# Special Issue on Statistical Mechanics Research

## Call for Papers

Statistical mechanics is a branch of physics that applies probability theory to the study of the thermodynamic behavior of systems composed of a large number of particles. Statistical mechanics provides a framework for relating the microscopic properties of individual atoms and molecules to the macroscopic bulk properties of materials that can be observed in everyday life. Thus it explains thermodynamics as a result of the classical and quantum-mechanical descriptions of statistics and mechanics at the microscopic level. As one of most important branches in mechanics, statistical mechanics research is of great attractions to researchers.

In this special issue, we invite front-line researchers and authors to submit original research and review articles that explore **statistical mechanics research**. In this special issue, potential topics include, but are not limited to:

- Statistical thermodynamics
- Statistical fluctuations and the macroscopic limit
- Non-equilibrium statistical mechanics
- The application of statistical mechanics
- Statistical dynamics
- Statistical mechanics model
- Statistical mechanics algorithm

Authors should read over the journal's For Authors carefully before submission. Prospective authors should submit an electronic copy of their complete manuscript through the journal's Paper Submission System.

Please kindly specify the "**Special Issue**" under your manuscript title. The research field "**Special Issue - *Statistical Mechanics Research***" should be selected during your submission.

Special Issue timetable:

| Submission Deadline | March 30th, 2016 |
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| Publication Date | May 2016 |

**Guest Editors:**
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For further questions or inquiries

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