of Nuclear Materials 307-311(2002) 710-714
M. Miyamoto, T. Hirai, K. Tokunaga, T. Fujiwara, N. Yoshida
237. Studies on Retention of Tritium Implanted into Tungsten by β -ray-induced X-ray Spectrometry
Journal of Nuclear Materials 307-311(2002) 729-734
M. Matsuyama, T. Murai, K. Yoshida, K. Watanabe, H. Iwakiri, N. Yoshida
238. High Heat Load Properties of High Purity CVD Tungsten
Journal of Nuclear Materials 307-311(2002) 735-738
S. Tamura, K. Tokunaga, N. Yoshida
239. Effects of Dislocation on Thermal Helium Desorption form Iron and Ferritic Steel
Journal of Nuclear Materials 307-311(2002) 941-945
R. Sugano, K. Morisita, H. Iwakiri, N. Yoshida
240. Effects of Helium Irradiation on Chemical Behavior of Energetic Deuterium in SiC

- Journal of Nuclear Materials 307-311 (2002) 1080-1083
T. Sugiyama, Y. Morimoto, K. Iguchi, K. Okuno, M. Miyamoto, H. Iwakiri, N. Yoshida
241. He 予照射 タングステン に イオン 注入 した トリチウムの 熱的 挙動
富山大学水素同位体科学研究センター研究報告21 (2002) 27-37
松山政夫、吉田勝彦、渡辺国昭、岩切宏友、吉田直亮
242. Material Properties of Co-deposition Formed on Plasma Facing Materials in All-metal Machine TRIAM-1M
Journal of Nuclear Materials, 313-316 (2003) 82-86
M. Miyamoto, K. Tokunaga, T. Fujiwara, N. Yoshida, TRIAM group, Y. Morimoto, T. Sugiyama and K. Okuno
243. Surface Morphology and Helium Retention on Tungsten Exposed to Low Energy and High Flux Helium Plasma
Journal of Nuclear Materials, 313-316 (2003) 92-96
K. Tokunaga, R. P. Doerner, R. Seraydarian, N. Noda, Y. Kubota, N. Yoshida, T. Sogabe, T. Kato and B. Schedler
244. Damage Process of Resolidified Part on CVD-W Coated Molybdenum under High Heat load
Journal of Nuclear Materials, 313-316 (2003) 250-254
S. Tamura, K. Tokunaga, N. Yoshida
245. Erosion and Erosion Products of Tungsten and Carbon-Based Materials Irradiated by a High Energy Electron Beam
Journal of Nuclear Materials, 313-316 (2003) 399-403
X. Liu, N. Yoshida, N. Noda, F. Zhang, Z. Xu, Y. Liu
246. R&D of A MW-Class Solid-Target for a Spallation Neutron Source
Journal of Nuclear Materials, 318 (2003) 38-55
M. Kawai, M. Furusaka, K. Kikuchi, H. Kurishita, R. Watanabe, J-F. Li, K. Sugimoto, T. Yamamura, Y. Hiraoka, K. Abe, A. Hasegawa, M. Yoshiie, H. Takenaka, K. Mishima, Y. Kiyonagi, T. Tanabe, N. Yoshida, T. Igarashi
247. Microscopic Damage of Metals Exposed to the Helium Discharges in TRIAM-1M Tokamak and its Impact on Hydrogen Recycling process
Nuclear Fusion, 43 (2003) 655-659
N. Yoshida, M. Miyamoto, K. Tokunaga, H. Iwakiri, H. Wakimoto, T. Fujiwara, TRIAM group
248. Erosion and Modifications of Tungsten-Coated Carbon and Copper Under High Heat Flux
PLASMA SCIENCE & TECHNOLOGY, 5 (2003) 1887-1894
X. Liu, S. Tamura, K. Tokunaga, N. Yoshida, Z. Fu, ZY. Xu, GC. Ge, N. Noda
249. Development of advanced blanket materials for a solid breeder blanket of a fusion reactor
Nuclear Fusion 43 (2003) 675-680, (Published 18 July 2003)
H. Kawamura, E. Ishitsuka, K. Tsuchiya, M. Nakamichi, M. Uchida, H. Yamada, K. Nakamura, H. Ito, T. Nakazawa, H. Takahashi, S. Tanaka, N. Yoshida, S. Kato, Y. Ito
250. Overview of Steady State Tokamak Plasma Experiments in TRIAM-1M
Nuclear Fusion, 43 (2003) 1600-1609 2003年12月
H. Zushi, S. Itoh, K. Hanada, K. Nakamura, M. Sakamoto, E. Jotaki, M. Hasegawa, Y. D. Pan, S. V. Kulkarni, A. Iyomasa, S. Kawasaki, H. Nakashima, N. Yoshida, K. Tokunaga, T. Fujiwara, M. Miyamoto, H. Nakano, M. Yuno, A. Murakami, S.

