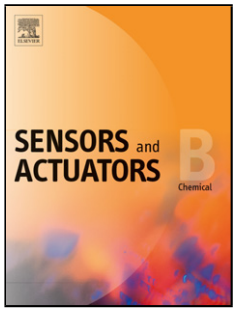

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Author: Anju Joshi Wolfgang Schuhmann Tharamani C. Nagaiah

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Mesoporous Nitrogen Containing Carbon Materials for the Simultaneous Detection of Ascorbic acid, Dopamine and Uric acid

Anju Joshi [a], Wolfgang Schuhmann[b], Tharamani C. Nagaiah[a]*

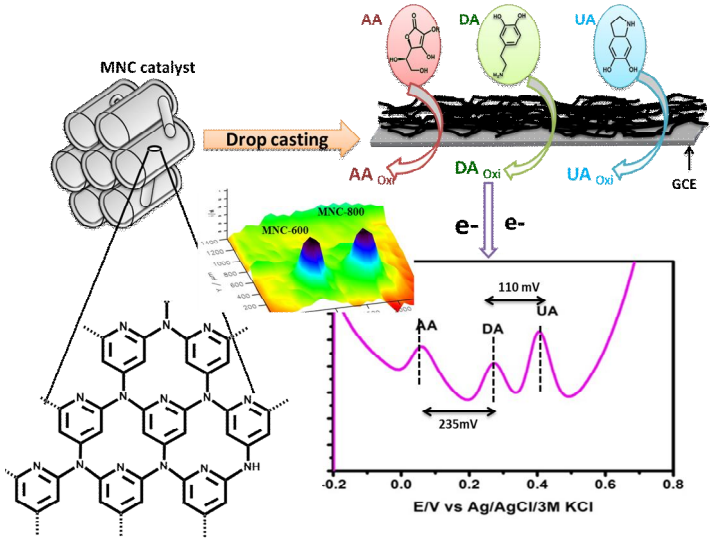
[a]Department of Chemistry, Indian Institute of Technology Ropar, Rupnagar, Punjab 140 001, India

[b]Analytical Chemistry – Center for Electrochemical Sciences (CES), Ruhr-Universität Bochum, Universitätsstr. 150, D-44780 Bochum, Germany

Corresponding Author

* E-mail: tharamani@iitrpr.ac.in.Tel.: +91-1881-24- 2235; Fax: +91-1881-22-3395

Graphical abstract



Mesoporous nitrogen rich carbonaceous (MNC) materials have been synthesized at two different temperatures of 600 and 800 ºC and explored for simultaneous determination of ascorbic acid (AA), dopamine (DA) and uric acid (UA). The electrocatalytic activity of these materials for the oxidation of analyte molecules was examined by means of redox-competition mode of scanning electrochemical microscopy (SECM), voltammetric, chronoamperometric and rotating disc electrode (RDE) measurements.