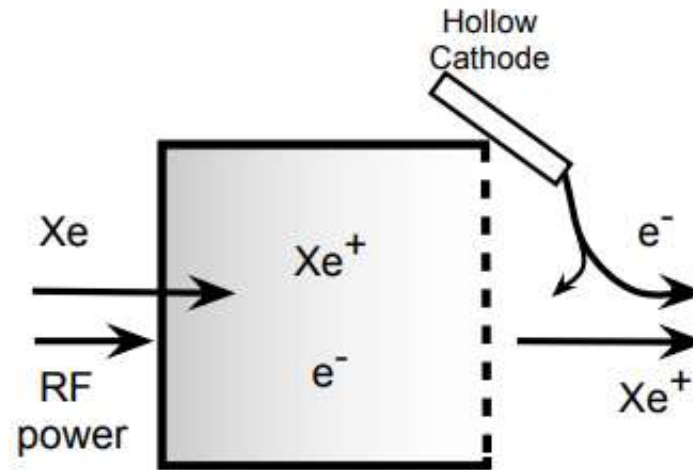
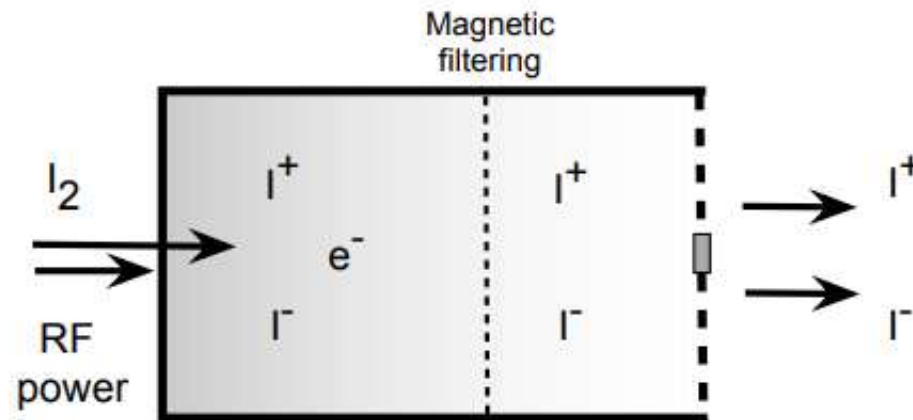


Context: Electric propulsion using ion-ion plasmas

Traditional ion thruster:



Novel ion-ion thruster¹:



