

Special Issue

Optics and Photonics of Magnetic Nanofluids and Thin Films

Message from the Guest Editor

Knowledge and understanding of the unique properties of magnetic nanofluids and thin films and the corresponding physical mechanisms is critical to their photonic applications. We invite authors to contribute original research articles as well as review articles that seek to stimulate the continuing efforts to understand the properties of magnetic nanofluids and thin films and development of photonic applications based on magnetic nanofluids and thin films. The topics of interest for this Special Issue, in particular, include (but are not limited to):

- Photonic properties and applications of magnetic nanofluids and thin films
- Novel properties and applications of magnetic nanofluids and thin films
- Light scattering and extinction of magnetic nanofluids and thin films
- Optical transmission and propagation of magnetic nanofluids and thin films
- Sensing properties and applications based on magnetic nanofluids and thin films
- Magneto-optical properties and photonic applications of other magnetic nanofluids and composite materials
- Any other aspects of magnetic nanofluids and thin films

Guest Editor

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Deadline for manuscript submissions

closed (30 September 2022)



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About the Journal

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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