

## Backward in time list of publications

- *Overview of the EUROfusion Tokamak Exploitation programme in support of ITER and DEMO*, EH Joffrin, M Wischmeier, M Baruzzo, A Hakola, A Kappatou, D Keeling, Nuclear Fusion 2024/2/21
- *Predicting the turbulent transport of cosmic rays via neural networks*, DI Palade, Journal of Cosmology and Astroparticle Physics 2024 (01), 002
- *Scaling laws of two-dimensional incompressible turbulent transport*, DI Palade, LM Pomârjanschi, M Ghiță, Physica Scripta 99 (1), 015201
- *Approximations of the modified Bessel functions of the second kind . Applications in random field generation*, DI Palade, LM Pomârjanschi, Romanian Journal of Physics, 2023
- *“Peaking and hollowness of low-Z impurity profiles: an interplay between ITG and TEM induced turbulent transport”*, DI Palade, Nuclear Fusion 63 (4), 046007 (2023)
- *„Enhanced performance in fusion plasmas through turbulence suppression by megaelectronvolt ions”*, S Mazzi, J Garcia, D Zarzoso, YO Kazakov, J Ongena, M Dreval, .Nature Physics 18 (7), 776-782 (2022)
- *„Disruption prediction with artificial intelligence techniques in tokamak plasmas”*J Vega, A Murari, S Dormido-Canto, GA Rattá, M Gelfusa, Nature Physics 18 (7), (2022)
- *„Overview of JET results for optimising ITER operation”*, J Mailloux, N Abid, K Abraham, P Abreu, O Adabonyan, P Adrich, ... Nuclear Fusion 62 (4), 042026, (2022)
- *„Effects of intermittency via non-Gaussianity on turbulent transport in magnetized plasmas”*, DI Palade, L Pomârjanschi, Journal of Plasma Physics 88 (2), 905880202, (2022)
- *„Turbulent transport of the W ions in tokamak plasmas: properties derived from a test particle approach”*, authors: D. I. Palade, M. Vlad, F. Spineanu, Nuclear Fusion 61, 116031 (2021)
- *“Fast generation of Gaussian random fields for direct numerical simulations of stochastic transport”*, authors: D.I. Palade, M. Vlad, Statistics and Computing 31, 60 (2021);
- *“Turbulent transport of fast ions in tokamak plasmas in the presence of resonant magnetic perturbations”*, authors: D.I.Palade, Physics of Plasmas 28, 022508 (2021);
- *“Effects of the parallel acceleration on heavy impurity transport in turbulent tokamak plasmas”*, autori: M. Vlad, D.I. Palade, F. Spineanu, PLASMA PHYSICS AND CONTROLLED FUSION, Published: December 2020

- "*Trapped electron modes turbulence: test modes approach*", V. V. BARAN, D. I. PALADE, M. VLAD, F. SPINEANU, Romanian Journal of Physics 64, 502 (2019)
- "*Nonlocal orbital-free kinetic pressure tensors for the Fermi gas*", D. Palade, Phys. Rev. B 98, 245401 (2018)
- "*The Schrodinger-Poisson-Induction system: rotational effects in the fluid turbulence of a 2D quantum plasma*", D. I. Palade, V. Baran, Romanian Journal of Physics 63, 504 (2018)
- "*Turbulent transport of alpha particles in tokamak plasmas*", A. Croitoru, D. I. Palade, M Vlad, F Spineanu, 2017 Nucl. Fusion 57 036019
- "*Semiclassical approaches to the Coupling between Nuclear Dipole Modes and Surface vibrations*", V. Baran, D. G. David, D.I. Palade, Romanian Journal of Physics, 2016, vol 61, no 5-6
- "*Multiple surface plasmons in an unbounded quantum plasma half-space*" D. I. Palade, Phys. Plasmas 23, 074504 (2016)
- "*N-Block Separable Random Phase Approximation: Dipole oscillations in sodium clusters and C60 fullerene*", D.I. Palade, V. Baran, Journal of Physics B: Atomic, Molecular and Optical Physics, Vol 49, no 17
- Baran, V., et al. "*Collectivity of the pygmy dipole resonance within schematic Tamm-Dancoff approximation and random-phase approximation models.*" Physical Review C 91.5 (2015): 054303.
- "*Collective Dynamics and Fragmentation in Nuclear Systems*" V. Baran, M. Marciu, D.I. Palade, M. Colonna, M. di Toro, A.I. Nicolin, R. Zus, Romanian Journal of Physics, 5-6 (2015)
- Palade, D. I., and V. Baran. "*Optical response of C60 fullerene from a time dependent Thomas Fermi approach.*" Journal of Physics B: Atomic, Molecular and Optical Physics 48.18 (2015): 185102.
- Palade, D. I., and V. Băran "*General static polarizability in spherical neutral metal clusters and fullerenes within Thomas -Fermi theory.*" (September, 2015, Romanian Journal of Physics)