

## Selected publications (2016-2021)

I. Bakos, Á. Vass, E. S. Muckley, I.N. Ivanov, Z. Keresztes

**Indirect electrochemical method for high accuracy quantification of protein adsorption on gold surfaces**

ELECTROCHEMISTRY COMMUNICATIONS 124, 106961 (2021)

<https://doi.org/10.1016/j.elecom.2021.106961>

T. Marek, G. Orbán, D. Meszéna, G. Márton, I. Ulbert, G. Mészáros, Z. Keresztes

**Optimization aspects of electrodeposition of photoluminescent conductive polymer layer onto neural microelectrode arrays**

MATERIALS CHEMISTRY AND PHYSICS 260, 124163 (2021)

<https://doi.org/10.1016/j.matchemphys.2020.124163>

G. Mészáros, Gábor, S. Akbarzadeh, B. De La Franier, Z. Keresztes, M. Thompson

**Advances in Electromagnetic Piezoelectric Acoustic Sensor Technology for Biosensor-Based Detection**

CHEMOSENSORS 9:3, 58 (2021)

<https://doi.org/10.3390/chemosensors9030058>

L. Románszki, T. Hianik, Z. Keresztes

**Plasmin determination based on enzymatic digestion of a  $\beta$ -casein layer at the air/water interface**

COLLOIDS AND SURFACES A : PHYSICOCHEMICAL AND ENGINEERING ASPECTS 609, 125786 , (2021)

<https://doi.org/10.1016/j.colsurfa.2020.125786>

A. Shaban, L. Eddaif

**Comparative study of a sensing platform via functionalized Calix[4]resorcinarene ionophores on QCM resonator as sensing materials for detection of heavy metal ions in aqueous environments**

ELECTROANALYSIS Paper: elan.202060331 (2021)

<https://doi.org/10.1002/elan.202060331>

L. Románszki, Z. Varga, J. Mihály, Z. Keresztes, M. Thompson

**Electromagnetic piezoelectric acoustic sensor detection of extracellular vesicles through interaction with detached vesicle proteins**

BIOSENSORS 10 : 11: 173 (2020)

<https://doi.org/10.3390/bios10110173>

L. Eddaif, A. Shaban, J. Telegdi

**Sensitive detection of heavy metals ions based on the calixarene derivatives-modified piezoelectric resonators: a review**

INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY 99 : 9, 824-853 (2019)

<https://doi.org/10.1080/03067319.2019.1616708>

L. Románszki, M. Tatarko, M. Jiao, Z. Keresztes, T. Hianik, M. Thompson

**Casein probe-based fast plasmin determination in the picomolar range by an ultra-high frequency acoustic wave biosensor**

SENSORS AND ACTUATORS B-CHEMICAL 275, 206-214 (2018)

<https://doi.org/10.1016/j.snb.2018.08.025>

M. Pávai, E. Orosz, A. Paszternák

**Smartphone based extension of the curcumin/cellophane pH sensing method**

FOOD ANALYTICAL METHODS 9:(4) 1046-1052 (2016)

<https://doi.org/10.1007/s12161-015-0277-5>