

# Special Issue

## Carbon Based Films: Characterization, Radiofrequency and Terahertz Applications

### Message from the Guest Editor

In the search for novel materials, carbon-based materials (carbon nanotubes, graphene, and biochar) are some of the most sought-after materials due to their interesting electrical, mechanical, and thermal properties. The properties of carbon-based materials and films have been widely analyzed in the terahertz frequency range where plasmonic effects occur. Recently, the practical utility of carbon-based films in the microwave frequency spectrum has been researched, and potential applications including sensing, shielding and RF and wireless communications are emerging. Further research needs to be done in order to expand the horizon in terms of practical applications and functional device prototypes. This Special Issue focuses on recent advances in the characterization and applications of carbon-based films. Suggested topics for this Special Issue include:

- Characterization and modeling of carbon-based films for microwave applications;
- Passive tunable components based on carbon films;
- Carbon-based films and sensing;
- Innovative shielding films;
- Films for satellite and space applications.

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### Guest Editor

Prof. Patrizia Savi

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### Deadline for manuscript submissions

closed (31 December 2020)



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## Message from the Editor-in-Chief

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### Editor-in-Chief

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