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# **Functional Probes for Scanning Probe Microscopy**

Guest Editor:

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Deadline for manuscript submissions:

closed (28 February 2022)

## Message from the Guest Editor

Dear Colleagues,

Scanning probe microscopy is one of the most powerful yet versatile experimental techniques offering unparalleled resolution and precision. Modern functional probes, broadly defined, drastically broaden the functionality of conventional scanning probe microscopes characterization (e.g., physical properties, chemical identities), manipulation (e.g., creation of artificial structures), and fabrication (e.g., nanolithography) at length scales ranging from single atoms to macroscopic wafers. Such advances are made possible, for example, by the maturity of nanofabrication technologies (e.g., smart and nanostructured probes, MEMS probes), the integration of existing scanning probes with additional excitations (e.g., laser, X-ray, microwave, and mechanical excitations), functional modifications of probes (e.g., chemical decoration, superconducting probes), and implementation of entirely new probes (e.g., the miniaturization and integration of existing technologies to a scanning probe).













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