J-OCTA : An integrated simulation system for materials research and development

J-OCTA is an integrated simulation system for polymeric material which can be used as a knowledge discovery tool to understand complicated properties and phenomena. J-OCTA predicts material properties with multi-scale simulation technology, from atomic to micrometer scale, and supports the development of a wide variety of high functional materials such as rubbers, plastics, thin films, coatings, and electrolytes.

J-OCTA is the commercial version of OCTA which is an open source software package consists of simulation engines (Molecular Dynamics, Rheology simulation, Self-Consistent Field Theory, Finite Element Method, etc.) and a GUI (visualization, simple molecular builder and analysis tools) for modeling soft matter systems.

A converter program between LAMMPS and COGNAC (in OCTA,MD engine) files is also included. This functionality gives LAMMPS users the ability to use the OCTA GUI and run classical MD simulations in tandem with other theories such as SCFT.

JSOL Corporation has released the latest version of J-OCTA, v3.1, in July 2017. In v3.1, various new features and enhancements, such as new force field definitions and a force field optimizing functionality, have been added. The usability of the interface has been remarkably improved, an interface access to the job management system has been added, and the platform has been enhanced.

Please try and explore the powerful and user-friendly J-OCTA v3.1 at JSOL booth in LAMMPS Workshop and Symposium 2017.

Product: J-OCTA http://www.j-octa.com/
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