



an Open Access Journal by MDPI

Recent Chemistry Research on Electrochemiluminescence

Guest Editors:

Prof. Dr. Baohua Zhang

Center for Advanced Analytical Science, School of Chemistry and Chemical Engineering, Guangzhou Key Laboratory of Sensing Materials & Devices, Guangzhou University, Guangzhou, China

Prof. Dr. Li Niu

1. School of Chemistry and Chemical Engineering, Guangzhou University, Guangzhou 510006, China
2. School of Chemical Engineering and Technology, Sun Yat-sen University, Guangzhou 510276, China

Deadline for manuscript submissions:

closed (31 December 2023)

Message from the Guest Editors

Dear Colleagues,

Electrochemiluminescence (ECL) is persistently considered as a hot research topic and has a wide application scope, e.g., nucleic acid detection, immunoassay and the determination of electrocatalytic activity. Meanwhile, the basic theoretical research related to ECL has been developing in recent years, such as i) how to more accurately evaluate the light-emitting efficiencies of ECL luminescent probes; ii) the design and application of new ECL luminophores with special photophysical properties, and iii) the latest ECL signal acquisition strategy, low overpotential ECL method, signal amplification strategy, high-resolution spatial imaging analysis method, etc. In order to further showcase the latest advances in ECL, we have organized this Special Issue, with the purpose to highlight the latest advances from all those topics.

https://www.mdpi.com/journal/molecules/special_issues/electrochemiluminescence_2022

Prof. Dr. Baohua Zhang

Prof. Dr. Li Niu

Guest Editors



[mdpi.com/si/121829](https://www.mdpi.com/si/121829)

Special Issue



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

Institute of Pharmaceutical
Biology and Phytochemistry,
University of Münster,
Corrensstrasse 48, D-48149
Münster, Germany

Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th 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 multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

Author Benefits

Open Access: free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [MEDLINE](#), [PMC](#), [Reaxys](#), [CaPlus / SciFinder](#), [MarinLit](#), [AGRIS](#), and [other databases](#).

Journal Rank: JCR - Q2 (Chemistry, Multidisciplinary) / CiteScore - Q1 (Chemistry (miscellaneous))

Contact Us

Molecules Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/molecules
molecules@mdpi.com
[X@Molecules_MDPI](#)