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Advancements in Non-Thermal Plasma Catalysis Processes

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Message from the Guest Editors

Dear Colleagues,

The combined Non-Thermal Plasma–Catalysis processes are actually extensively studied in the fields of energy and environment. In these applications, the combination of plasma with catalysis can enhance pollutant degradation rate, improve energy yields, and modify the reaction pathways and the selectivity of the generated products, which can lead to the reduction of unwanted byproducts. To improve the processes, a better understanding of the mechanisms and implied species is necessary.

This Special Issue concerns recent advances of the plasma-catalysis process dealing with energy, including CO_2 valorization, hydrogen production, syngas production, and environmental fields concerning industrial, domestic, or agricultural pollution of air, waters, or soil by pharmaceuticals compounds, herbicides, metals, dyes, etc. Submissions are welcome in the form of original research papers on experimental work and/or fundamental aspects of plasma–catalysis or short reviews that reflect the state of research.