- Nakamura, N. Sakamoto,
251. Physics and Technological Issues for Steady-State Tokamak Operation on TRIAM-1M
Journal of Plasma and Fusion Research, 79 (2003) 1302-1316
H. Zushi, S. Itoh, N. Yoshida, K. Hanada, K. Nakamura, M. Sakamoto, E. Jotaki, M. Hasegawa,
K. Tokunaga, A. Iyomasa, A. Iwamae, Y. Hirooka
252. Current Ramp-Up Experiments in Full Current Drive Plasmas in TRIAM-1M
Nuclear Fusion, 44 (2004) 357-361
K. Hanada, K. Nakamura, M. Hasegawa, S. Itoh, H. Zushi, M. Sakamoto, E. Jotaki, S.V.
Kulkarni, A. Iyomasa, S. Kawasaki, H. Nakashima, N. Yoshida, K. Tokunaga, T. Fujiwara,
O. Mitarai
253. オーステナイトステンレス鋼のミクロ組織発達に関する温度変動照射実験の最近の成果
Journal of Plasma and Fusion Research, 80 (2004) 523-528
渡辺英雄、室賀健夫、吉田直亮
254. Materials for the Plasma-Facing Components of Fusion Reactors
Journal of Nuclear Materials, 329-333 (2004) 66-73
H. Bolt, V. Barabsh, W. Krauss, J. Linke, R. Neu, S. Suzuki, N. Yoshida, ASDEX Upgrade
Team
255. Present Status of Beryllide R&D as Neutron Multiplier
Journal of Nuclear Materials, 329-333 (2004) 112-118
H. Kawamura, H. Takahashi, N. Yoshida, Y. Mishima, K. Ishida, T. Iwadachi, A. Cardella,
J. G. van der Laan, M. Uchida, K. Munakata, Y. Sato, V. Shestakov, S. Tanaka
256. The Precipitation Behavior of Ion Irradiated V-4Cr-4Ti Alloys at Various Oxygen and
Nitrogen Levels
Journal of Nuclear Materials, 329-333 (2004) 420-424
M. Hatakeyama, H. Watanabe, T. Muroga, N. Yoshida
257. The Study of Temperature Variation During HFIR Irradiation on Vanadium
Journal of Nuclear Materials, 329-333 (2004) 425-428
H. Watanabe, T. Muroga, N. Yoshida
258. High Heat Flux Properties of Pure Tungsten and Plasma Sprayed Tungsten Coatings
Journal of Nuclear Materials, 329-333 (2004) 687-691
X. Liu, S. Tamura, K. Tokunaga, N. Yoshida, N. Noda, L. Yang, Z. Xu
259. Thermal Desorption and Surface Modification of He⁺ Implanted into Tungsten
Journal of Nuclear Materials, 329-333 (2004) 692-696
Zhang Fu, N. Yoshida, H. Iwakiri, Zengyu Xu
260. High-Temperature Properties of Joint Interface of VPS-Tungsten Coated CFC
Journal of Nuclear Materials, 329-333 (2004) 711-716
S. Tamura, X. Liu, K. Tokunaga, Y. Tsunekawa, M. Okumiya, N. Noda, N. Yoshida
261. Microscopic Damage of Materials Exposed to Glow Discharge Cleanings in LHD
Journal of Nuclear Materials, 329-333 (2004) 742-746
M. Miyamoto, M. Tokitani, K. Tokunaga, T. Fujiwara, N. Yoshida, S. Masuzaki, A. Komori
262. Effects of Heat Treatment on Trapping and Release of Tritium from He Pre-Irradiated
Tungsten
Journal of Nuclear Materials, 329-333 (2004) 752-756
M. Matsuyama, S. Nakagawa, M. Enyama, K. Watanabe, H. Iwakiri, N. Yoshida
263. Synergistic Effects of High Heat Loading and Helium Irradiation of Tungsten

- Journal of Nuclear Materials, 329-333 (2004) 757-760
K. Tokunaga, S. Tamura, N. Yoshida, K. Ezato, M. Taniguchi, K. Sato, S. Suzuki, M. Akiba
264. Desorption of Helium from Austenitic Stainless Steel Heavily Bombarded by Low Energy He Ions
Journal of Nuclear Materials, 329-333 (2004) 761-765
M. Tokitani, M. Miyamoto, K. Tokunaga, H. Iwakiri, T. Fujiwara, N. Yoshida
265. Thermal Desorption of Deuterium from Ion Irradiated Be_{12}Ti
Journal of Nuclear Materials, 329-333 (2004) 880-884
H. Iwakiri, K. Yasunaga, N. Yoshida, M. Uchida, H. Kawamura
266. Release of Helium from Irradiation Damage in Fe-9Cr Ferritic Alloy
Journal of Nuclear Materials, 329-333 (2004) 933-937
K. Ono, K. Arakawa, H. Shibasaki, H. Kurata, I. Nakamichi, N. Yoshida
267. Microstructural Evolution in Fe and Fe-Cr Model Alloys after He^+ Ion Irradiations
Journal of Nuclear Materials, 329-333 (2004) 942-946
R. Sugano, K. Morishita, A. Kimura, H. Iwakiri, N. Yoshida
