



## Spectroscopy in Catalysis

Guest Editors:

**Dr. Jorg Radnik**

Bundesanstalt für  
Materialforschung und -prüfung  
(BAM), Unter den Eichen 44-46,  
12203 Berlin, Germany

**Dr. Giovanni Agostini**

CELLS-ALBA, Carretera B.P. 1413,  
Cerdanyola del Vallès, 08290  
Barcelona Spain

Deadline for manuscript  
submissions:

**closed (31 May 2019)**

### Message from the Guest Editors

In this Special Issue, submissions are welcome that reflect the state of research in spectroscopy in catalysis. In addition to laboratory techniques, one focus should be the powerful capability provided by modern synchrotron radiation sources both for *operando* and *in situ* experiments. Another great subject is represented by Near-Ambient Pressure X-ray photoelectron spectroscopy, which was developed at synchrotron sources, but now the step to a lab method is being taken. The contribution of modern theoretical methods, e.g., of DFT calculations for improving our understanding of the spectroscopic results, should be illustrated in this issue, too.

### Keywords

- operando and in situ investigation
- catalysis
- electronic and geometrical structure of active sites
- reaction mechanism
- structure-function relationships
- combination of complementary techniques
- spectroscopy
- theoretical calculation

