Special Issue

Characterization of Organic Ligands: Correlations Between Results by Electrochemistry and Other Methods

Message from the Guest Editor

The connection between electrochemical results and other characterization data is important for validating reaction mechanisms, estimating products, establishing modified electrode preparation conditions, and evaluating compounds for specific applications.

When preparing a modified electrode, a ligand must be chosen that corresponds to the modification's purpose. This can be evaluated by DFT calculations or by testing the ligand's complexation capacity through chemical, optical, or other methods. Electrochemical studies (cyclic voltammetry, differential pulse voltammetry, rotating disk voltammetry, etc.), coulometric studies, impedance studies, and surface characterization (SEM, AFM, Raman, etc.) are required. Testing the modified electrode also involves finding optimal analytical conditions for the target. This is what we aim to highlight in this Special Issue.

Guest Editor

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Deadline for manuscript submissions

20 December 2026

Molecules

an Open Access Journal by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed

mdpi.com/si/251796

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As the premier open access journal dedicated to molecular chemistry, now in its 30th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts, and novel materials. Pushing the boundaries of the discipline, we invite papers on all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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