268. Microstructural Evolution and Hardness Changes in the Interface of Cu/316L Joint Materials under Again and Ion Irradiation
Journal of Nuclear Materials, 329-333 (2004) 1558-1562
Q. Xu, T. Yoshiie, T. Muroga, N. Yoshida, T. Iwai, D. J. Edwards
269. YAGレーザー溶接したV-4Cr-4Ti合金 (NIFS-HEAT2) のイオン照射特性
Journal of Plasma and Fusion Research, Vol. 80, No. 10 pp. 889-894, (2004)
渡辺英雄、長嶺成将、山崎和宏、吉田直亮、室賀健夫、長坂琢也、許 男鎮、篠崎賢二
270. Thermal Response of Plasma Sprayed Tungsten Coating to High Heat Flux
Fusion Engineering and Design, 70 (2004) 341-349
X. Liu, L. Yang, S. Tamura, K. Tokunaga, N. Yoshida, N. Noda, Z. Xu
271. Overview of steady-state tokamak operation and current drive experiments in TRIAM-1M
Proc. 20th IAEA
Fusion Energy Conference, OV5-2 (2004)
H. Zushi, K. Nakamura, K. Hanada, K. N. Sato, M. Sakamoto, H. Idei, M. Hasegawa, A. Iyomasa, S. Kawasaki, H. Nakashima, A. Higashijima, T. Kuramoto, A. Tanaka, Y. Matsuo, K. Esaki, H. Akanishi, H. Ayatuka, S. Imada, T. Sugata, H. Hoshika, K. Sasaki, N. Maezono, M. Kitaguchi, N. Imamura, T. Hayasaki, K. Ichizono, S. Kugimiya, N. Yoshida, K. Tokunaga, T. Fujiwara, M. Miyamoto, M. Tokitani, K. Uehara, Y. Sadamoto, Y. Nakashima, Y. Kubota, Y. Higashizono, Y. Takase, A. Ejiri, S. Shiraiwa, S. Kado, T. Shikama, S. Tsuji-Iio, T. Takeda, Y. Hirooka, K. Ida, Y. Nakamura, T. Fujimoto, A. Iwamae, T. Maekawa, O. Mitarai
272. Toroidal Structure of Hydrogen Recycling in Ultra-long Discharges on TRIAM-1M
Proc. 20th IAEA Fusion Energy Conference, EX/P5-30 (2004)
M. Sakamoto, Y. Matsuo, H. Zushi, K. Nakamura, K. Hanada, K. N. Sato, H. Idei, M. Hasegawa, A. Iyomasa, S. Kawasaki, H. Nakashima, A. Higashijima, T. Kuramoto, M. Kiyaguchi, T. Sugata, N. Maezono, N. Yoshida, K. Tokunaga, T. Fujiwara, M. Miyamoto, M. Tokitani, Y. Nakashima, Y. Kubota, Y. Higashizono, Y. Hirooka, S. Kado, T. Shikama
273. Microscopic Modification of Wall Surface by Glow Discharge Cleaning and its Impact on Vacuum Properties of LHD
Proc. 20th IAEA Fusion Energy Conference, EX/P5-34 (2004)
M. Tokitani, M. Miyamoto, K. Tokunaga, T. Fujiwara, N. Yoshida, A. Komori, S. Masuzaki,

- N. Ashikawa, S. Inagaki, T. Kobuchi, M. Goto, J. Miyazawa, K. Nishimura, N. Noda, B. J. Peterson, A. Sagara and LHD experimental group
274. 高温プラズマ閉じ込め装置におけるヘリウムプラズマ—金属表面相互作用—小特集 核融合炉材料のヘリウム損傷—
Journal of Plasma and Fusion Research, 81 (2005) 31-35
吉田直亮
275. The Microstructure of Pure Copper after Stepwise Change of Irradiation Temperature
Materials Science Forum, 475-479 (2005) 1479-1482
Y. Sumino, H. Watanabe, N. Yoshida
276. The Microstructure of Laser Welded V-4Cr-4Ti Alloy After Ion Irradiation
Materials Science Forum, 475-479 (2005) 1491-1496
H. Watanabe, M. Nagamine, K. Yamasaki, N. Yoshida, Nam-Jin Heo, T. Nagasaka, T. Muroga
277. The Effect of Co-Deposition of Hydrogen and Metals on Wall Pumping in Long Duration Plasma in TRIAM-1M
Journal of Nuclear Materials, 337-339 (2005) 436-440
M. Miyamoto, M. Tokitani, K. Tokunaga, T. Fujiwara, N. Yoshida, M. Sakamoto, H. Zushi, S. Nagata, K. Ono, TRIAM group
278. Blister Formation and Deuterium Retention on Tungsten Exposed to Low Energy and High Flux Deuterium Plasma
Journal of Nuclear Materials, 337-339 (2005) 887-891 2005年3月
K. Tokunaga, M. J. Baldwin, R. P. Doerner, N. Noda, Y. Kubota, N. Yoshida, T. Sogabe, T. Kato, B. Schedler
279. Characteristic Changes of Deuterium Retention on Tungsten Surfaces Due to Low-Energy Helium Plasma Pre-Exposure
Journal of Nuclear Materials, 337-339 (2005) 927-931 2005年3月
D. Nishijima, T. Sugimoto, H. Iwakiri, M. Y. Ye, N. Ohno, N. Yoshida, S. Takamura
280. Microscopic and Macroscopic Damage in Metals Exposed to LHD Divertor Plasmas
Journal of Nuclear Materials, 337-339 (2005) 937-941 2005年3月
