U.S. DEPARTMENT OF ENERGY | Office of Science

Molecularly Engineered Energy Materials (MEEM)

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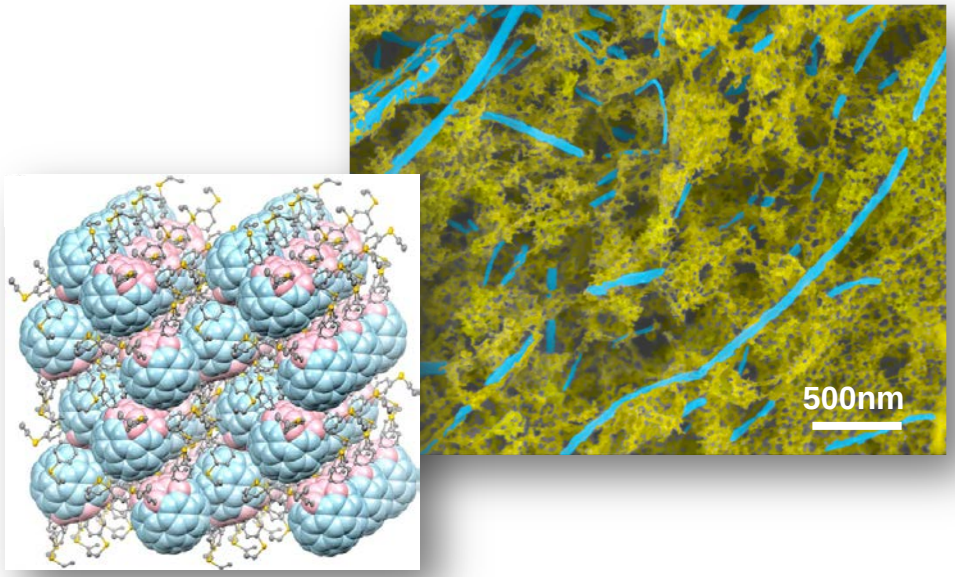
VISION STATEMENT

Using inexpensive custom-designed molecular building blocks, MEEM aims to create revolutionary new materials with self-assembled multi-scale architectures that will enable high performing energy generation and storage applications.



RESEARCH PLAN AND DIRECTIONS

Widespread adoption of renewable energy technologies requires significant improvements in their efficiency and cost. MEEM will conduct systematic studies of the fundamental mechanisms of carrier generation, energy conversion, as well as transport and storage of charge and mass in tunable, architectonically complex materials designed from the molecular and nanometer level. These materials will be used to significantly improve the performance of organic solar cells and supercapacitors.

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