Special Issue

Applications of X-ray Phase Contrast Imaging

Message from the Guest Editor

X-ray Phase Contrast Imaging appeared few decades ago as an alternative to standard absorption-based Imaging. With X-rays, the refractive index of materials can be a thousand times greater than its counterpart absorption factor for light elements. This translates into a much greater contrast for soft tissues with X-ray imaging methods based on the sensing of the phase. This property becomes highly interesting when one wants to image with high-resolution biological tissue or light material that are generally admitted to be transparent to X-rays. With the emergence of partially coherent X-ray sources twenty years ago, expectations regarding PCI turned into a reality with the development at synchrotrons of several advanced PCI methods, some of them even later being adapted to laboratory sources. In this Special Issue, we invite submissions exploring cutting-edge research and recent advances in the fields of X-ray Phase Contrast Imaging. Both theoretical and experimental studies are welcome, as well as comprehensive review and survey papers.

Guest Editor

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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