Special Issue

Electron Emission and Related Phenomena from Inorganic Compound Surfaces

Message from the Guest Editors

We are pleased to invite you to contribute to this Special Issue of Inorganics, titled “Electron Emission and Related Phenomena from Inorganic Compound Surfaces”. The study of thermal, field, photo-, and secondary electron emission mechanisms provides critical insights into charge transport, surface states, and defect dynamics in materials such as semiconductors, oxides, and nanostructured systems. Advanced techniques, such as Auger electron spectroscopy (AES) and electron energy-loss spectroscopy (EELS), further enable atomic-scale mapping of chemical states and electronic transitions. In addition, the study of electron emission is valuable for the study of undesirable effects in high-voltage and microwave systems in space, such as secondary electron multiplication discharge (known as multipactor), flashover discharge, and electrostatic discharge (ESD). For the above reasons, we have organized this Special Issue to provide a platform for discussion and exchange of ideas on the topic of electron emission and electron energy spectroscopy and its various related physical phenomena.

Guest Editors

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Inorganic chemistry remains a lynchpin of modern chemistry, not only embracing the function and reactivity of combinations of most elements of the periodic table, but also providing a footing for studies of materials, catalysts, drugs, fuels and industrial chemicals. Arguably, the role and reach of inorganics in society have never been as great as today. Adventurous research at the heart and at the extremes of inorganic chemistry is vital to further advances and Inorganics offers authors the opportunity to publish exciting new research in an open access format.

Editor-in-Chief

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