

SIMULTANEOUS DETERMINATION OF ANION AND CATION CONTENT IN WATER SAMPLES THROUGH ICP-AES

P PATENTED TECHNOLOGY

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ABSTRACT

A single system able to simultaneously provide information on the of anion and cation contents in water samples through ICP-AES has been developed in the polymers and nanomaterials research group of the University of Alicante.

Companies interested in the commercial and technical development of the system are sought.

ADVANTAGES AND INNOVATIVE ASPECTS

ADVANTAGES

- Easy-to-atomate system.
- Only an instrument (ICP-AES) instead of three different methods (ICP-AES, acid-base titration and ion chromatography) is required to determine anions and cations.
- Analysis time is drastically shortened thus leading to an increase in the sample throughput.
- Not only water samples but also soils and blood samples, among others, can be analyzed.

INNOVATIVE ASPECTS

The main innovation of the present system is the development of a single method allowing the sequential preparation and automatic quantification of ionic species in water samples employing a commercially available ICP-AES.

MARKET APPLICATIONS

- Analysis, management and water and waste treatment
- Chemical analysis
- Chemical industry

COLLABORATION SOUGHT

- Patent licensing for use, manufacturing and/or commercialisation.
- R&D Contract agreements (technical cooperation in order to adapt the developed technology to market needs or to other sectors).
- Commercial agreements.
- Subcontracting agreements

- Joint ventures / Spin Off possibilities.

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