

Symposium

New Methodology for Developing Innovative Materials

Innovative materials are strongly demanded to achieve SDGs, which are common issues for Human Beings. Creation of game-changing materials with extraordinary functions and the development of manufacturing processes without accompanying CO₂ emissions are examples of representative research challenges today. To approach these issues, revolution of methodology in materials research is needed. Fortunately, novel tools which have high potential to contribute to this purpose are now ready to apply to real materials research.

The aim of this symposium is to provide a forum to exchange the recent progress in materials research obtained by the novel approaches and discuss future directions. We welcome papers merging experimental sciences that have been the basis of substance and material development undertaken so far, with theory, computation, and data science, with the aim of building methods for innovative material development. Specifically, focuses are placed on the realization of materials or functions that have great societal needs but have not yet been achieved. The symposium not only covers materials science but also involves a complex system, which is essential for the development of real materials.

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