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Ion Selective Electrodes and Interfaces: Fundamental, Education and Applications

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Message from the Guest Editors

Ion Selective Electrodes (ISE) are membrane electrodes that selectively measure the concentration of ions or molecules. The most common ISE is the glass membrane pH probe. Like the common pH probe, all ISE probes share the benefits of low cost, portability, minimal sample preparation, and ease of use. Membranes can be made of glass for hydrogen or sodium ions; solid inorganic salts for fluoride, chloride, silver, lead (II), copper (II), cadmium, or cyanide ions; or polymers for potassium, calcium, perchlorate, or nitrate ions and may be gas permeable for ammonia, carbon dioxide, or sulfur dioxide or can contain enzymes for biochemical analysis. An ISE measures the potential difference across a membrane compared to a reference electrode, which depends on the activity of the ion or molecule that membrane and electrode is designed to measure. The activity is related to the concentration, so the potential is proportional to the concentration.

This Special Issue on “Ion Selective Electrodes” will include applications of ISE and new interfaces in environmental analysis, water and wastewater monitoring, biochemical and pharmaceutical, and education.



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Special Issue



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Message from the Editor-in-Chief

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