Special Issue

Non-optical Properties of All-Dielectric Mirrors

Message from the Guest Editors

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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Deadline for manuscript submissions

closed (30 September 2022)

Coatings

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.4

mdpi.com/si/77645

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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.
Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research topics.

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