M. Tokitani, M. Miyamoto, D. Koga, K. Tokunaga, T. Fujiwara, N. Yoshida, S. Masuzaki, N. Ahikawa, T. Morisaki, M. Shoji, A. Komori, LHD Experimental Group
281. Impact of Low Energy Helium Irradiation on Plasma Facing Metals
Journal of Nuclear Materials, 337-339 (2005) 946-950 2005年3月
N. Yoshida, H. Iwakiri, K. Tokunaga, T. Baba
282. Damage Process of High Purity Tungsten Coatings by Hydrogen Beam Heat Loads
Journal of Nuclear Materials, 337-339 (2005) 1043-1047 2005年3月
S. Tamura, K. Tokunaga, N. Yoshida, M. Taniguchi, K. Ezato, K. Sato, S. Suzuki, M. Akiba, Y. Tsunekawa, M. Okumiya
283. Micron-Bubble Formation on Polycrystal Tungsten due to Low-Energy and High-Flux Helium Plasma Exposure
Materials Transactions, 46 (2005) 561-564 2005年3月
D. Nishijima, M. Miyamoto, H. Iwakiri, M. Y. Ye, N. Ohno, K. Tokunaga, N. Yoshida, S. Takamura
284. Surface Modification and Correlated Internal Damage in Tungsten Irradiated with Low Energy Helium Ions at 1273K
Materials Transactions, 46 (2005) 565-567 2005年3月

- T. Baba, H. Iwakiri, R. Sugano, N. Yoshida
285. Dynamic Simulation of Multiplier Effects of Helium Plasma and Neutron Irradiation on Microstructural Evolution in Tungsten
Materials Transactions, 46 (2005) 1255-1260 2005年6月
Qiu Xu, N. Yoshida, T. Yoshiie
286. Suppression of Blister Formation and Deuterium Retention on Tungsten Surface due to Mechanical Polishing and Helium pre-Exposures
Nuclear Fusion 45 (2005) 669-674 2005年6月
D. Nishijima, H. Iwakiri, K. Amano, M. Y. Ye, N. Ohno, K. Tokunaga, N. Yoshida, S. Takamura
287. Fabrication and High Heat Flux Tests of Plasma Sprayed Tungsten Coated Carbon and TZM
九州大学応用力学研究所所報 第129号 (97-101) 2005年9月
K. Tokunaga, T. Kubota, N. Noda, Y. Imamura, A. Kurumada, N. Yoshida, T. Sogabe, T. Kato, B. Schedler
288. Surface Modification of Low Energy Helium Ion Implanted Austenitic Stainless Steel by Tensile Stress
九州大学応用力学研究所所報 第129号 (103-107) 2005年9月
K. Tokunaga, T. Kawakami, Y. Miyamoto, N. Yoshida
289. 透過型電子顕微鏡によるヘリウム照射材の微細組織観察
九州大学応用力学研究所所報 第129号 (155-164) 2005年9月
岩切宏友、吉田直亮
290. 極低エネルギーヘリウム照射されたタングステンの粒界脆化
九州大学応用力学研究所所報 第129号 (165-169) 2005年9月
馬場友紹、岩切宏友、吉田直亮
291. (Contributed Paper) High-Z Dust Generation on Tungsten Surfaces due to Synergetic Erosion of Deuterium/Helium Plasma Exposures
Journal of Plasma and Fusion Research 81 (2005) 703-707 2005年9月
D. Nishijima, K. Amano, N. Ohno, N. Yoshida, S. Takamura
292. Steady-state tokamak operation, ITB transition and sustainment and ECCD experiments in TRIAM-1M
Nuclear Fusion 45 (2005) S142-S156 2005年10月
H. Zushi, K. Nakamura, K. Hanada, K. N. Sato, M. Sakamoto, H. Idei, M. Hasegawa, A. Iyomasa, S. Kawasaki, H. Nakashima, A. Higashijima, T. Kuramoto, A. Tanaka, Y. Mastuo, E. Esaki, H. Akanishi, T. Sugata, H. Hoshika, K. Sasaki, N. Maezono, M. Kiagushi, N. Imamura, N. Yoshida, K. Tokunaga, T. Fujiwara, M. Miyamoto, M. Tokitani, K. Uehara, Y. Sadamoto, Y. Nakashima, Y. Kubota, Y. Higashizono, Y. Takase, A. Ejiri, S. Shiraiwa, S. Kado, T. sikama, S. Tsuji-Ito, T. Takeda, Y. Hirooka, K. Ida, Y. Nakamura, T. Fujimoto, A. Iwamae, T. Maekawa, O. Mitarai
293. Microscopic modification of wall surface by glow discharge cleaning and its impact on vacuum properties of LHD
Nuclear Fusion 45 (2005) 1544-1549 2005年10月
M. Tokitani, M. Miyamoto, K. Tokunaga, T. Fujiwara, N. Yoshida, A. Komori, S. Masuzaki, N. Ashikawa, S. Inagaki, T. Kobuchi, M. Goto, J. Miyazawa, K. Nishimura, N. Noda, B. J. Peterson, A. Sagara and LHD experimental group
294. Overview of the National Centralized Tokamak Programme
Nuclear Fusion 46 (2006) S29-S38 2006年1月

- M. Kikuchi, H. Tamai, M. Matsukawa, T. Fujita, Y. Takase, S. Sakurai, K. Kizu, K. Tsuchiya
