

Journal "Problems of Atomic Science and Technology. Series: Thermonuclear Fusion"
CONTENTS (2026, Volume 49, Issue 1)

CONTENTS

T-15MD

- Sychugov D.Yu., Ryzhakov D.V., Andreev V.F., Gorbunov A.V., Kirneva N.A., Kislov D.A., Lukash V.E., Notkin G.E., Sushkov A.V., Tarasyan K.N., Shelukhin D.A., Ulasevitch D.L., Khairutdinov R.R. [Numerical analysis of experiments with divertor on the T-15MD tokamak](#). 5
- Tepikin V.I., Belov A.M., Sushkov A.V. [Concept of the T-15MD tokamak diamagnetic measurement system](#). 23

ITER

- Artem'ev V.D., Chaika P.Yu. [Assessment of reliability metrics of the ITER reactor divertor central assembly](#). 33
- Shoshin A.A., Burdakov A.V., Ivantsivskiy M.V., Polosatkin S.V., Sulyaev Yu.S., Semenov A.M., Gavrilenko D.E., Taskaev S.Y., Kasatov D.A., Kravtsov D.E., Sorokina N.V., Ovsienko A.I., Rumyantsev V.I. [Boron carbide ceramics as neutron shielding for ITER port-plugs](#). 41
- Gavrilenko D.E., Burdakov A.V., Ivantsivskiy M.V., Serdakov L.E., Polyanskiy A.V., Krapivin V.S., Shoshin A.A., Sulyaev Yu.S. [Method for controlling the straightness of channels cooling system of ITER fusion reactor diagnostic ports](#). 52

T-11M

- Dzhigailo N.T., Dzhigailo D.I., Lazarev V.B., Scherbak A.N. [Impact of peripheral D—Li-plasma on electrical insulating ceramics in the T-11M tokamak and its thermodynamic modeling](#). 63

Open magnetic traps

- Sudnikov A.V., Inzhevatkina A.A., Tolkachev M.S. [Upgrade of the SMOLA helical mirror for plasma confinement experiments with low binary collisionality](#). 79

Plasma—wall and materials for CTF

- Solarevic T., Gasparyan Yu.M., Efimov V.S., Umerenkova A.S., Ostojic N., Sergeev N.S., Sinelnikov D.N., Efimov N.E., Loryan V.E. [Analysis of the behavior of Al—AlN—TiB₂ composite under heating and plasma irradiation](#). 91

Personalities

- [In memory of Leon Bogdanovich Begrambekov](#) 101