

Journal "Problems of Atomic Science and Technology. Series: Thermonuclear Fusion"
CONTENTS (2023, Volume 46, Issue 2)

In Memoriam of Denis Petrovich Ivanov	5
<i>Nagornyi N.V., Mironova E.Yu., Portone S.S., Semenov O.I., Ezhova Z.V., Mironov A.Yu., Larionov A.S., Grigoryan L.A., Guzhev D.I., Semenov E.V., Nikolaev A.I., Nesterenko V.M., Arbizova T.V., Semenov I.B., Krasilnikov A.V.</i> Development of the scientific data handling concept in the infrastructural hardware plat-form of the common it space for fusion research	7
<i>Leonov V.M.</i> <i>Kukushkin A.S.</i> <i>Revyakin P.A., Rodionov R.N., Nemtsev G.E.</i> Calculation of pulse-height spectra of ITER vertical neutron camera diamond detectors based on plasma ion velocity distribution function	15
<i>Neverov V.S., Andreenko E.N., Akhtyrskiy S.V., Zemtsov I.A., Krupin V.A., Kukushkin A.B., Kukushkin A.S., Leonov V.M., Nemets A.R., Nurgaliev M.R., Pshenov A.A.</i> Development of a software module for synthetic optical diagnostics of plasmas in T-15MD tokamak and calculation of passive spectroscopy signals	23
<i>Akhmedov I.S., Ryzhov N.I., Yudina T.A., Dolganov K.S., Kiselev A.E.</i> Analysis of loss of vacuum accident at ITER using SOCRAT-V1/V2	38
<i>Demidov A.S., Zakharenkov A.V., Komov A.T., Tuputilov D.A., Dedov A.V., Groo D.A., Vertkov A.V., Zharkov M.Yu.</i> Cooling by dispersed flow of a surface exposed to high thermal load	53
<i>Lidzhigoriaev S.D., Burmistrov D.A., Gavrilov V.V., Kostyushin V.A., Poznyak I.M., Pushina A.V., Toporkov D.A.</i> Shielding of a tungsten target from impact of a powerful hydrogen plasma flow by means of a nitrogen gas screen	63
<i>Vasiliev A.D., Dolganov K.S., Kiselev A.E., Kondratenko P.S., Matveev L.V., Semenov V.N.</i> Possibility of hydrogen stratification under accident conditions with coolant loss from the cooling system into vacuum ves-sel at tokamaks	72
<i>Romanovskii V.R., Makarenko M.N.</i> Destruction mechanisms of superconductivity of high-temperature su-perconductors cooled by liqued coolant during ac current charging	87
<i>Shlenskii M.N., Dlougach E.D., Kuteev B.V.</i> Development of neutron-physical model of hybrid reactor DEMO-FNS by means of NESTOR code and Monte-Carlo method	97
<i>Blandinsky V.Yu., Bobrov E.A., Davidenko V.D., Dyachkova O.V., Karpushkin T.Yu., Tsibulskiy S.V.</i> The potential of coupled operation of fission VVER and fusion power reactors	111