

# 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.

## TECHNOLOGY 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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