¹A Aanesland et al 2009 *J. Phys.: Conf. Ser.* 162 012009

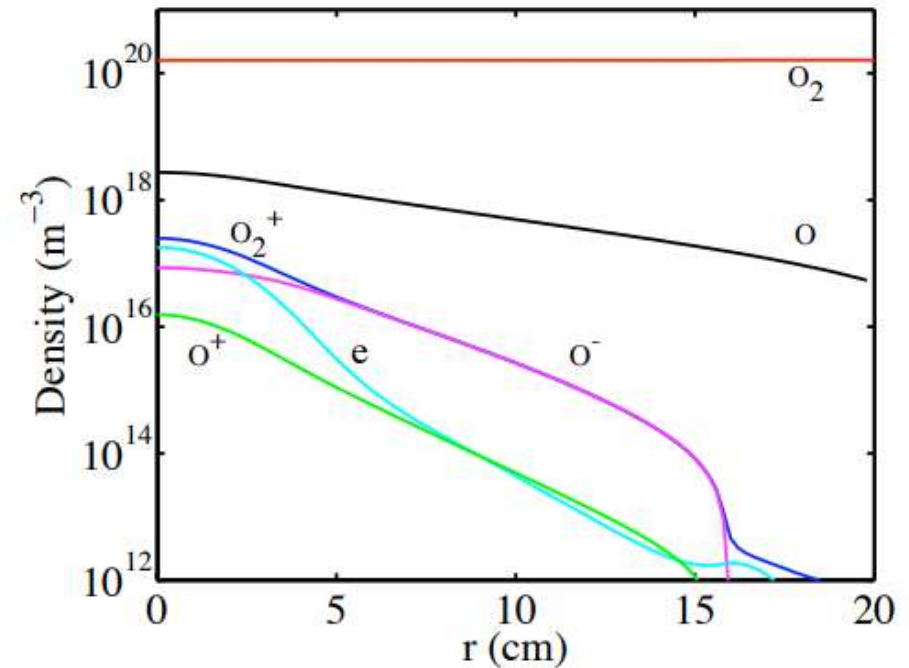
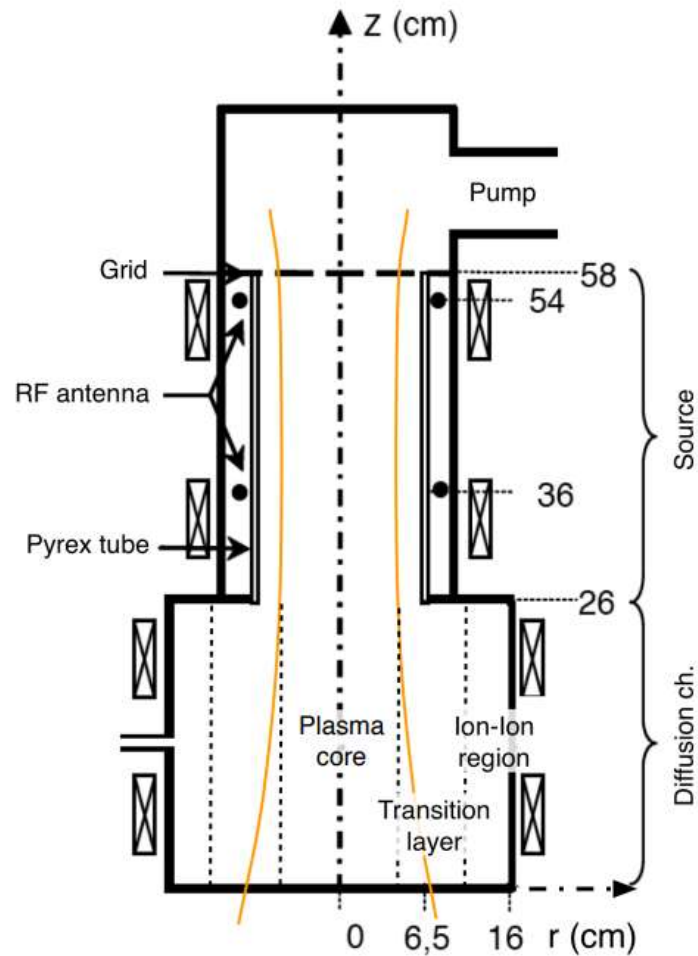
Plasma Properties

Simulated temporal profiles for a pulsed chlorine ion source:



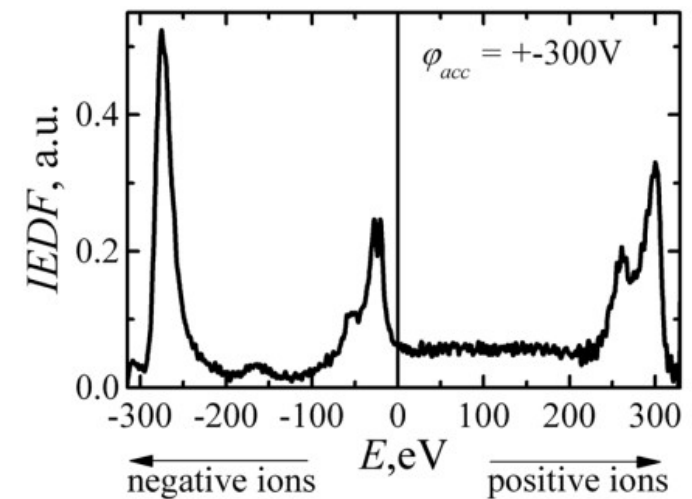
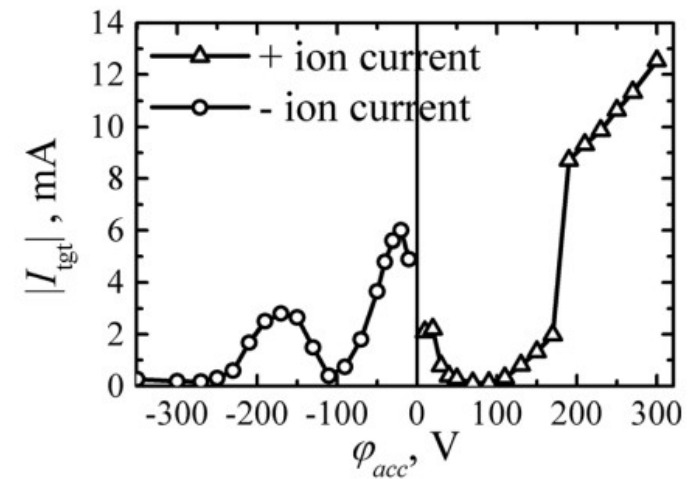
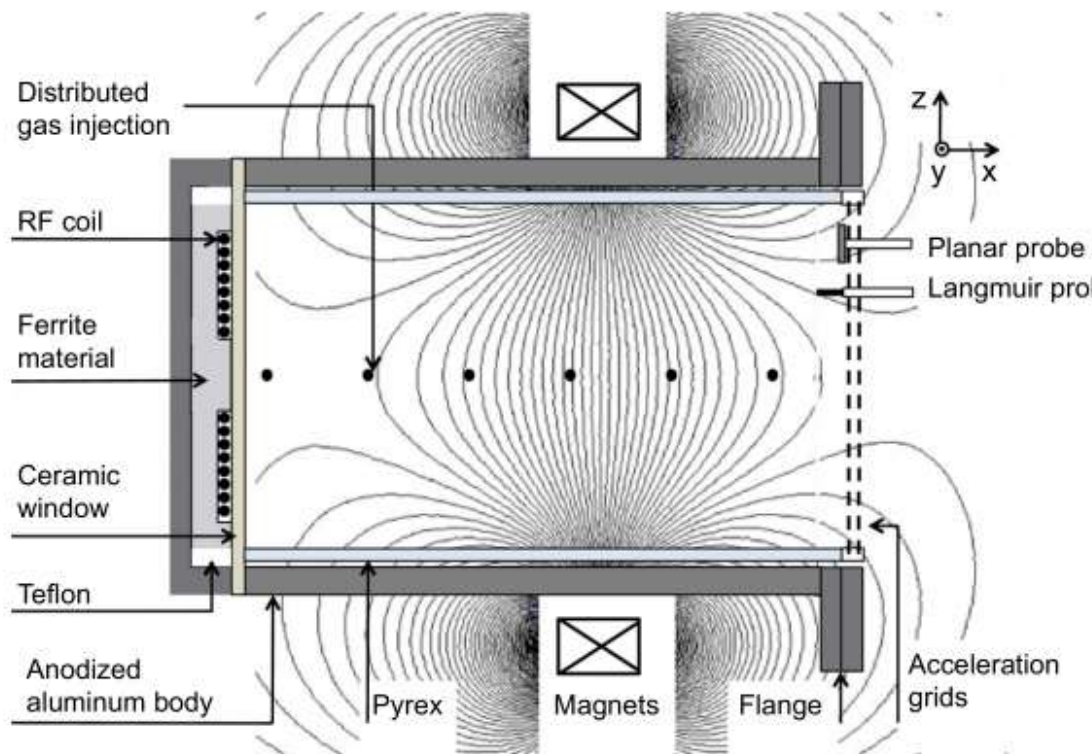
Plasma Properties

Time average spatial profiles for a RF oxygen ion source:



Plasma Properties

Experimental beam profiles for a SF₆ ion accelerator:



Proposed Geometry

Radial axisymmetric negative ion accelerator:

