



## **Tribochemistry and Interfaces**

Guest Editor:

**Assoc. Prof. Dr. Clotilde  
Minfray**

Laboratory of Tribology and  
System Dynamics, Ecole Centrale  
de Lyon, University Lyon, ENISE,  
ENTPE, CNRS UMR5513, 69134  
Ecully, France

Deadline for manuscript  
submissions:  
**closed (20 December 2019)**

### **Message from the Guest Editor**

Dear Colleagues,

In a tribological contact, interfaces have the specificity to be under motion, making studies very complicated. Under certain conditions, chemical reactions could occur within these interfaces and generate a new compound called a tribofilm due to a tribochemical process. This tribofilm, with a thickness of only few nanometers in some cases, is able to control both wear and friction in the contact. The understanding of tribochemical phenomena is an actual key scientific challenge that this Special Issue proposes to address.

This Special Issue aims to publish the latest developments in the field of tribochemistry. Research articles dedicated to any kind of tribochemical phenomena under dry or fluid lubrication and involving different types of lubricant additives, coatings, gas, etc., will be of great interest to this Special Issue. Tailoring surfaces to optimize tribochemical reactivity is also considered an interesting aspect. Advanced in-situ tribometry studies, recent developments of tribofilm characterization techniques, and modeling studies are also highly welcome.

Prof. Dr. Clotilde Minfray

*Guest Editor*

