

From Interstellar Space to Liver Disease: the importance and applications of Ion-Molecule Reactions

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Our research is directed towards the study and applications of the reactions of ions with neutral molecules. Multidisciplinary research programmes cover topics from the formation of molecules in interstellar space through to analytical chemistry, with the latter predominantly focusing on Homeland Security and Health Science issues. This talk will illustrate the importance of ion-molecule reactions in many environments and how reagent ions can be used as sensitive analytical probes for the detection of trace compounds in complex surroundings, including applications to detecting volatiles in exhaled breath for the health sciences.