

## Scientific Paper:

Analyst 127, 201-203, 2002

## Multi-ion imaging using fluorescent sensors in a microtiterplate array format

Torsten Mayr<sup>1</sup>, Gregor Liebsch<sup>1</sup>, Ingo Klimant<sup>2</sup> and Otto S. Wolfbeis<sup>1</sup> <sup>1</sup>University of Regensburg, Institute of Analytical Chemistry, Chemo- and Biosensors, D-93040 Regensburg, Germany <sup>2</sup>University of Technology Graz, Institute of Analytical Chemistry, A-8110, Graz, Austria

## Abstract:

A novel type of sensor array destined for water analyses is described. The sensor delivers simple on/off patterns of complex ion mixtures. Fluorescent indicators for CA<sup>2+</sup>, Na<sup>+</sup>, Mg<sup>2+</sup>, SO<sub>4</sub><sup>-2-</sup>, Cl<sup>-</sup> and HG<sup>2+</sup> were arranged in microtiterplates and the analytical information was imaged with a CCD camera within microseconds using an intrinsically referencing method.

