



Advanced Spectroscopy for the Study of Gas-Solid Interactions

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Message from the Guest Editors

Dear Colleagues,

Gas–solid interactions, leading to either physisorption or chemisorption, are deeply involved in a wide range of industrial processes, which span the fields of gas separation and purification technology, gas sensing, pollution control, and heterogeneous catalysis, to quote only some main examples. Progress in these fields calls for an increasing understanding of both the detailed nature of the gas adsorption sites and the structure and stability (or reactivity) of the corresponding gas adsorption complex. To that endeavor, a panoply of spectroscopic techniques is currently being applied, such as IR and Raman spectroscopy, UV-vis and photoluminescence, MAS-NMR, photoelectron spectroscopy, EXAFS and XANES, EPR, and several others.

This Special Issue is designed precisely to cover recent developments in spectroscopy, as applied to any of the foregoing (or related) fields. Research articles, short communications or reviews exemplifying any of those developments would be very welcome.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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