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Pickering Interfacial (PIC) and Pickering-Assisted (PAC) Chemical and Biochemical Catalysis

Guest Editor:

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Message from the Guest Editor

Pickering emulsions are surfactant-free dispersions of two immiscible liquids kinetically stabilized by colloidal particles. Though known for more than a century, these systems have emerged this last decade as platforms for catalysis. Indeed, the use of colloidal particles as stabilizers provides emulsions with original properties compared to classical emulsions, microemulsions, and micellar systems stabilized by surfactants. Their application to chemical, biochemical, and hybrid catalysis is therefore of particular interest. This Special Issue will focus on catalytic, biocatalytic, and combined systems operating by interfacial catalysis in Pickering emulsions (Pickering interfacial catalysis, PIC) and by Pickering-assisted catalysis (PAC), which constitute a novel and versatile field with promising green credentials for biphasic reactions. Both physical chemical or reactivity aspects may be addressed.