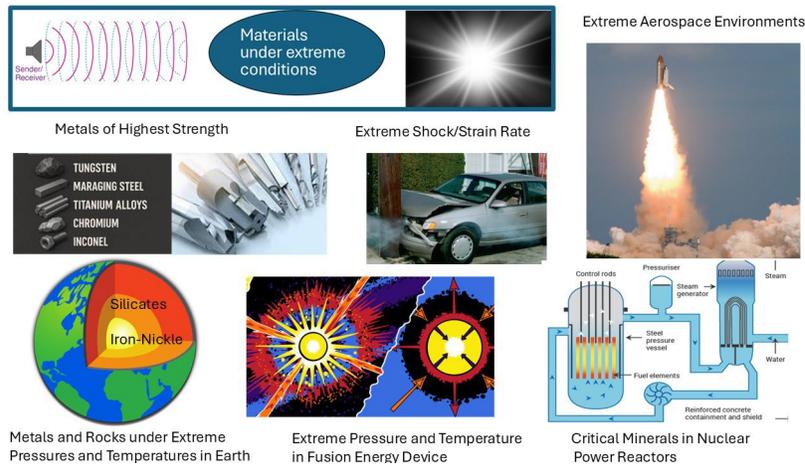


## BEHAVIOR OF CRITICAL MINERALS AND ROCKS UNDER EXTREME CONDITIONS REVEALED BY LIGHT AND SOUND

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**April 24, 7:30pm, Earth & Space Sciences 001**

The behavior and physical properties of critical minerals and rocks under extreme pressure and/or temperatures are of paramount importance for a range of technological and scientific applications, ranging from nuclear and energy sciences to the study of the deep interior of the Earth. Currently, much of this information is obtained from laboratory investigations involving experimental measurements and first principles calculations. In this talk, I will present data on some selected critical minerals under extreme conditions obtained using synchrotron X-radiation and ultrasound. In addition, studies of Earth materials under pressure and temperature conditions will be used to demonstrate their applications to advance our current understanding of the mineralogical composition of the Earth and other planets.



Baosheng Li received his PhD in Geophysics from Stony Brook University in 1996. He joined Mineral Physics Institute as a faculty member in 1997 and then the Department of Geosciences at Stony Brook University in 2018. His research focuses on the study of critical minerals and rocks under extreme pressure and temperature conditions and their applications in modern technology, nuclear and energy sciences, as well as advancing current understanding of the interior of the Earth and other planets.