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Editorial

A New Journal in Catalysis Science

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I am truly honored to have been selected as the new Editor-in-Chief of the Universal Journal of Catalysis Science (UJCS). I am also very proud to be working in tandem with an outstanding team of Associate Editors and members of the Editorial Board. The latter has been selected as a balanced global representation of the leadership in catalysis.

Catalysis is a dynamic multidisciplinary science that engages in some important areas of modern society. The term "catalysis" was coined by the Swedish chemist Berzelius in 1835, but it was only in 1894 that Ostwald introduced a suitable definition, writing: "catalysis is the acceleration of a slow chemical process by the presence of a foreign material" [1]. Catalysts act on reactions by attaching themselves to reactant molecules and thus interacting with them. Although the catalyst is involved in the reaction, it is not used up and can convert many molecules. Therefore, it only needs to be present in catalytic amounts to be converted in large quantities [2]. Catalysis has revolutionized the chemical industry and academia over the past century. Therefore, as researchers in the field of catalysis, still have many related topics of considerable social and economic impact.

UJCS will be a unique journal of catalysis science where we expect to receive high-quality research, review, and perspective manuscript related to catalysis. The journal covers themes such as heterogeneous and homogeneous catalysis, thermocatalysis and photocatalysis, biocatalysts, enzymes, enzyme catalysis; kinetics of catalytic reactions; computational catalysis; organocatalysis, catalysis in organic and polymer chemistry. Additionally, we would like to cover themes from basic and translational catalysis, which aim to develop and comprehend important applications and development of catalysts, such as industrial and environmental applications.

To improve and strengthen the research and development fields highlighted in catalysis, UJCS will occasionally issue special calls for papers that will be collected in special issues. As a result, we are dedicated to publishing all findings, methodologies, resources, and reviews that significantly enhance catalysis science and its practical applications.

I am thrilled to be taking on this critical responsibility. I'd like to welcome you to join this journal! I anticipate very high prospects for UJCS to serve science and the scientific community even more in the future with your help as writers, reviewers, and editors.

References

[1] Ertl, G. Wilhelm Ostwald: Founder of Physical Chemistry and Nobel Laureate 1909. *Angewandte Chemie International Edition.* 2009; 48(36): 6600-6606.
[2] Roduner, E. Understanding catalysis. *Chemical Society Reviews*. 2014; 43(24): 8226-8239.

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