



CERTIFICATE
Issued Jan. 14th, 2013

This is to certify that

Ryan MacDonald

successfully completed

3.091x: Introduction to Solid State Chemistry

a course of study offered by **MITx**, an online learning
initiative of **The Massachusetts Institute of Technology** through **edX**.

A handwritten signature in black ink, reading "Michael J. Cima".

Michael J. Cima
Professor, Dept. of Materials Science and Engineering
Massachusetts Institute of Technology

A handwritten signature in black ink, reading "Sanjay Sarma".

Sanjay Sarma
Director of Digital Learning
Massachusetts Institute of Technology

HONOR CODE CERTIFICATE

*Authenticity of this certificate can be verified at <https://verify.edx.org/cert/984c0ce64b7046ea86e9fd9352e73abb>