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Assoc. Prof. Xiangqun Zeng improves the Quartz Crystal Microbalance

A **Quartz Crystal Microbalance** is an instrument that can detect mass deposited on crystal surface by monitoring changes in the microbalance oscillation frequency. In the December 17, 2008 issue of the journal **Analytical Chemistry**, Associate Professor **Xiangqun Zeng**, of the **Department of Chemistry**, and her coworkers published an article about a **Multichannel Monolithic Quartz Crystal Microbalance Gas Sensor Array** (Volume 81, Pages 295-603). What does this instrument have to do with biomedical research? Zeng et al. write that in the past decade the Quartz Crystal Microbalance has been explored as a transducer for monitoring a plethora of biospecific interactions, including enzymatic reactions, DNA interactions, protein-ligand interactions, and has been used to detect biomarkers, drug targets, virus capsids, bacteria, and living cells. Zeng's laboratory is supported by a grant from the National Institutes of Health. First author Xiaoxia Jin recently received a PhD from Oakland University in **Biomedical Sciences: Health and Environmental Chemistry**.

SUMMARY

A Quartz Crystal Microbalance is an instrument that can detect mass deposited on crystal surface by monitoring changes in the microbalance oscillation frequency.

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