

Negative fullerene ion beams generation - method and apparatus (Technion)

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The production of neutral and negative molecular ion beams is of considerable importance in diverse areas of physics, in the production of nano-electro-mechanical and nanophotonics systems, synthesis of new materials, electric propulsion devices, fundamental science areas as surface chemistry and catalysis, organic chemistry, and biology and other fields. This system ionizes neutral C60 fullerenes as they pass through a ceramic capillary giving a very pure, bright and focused ion beam with a narrow energy spread.

Contact for more information:

Gabriel Shemer , +972-4-8294851

T - Technion Technology Transfer
Technion City, Senate Bldg., Haifa 32000, Israel
Tel. 972-4-829-4851; 972-8325-375
Fax. 972-4-832-0845