

## Special Issue

# CO<sub>2</sub> Capture and / or Its Transformation into Fuels or Valuable Chemicals

### Message from the Guest Editors

The ever-increasing CO<sub>2</sub> concentration in the atmosphere leading to global warming is one of the main problems that humankind has to face during the 21st century. To avoid the fact that sooner or later, humanity will directly start to suffer from it, there is an urgent need to reduce this CO<sub>2</sub> level by its capture at the main sources of emissions, such as coal-fired power plants, and even better, to try to sequester it directly from the atmosphere. In addition to CO<sub>2</sub> capture, it is now mandatory to design efficient catalysts, in order to set new processes for its chemical valorization into either fuels (methane, methanol, dimethylether) or key building blocks like olefins, aromatics, epoxides, carbonates, etc. This Special Issue is devoted to presenting the central catalytic role into the aforementioned topics, for example: CO<sub>2</sub> capture; CO<sub>2</sub> platform chemistry based on CO<sub>2</sub> as a reactant: To produce as a formic acid, CO, methanol and methane, cyclic carbonates, etc. Reduction of gas emissions related to CO<sub>2</sub> mitigation processes (NO<sub>x</sub> and SO<sub>x</sub>).

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### Guest Editors

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### Deadline for manuscript submissions

closed (15 January 2021)



## Catalysts

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