



Non-optical Properties of All-Dielectric Mirrors

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Message from the Guest Editors

Dear Colleagues,

Ultrahigh optical reflectance dielectric mirrors are found in a multitude of applications, enabling key scientific instruments from interferometers detecting gravitational waves to nanocavities used in quantum spin devices; however, the methods of fabrication often trade off results vs. the complexity of the growth process. In this Special Issue, we explore some of the more common growth methods but with an emphasis on the lesser explored, non-optical properties of the resultant coatings.

Includes in the scope of this Special Edition are mechanical, thermal, structural, electrical, and laser resistance studies on all-dielectric mirrors with optical reflectance >99%.





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Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

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