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Tuesday, October 19, 2021

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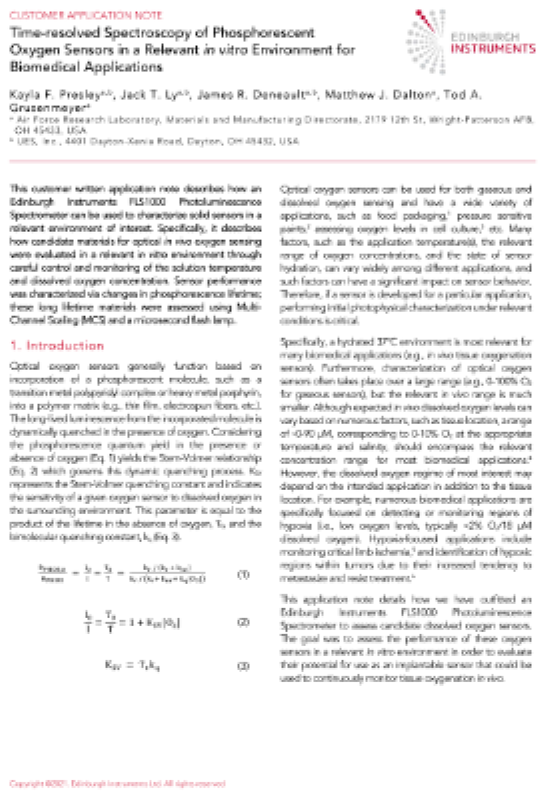
CUSTOMER APPLICATION NOTE
Time-resolved Spectroscopy of Phosphorescent Oxygen Sensors in a Relevant in vitro Environment for Biomedical Applications
EDINBURGH INSTRUMENTS

Time-resolved Spectroscopy of Phosphorescent Oxygen Sensors in a Relevant in-vitro Environment for Biomedical Applications

Application note describing how a Photoluminescence Spectrometer can be used to characterize solid sensors in a relevant environment of interest. It shows how candidate materials for optical in vivo oxygen sensing were evaluated in a relevant in-vitro environment through careful control and monitoring of the solution temperature and dissolved oxygen concentration. Sensor performance was characterized via changes in phosphorescence lifetime; these long lifetime materials were assessed using Multi-Channel Scaling (MCS) and a microsecond flash lamp.

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- Raman Spectroscopy as a Tool for Studying Polymer Phase Transitions
- Discrimination of Cooking Oils Using Raman Spectroscopy

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