

Modelling an Enzyme Based Electrochemical Blood Glucose Sensor with COMSOL Multiphysics

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Abstract

This paper describes the modeling of a blood glucose sensor using COMSOL Multiphysics. Chemical species interaction and diffusion, coupled with electrochemical oxidation of multiple blood species produced a powerful working model used in developing and refining a range of blood glucose sensors for the commercial market.

Figures used in the abstract

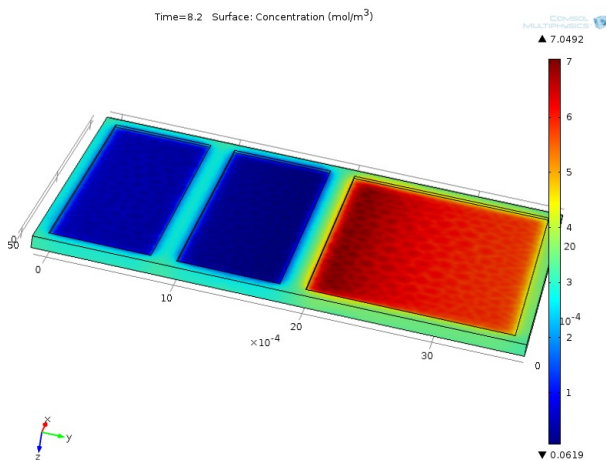


Figure 1