G. Kurita, A. Morioka, N. Hayashi, Y. Miura, S. Itoh, J. Bialek, G. Navratil, Y. Ikeda, T. Fujii
K. Kurihara, H. Kubo, Y. Kamada, N. Miya, T. Suzuki, K. Hamamatsu, H. Kawashima, Y. Kudo, K. Masaki
H. Takahashi, M. Takechi, M. Akiba, K. Okuno, S. Ishida, M. Ichimura, T. Imai, Hashizume, Y. M. Miura
H. Horiike, A. Kimura, H. Tsutsui, M. Matsuoka, Y. Uesugi, A. Sagara, A. Nishimura, A. Shimizu
M. Sakamoto, K. Nakamura, K. Sato, K. Okano, K. Ida, H. R. Shimada, Y. Kishimoto, H. Azechi, S. Tanaka,
K. Yatsu, N. Yoshida, M. Inutake, M. Fujiwara, N. Inoue, N. Hosogane, M. Kuriyama and
H. Ninomiya
295. ベリリウム金属間化合物
工業材料 Vol. 54, No. 1 (2006) 46 2006年1月
三島良直、吉田直亮、河村 弘、土谷邦彦、岩立孝治、内田宗範
296. Behavior of actively cooled mock-ups with plasma sprayed tungsten coating under high heat flux conditions
Fusion Engineering and Design 81 (2006) 133-138 2006年2月
K. Tokunaga, Y. Kubota, N. Noda, Y. Imamura, A. Kurumada, N. Yoshida, T. Sogabe, T. Kato, B. Schedler
297. Effect of low energy helium irradiation on mechanical properties of 304 stainless steel
Fusion Engineering and Design 81 (2006) 335-340 2006年2月
T. Kawakami, K. Tokitani, N. Yoshida
298. Engineering design and control scenario for steady-state high-beta operation in National Centralized Tokamak
Fusion Engineering and Design 81 (2006) 1599-1605 2006年2月
K. Tsuchiya, M. Akiba, H. Azechi, T. Fujii, T. Fujita, M. Fujiwara, K. Hamamatsu, H. Hashizume
N. Hayashi, H. Horiike, N. Hosogane, M. Ichimura, K. Ida, Y. Ikeda, T. Imai, N. Inoue, S. Ishida,
S. Itoh, Y. Kamada, H. Kawashima, M. Kikuchi, A. Kimura, K. Kizu, H. Kudou, Y. Kudou,
K. Kurihara, G. Kurita, M. Kuriyama, K. Masaki, M. Matsukawa, M. Matsuoka, Y. Miura, Y. M. Miura, N.
Miya, A. Morioka, K. Nakamura, H. Ninomiya, A. Nishimura, K. Okano, K. Okuno, a. Sagara, M. Sakamoto
S. Sakurai, K. Sato, R. Shimada, A. Shimizu, T. Suzuki, H. Takahashi
Y. Takase, M. Takechi, H. Tamai, S. Tanaka, H. Tsutsui, Y. Uesugi, K. Yatsu, N. Yoshida
299. Status of Beryllium R&D in Japan
Proceedings 7th IEA International Workshop on Beryllium Technology, pp. 1-7, (Feb. 2006)
2006年2月
H. Kawamura, K. Tsuchiya, Y. Mishima, N. Yoshida, K. Munakata, K. Ishida, Y. Hatano, T. Shibayama
Y. Sato, M. Uchida, S. Tanaka
300. Damage Accumulation in Be_{12}Ti Intermetallic Compound
Proceedings 7th IEA International Workshop on Beryllium Technology, pp. 48-52, (Feb. 2006)
N. Yoshida, H. Iwakiri, Y. Watanabe
301. 照射材断面微細構造解析技術の開発
材料開発のための顕微鏡法と応用写真集 (2006), 134, (日本金属学会発行) 2006年3月
吉田直亮、菅野隆一郎
302. アルミナ分散強化型銅合金の内部組織変化に及ぼす温度変動効果
九州大学大学院総合理工学報告 (2006), 第28巻, 第2号, 241-245 2006年9月
隅野裕也、渡辺英雄、吉田直亮
303. Present status of beryllides for fusion and industrial applications in Japan
