



Reviews of Modern Plasma Physics

Topical Collection

Recent Progress in Physics of Plasma-Based Space Propulsion

Reviews of Modern Plasma Physics will publish a topical collection on Physics of Plasma-Based Space Propulsion.

This Topical Collection will outline recent progress in understanding, characterization, optimization, and modelling of plasma behaviour in space propulsion systems of various types.

1. Physics of Hall-type thrusters;
2. Fusion-based space thrusters;
3. Helicon-type space thrusters and magnetic plasma nozzles;
4. Thrusters with rotating plasma;
5. Behaviour of materials exposed to plasmas in thrusters;
6. Arc plasma thrusters;
7. Plasma cathodes;
8. Modelling and simulation of plasma behaviour in space thrusters;
9. Other related topics.

The guest editors are Prof. Igor Levchenko (levchenko.igor@nie.edu.sg) and Prof. Kateryna Bazaka. Currently around 10 articles are planned. All submitted manuscripts will undergo a standard rigorous peer-review process in accordance with the highest Springer standards.

We are expecting submission by December 31, 2018.

