



清华工业生物催化论坛

TSINGHUA FORUM ON INDUSTRIAL
BIOCATALYSIS

Molecular and Large Scale Simulations and Experiments in Relation to CO₂ and in Geothermal

报告人: Professor Abbas Firoozabadi

报告时间: 2023 年 9 月 28 日 周四上午 9:00-11:00

报告地点: 工物馆 324A



报告人简介:

Abbas Firoozabadi is a senior scientist and director at the Reservoir Engineering Research Institute (RERI) in Palo Alto, CA, a Distinguished Research Professor at Rice University, Houston, and a Distinguished Visiting Professor at Peking University in Beijing, China. He has previously taught thermodynamics at Yale University, New Haven, CT. for 10 Years and at Imperial College London for 7 years.

The major research focus of Abbas has been on efficient production from subsurface hydrocarbon formations and related environmental stewardship. His research work covers higher-order numerical modeling of subsurface flow, bulk phase-phase thermodynamics, interfacial thermodynamics, and irreversible thermodynamics. Both continuum scale and molecular simulation methods are advanced to study new improved hydrocarbon recovery methods and productions from shale formations. Current focus includes molecular engineering to use small amounts of functional molecule for efficiency, and stewardship of the environment.

Abbas is the author of two books on thermodynamics and applications in hydrocarbon energy productions published by McGraw-Hill. He has also published some 250 papers in the Journals of the Society of Petroleum Engineers (SPE), ACS Central Science, Journal of Physical Chemistry C, Chemical Physics, Current Opinions in Colloids and Interface Science, Langmuir, Soft Matter, and other scholar Journals.

Firoozabadi has received 4 of the 5 major awards of the Society of Petroleum Engineers including the SPE Anthony Lucas Gold Medal. He is also a member of the National Academy of Engineering (NAE).

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