Fusion Engineering and Design 82 (2007) 91- 97 2007年1月

- Y. Mishima, N. Yoshida, H. Takahashi, K. Ishida, H. Kawamura, T. Iwadachi, T. Shibayama, I. Ohnuma, Y. Sato, K. Munakata, H. Iwakiri, M. Uchida
304. Formation of interstitial loops in tungsten under helium ion irradiation Rate theory modeling and experiment
Nuclear Instruments and Methods in Physics Research B 255 (Issue 1) 32-36 2007年2月
Y. Watanabe, H. Iwakiri, N. Yoshida, K. Morishita, A. Kohyama
305. Overview of Recent Experimental Studies on TRIAM-1M
Proceedings of the 21st IAEA Fusion Energy Conference, OV/P-2, (2007) 2007年3月
K. N. Sato, H. Zushi, K. Nakamura, K. Hanada, M. Sakamoto, H. Idei, M. Hasegawa, S. Kawasaki, H. Nakashima, A. Higashijima, D. Thang, F. Wang, I. Rego, K. Sasaki, H. Xu, B. Rajendraprasad, M. Ogawa, K. Takagi, K. Nakashima, S. Nishi, T. Aoki, N. Kimura, Y. Inada, Y. Nozaki, Y. Wataya, H. Sakai, M. Matsubara, S. Watanabe, K. Goto, Y. Miyoshi, N. Yoshida, K. Tokunaga, T. Fujiwara, M. Miyamoto, M. Tokitani, K. Uehara, Y. Sadamoto, Y. Nakashima, Y. Higashizono, Y. Takase, A. Ejiri, S. Kado, T. Shikama, S. Iio, T. Takeda, Y. Hirooka, T. Morisaki, Y. Nakamura, K. Toi, T. Fujimoto, A. Iwamae, T. Maekawa, M. Nagata, N. Nishino, O. Mitarai
306. Multiscale Phenomena of Plasma-Wall Interaction in Long Duration Discharges on TRIAM-1M
Proceedings of the 21st IAEA Fusion Energy Conference, EX/P4-25, (2007)
M. Sakamoto, M. Ogawa, H. Zushi, K. Takaki, M. Tokitani, K. Tokunaga, N. Yoshida, Y. Higashizono, Y. Nakashima, K. Nakamura, K. Hanada, K. N. Sato, H. Idei, M. Hasegawa, S. Kawasaki, H. Nakashima, T. Fujiwara, A. Higashijima, T. Shikama, S. Kado, A. Tsushima, K. Uehara, Y. Hirooka, N. Nishino, M. Miyamoto, K. Sasaki, B. Rajendraprasad, M. Kitaguchi, K. Nakashima, Y. Nozaki, N. Kimura
307. Quantitative analysis of plasma particles in materials exposed to LHD divertor plasmas
Proceedings of the 21st IAEA Fusion Energy Conference, EX/P4-27, (2007) 2007年3月
M. Tokitani, N. Yoshida, K. Tokunaga, T. Fujiwara, S. Masuzaki, N. Ashikawa, M. Shoji, T. Morisaki, M. Kobayashi, K. Nishimura, A. Sagara, N. Noda, H. Yamada, A. Komori, LHD experimental group, S. Nagata, B. Tsuchiya
308. (解説) 核融合炉ブランケットの先進中性子増倍材料としてのベリリウム金属間化合物の開発
Journal of Plasma and Fusion Research Vol. 83, No. 3 (2007), pp. 207-214 2007年3月
土谷邦彦、河村 弘、三島良直、吉田直亮、田中 知、内田宗範、石田清仁、柴山環樹、宗像健三、佐藤芳幸、岩切宏友、大沼郁雄
309. プラズマ溶射法による低放射化フェライト鋼へのタングステン被覆
プラズマ応用と複合機能材料, Vol. 16, 69-72, March 2007
八尋由樹、徳永和俊、佃 昇、吉田直亮、小林 明、江里幸一郎、鈴木 哲、秋場真人、光原昌寿、中島英治
310. The observation of dust behavior in TRIAM-1M
Journal of Nuclear Materials 363- 365 (2007) 238- 241 2007年6月15 June 2007
