Special Issue

Latest Research on the Physical Properties of Transport in Plasmas

Message from the Guest Editors

To date, the research in the field is nearing the achievement of attaining an exploitable energy source via fusion reactions, including the latest results of the European Tokamak JET and also so-called “compact devices”. The recent studies conducted on tokamaks show that scenario development is the key for achieving the desired high-Q–high-duration operation. To achieve self-sustaining fusion reactions, transport studies are essential in order to balance and reduce energy losses. Impurity transport as a result of the first wall and divertor erosion is also a relevant issue, especially since, at present, there is the intention to use liquid metals to coat plasma-facing surfaces. Macro- and micro-instability studies are necessary to understand their impact on the transport properties of the plasma. This Special Issue welcomes the latest studies exploring the physical properties of transport in plasmas. Both theoretical and experimental papers are invited, as well as comprehensive reviews and survey papers combined with astrophysics and space plasma physics.

Guest Editors

Dr. Chiara Marchetto

ISC-CNR and Politecnico di Torino, Dipartimento Energia, C.so Duca degli Abruzzi 24,10129 Torino, Italy

Dr. Giuseppe Francesco Nallo

NEMO Group, Department of Energy, Politecnico di Torino, 10129 Turin, Italy

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Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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