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Editorial

Engineering Materials for Catalysis

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The Special Issue "Engineering Materials for Catalysis" was inspired by the preceding 2020 Summer School of the European Federation of Catalysis Societies (EFCATS, https://skd2020.chem-soc.si/en/2020-efcats-summer-school/, accessed on 20 October 2021), which took place from 15 to 19 September 2020 at the Grand Hotel Bernardin Convention Center, Portorož-Portorose, Slovenia.

It deals with the synthesis (Häusler, Contribution 1) and characterization of heterogeneous catalysts (including shape-controlled (Sarıbıyık, Contribution 2) and laser routes (Lasemi, Contribution 3)), in situ and operando studies (Mutschler, Contribution 4), advanced (synchrotron) characterization, and computational modelling, and covers various applications in photocatalysis (degradation of dyes (Pavlović, Contribution 5)) and volatile organic compounds (Žumbar, Contribution 6; Ullattil, Contribution 7) as well as in thermal and industrial (HDS) catalysis (Xu, Contribution 8).

In recent years, the importance of sustainable pathways, waste recycling, and material and energy resources other than fossil fuels has increased. Future technological advances will require breakthroughs in catalyst synthesis, (operando) characterization, multiscale modelling and reactor operating modes, and process intensification. As all these topics were covered by the 2020 EFCATS Summer School, the school and the Special Issue of the journal *Catalysts* were notably well timed.

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