K. Sasaki, K. Hanada, N. Nishino, M. Tokitani, N. Yoshida, K. N. Sato, H. Zushi, K. Nakamura, M. Sakamoto, H. Idei, M. Hasegawa, S. Kawasaki, H. Nakashima, A. Higashijima, TRIAM group
311. Retention properties of plasma particles in tungsten exposed to LHD divertor plasmas
Journal of Nuclear Materials 363- 365 (2007) 443- 447 15 June 2007
M. Tokitani, M. Miyamoto, K. Tokunaga, T. Fujiwara, N. Yoshida, S. Masuzaki, N. Ashikawa, T. Morisaki, M. Shoji, A. Komori, LHD Experimental Group, S. Nagata, B. Tsuchiya
312. Irradiation effects of low energy helium ions on optical reflectivity of metallic mirror

- Journal of Nuclear Materials 363-365 (2007) 1195-1200 15 June 2007
A. Ebihara, M. Tokitani, K. Tokunaga, T. Fujiwara, A. Sagara, N. Yoshida
313. A Study on temperature effects on hydrogen recycling and molybdenum impurity emission from a movable limiter in TRIAM-1M Tokamak
Nuclear Fusion 47 (2007) 864-874 23 July 2007
R. Bhattacharyay, H. Zushi, K. Nakashima, T. Shikama, M. Sakamoto, N. Yoshida, S. Kado, K. Sawada, Y. Hirooka, K. Nakamura, K. Hanada, H. Idei, M. Hasegawa, K.N. Sato, M. Ogawa, O. Takaki, K. Sasaki, H. Xu, S. Kawasaki, H. Nakashima, A. Higashijima
314. Effects of oversized element Sn on diffusion of interstitial clusters in Ni irradiated by ions and neutrons
Journal of Nuclear Materials 367-370 (2007) 361-367 1 August 2007
Q. Xu, T. Yoshiie, H. Watanabe, N. Yoshida
315. Microstructure change and helium release due to tensile loading on austenitic stainless steel implanted with low energy helium ions
Journal of Nuclear Materials 367-370 (2007) 457-461 1 August 2007
T. Kawakami, K. Tokunaga, N. Yoshida
316. The Microstructure of laser welded V-4Cr-4Ti alloy after neutron Irradiation
Journal of Nuclear Materials 367-370 (2007) 794-799 1 August 2007
H. Watanabe, K. Yamasaki, A. Higashizima, N. Yoshida, T. Nagasaka, T. Muroga
317. Accumulation of helium in tungsten irradiated by helium and neutrons
Journal of Nuclear Materials 367-370 (2007) 806-811 1 August 2007
Q. Xu, N. Yoshida, T. Yoshiie
318. Effects of helium implantation on damage during pulsed high heat loading of tungsten
Journal of Nuclear Materials 367-370 (2007) 812-816 1 August 2007
K. Tokunaga, T. Fujiwara, K. Ezato, S. Suzuki, M. Akiba, N. Yoshida
319. Hydrogen retention properties of co-deposition under high-density plasmas in TRIAM-1M
Journal of Nuclear Materials 367-370 (2007) 1487-1491 1 August 2007
M. Tokitani, M. Miyamoto, K. Tokunaga, T. Fujiwara, N. Yoshida, M. Sakamoto, H. Zushi, K. Hanada, TRIAM Group, S. Nagata, B. Tsuchiya
320. Effects of Chemical States of Carbon on Deuterium retention in Carbon-containing materials
