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Irradiation Modification: New Advances, Application and Challenges

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

The irradiation modification of semiconductor and metal coatings embraces different application areas of material science and engineering, ranging from electronics, optics, and mechanics to biology, and to the other fields such as robotics. The irradiation modification of coatings can be accomplished by charged particles such as ion and electron of various energy (several eV–MeV), as well as photons of relatively short wavelength, such as X-ray. The main functions of irradiation are to create microstructural changes that alter the electronic, optical, electrical, and other properties of the coatings. This Special Issue focuses on the irradiation modification of films.

In particular, the topics of interest include but are not limited to

- Irradiation-based nanofabrication and nanopatterning of films;
- Irradiation-based modulation of optical, electronic, and other properties of films;
- Theoretical and experimental studies of ion, electron, and X-ray-induced physical processes;
- Applications of irradiation modification in various fields, like biology;
- Laser (Light) illumination/irradiation

Dr. Zhiya Dang
Guest Editor

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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.

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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