Journal of Nuclear Materials 367-370 (2007) 1522-1526, In Press, Accepted Manuscript, Available online 7 April 2007
M. Oyaizu, H. Kimura, T. Nakahata, Y. Nishikawa, M. Tokitani, Y. Oya, H. Iwakiri, N. Yoshida, K. Okuno
321. Development of advanced tritium breeders and neutron multipliers for DEMO solid breeder blankets
Nuclear Fusion 47 (2007) 1300-1306 30 August 2007
K. Tsuchiya, T. Hoshino, H. Kawamura, Y. Mishima, N. Yoshida, Y. Terai, S. Tanaka, K. Munakata, S. Kato, M. Uchida, M. Nakamichi, H. Yamada, D. Yamaki, K. Hayashi
322. Sub-ms laser pulse irradiation on tungsten target damaged by exposure to helium plasma
Nuclear Fusion 47 (2007) 1358-1366 3 September 2007
S. Kajita, S. Takamura, N. Ohno, D. Nishijima, H. Iwakiri, N. Yoshida
323. LHDプラズマ計測用リトロ反射鏡における光反射率劣化機構
九州大学応用力学研究所所報 第133号 (2007) 147-153 2007年9月

- 吉田直亮、大多和義久、蛭原彩乃、時谷政行、徳永和俊、川端一男、秋山毅志
324. 軽水炉用圧力容器鋼の中性子照射脆化に関する研究
九州大学応用力学研究所所報 第133号 (2007) 161-165 2007年9月
渡辺英雄、今村武史、鱒淵俊児、吉田直亮、鎌田康寛、高橋正氣
325. レーザー溶接されたV-4Cr-4Ti合金の照射組織に及ぼす溶接後熱処理の効果
九州大学応用力学研究所所報 第133号 (2007) 167-172 2007年9月
渡辺英雄、山崎和宏、東嶋 彬、吉田直亮、長坂琢也、室賀健夫
326. Changes of optical properties of retro-reflector installed in LHD
REVIEW OF SCIENTIFIC INSTRUMENTS Vol. 78, No. 10, October 2007
T. Akiyama, K. Kawahara, N. Ashikawa, M. Tokitani, S. Okajima, K. Nakayama, N. Yoshida,
A. Ebihara, K. Tokunaga, Y. Ohtawa, S. Tsuji-lio
327. プラズマ対向壁・ミラーとアルファ粒子の相互作用
Journal of plasma and Fusion Research Vol. 83, No. 12 (2007), pp. 957-1022
吉田直亮
328. YAGレーザー溶射されたV-4Cr-4Ti合金の照射組織に及ぼす溶接後熱処理の効果
Journal of plasma and Fusion Research Vol. 84, No. 1 (2008), pp. 46-50
渡辺英雄、山崎和宏、東嶋 彬、吉田直亮、長坂琢也、室賀健夫、許 男鎮、篠崎賢二
329. HVEM照射による軽水炉圧力容器鋼の欠陥挙動解析
まてりあ 第47巻 第12号 (2008)
渡辺英雄、鱒淵俊児、吉田直亮
330. イオン照射した低放射性V-4Cr-4Ti合金の表面近傍での微細チタン酸化物の形成
まてりあ 第47巻 第12号 (2008)
渡辺英雄、吉田直亮
331. タングステンにおける低エネルギーヘリウムイオン照射損傷
まてりあ 第47巻 第12号 (2008)
吉田直亮、岩切宏友、馬場友紹
332. ミクロスケールのプラズマ・壁相互作用
Journal of plasma and Fusion Research Vol. 84, No. 12 (2008), pp. 929-936
吉田直亮、時谷政行
333. Effects of magnetic field and target plasma on the penetration behavior of
Compact toroid plasma by heat load measurements in CPD
Nuclear Fusion 48 (2008) 105001 (9pp)
R. Bhattacharyay, H. Zushi, N. Fukumoto, M. Nagata, N. Nishino, H. Honma, K. Kawakami, N. Yoshida,
S. Kawasaki, T. Yoshinaga, K. Sasaki, M. Hasegawa, K. N. Sato, M. Sakamoto, K. Nakamura, H. Idei
H. Nakashima, and A. Higashijima
334. Spherical cauliflower-like carbon dust formed by interaction between deuterium plasma
and graphite target and its internal structure
Journal of Nuclear Materials 300-391 (2009) 61-64
N. Ohno, M. Yoshimi, M. Tokitani, S. Takamura, K. Tokunaga, N. Yoshida

— 賞 —

日本電子顕微鏡学会 瀬藤賞 (1975年10月)