According to a first aspect of the invention, a method for manufacturing a working electrode of an analyte sensor is provided, wherein the method comprises the following steps:

(a) providing a substrate comprising

- a first side and a second side,
- at least one conductive material positioned on the first side of the substrate,

(b) applying a sensing material to an application area on the first side of the substrate, and

(c) obtaining the working electrode of the analyte sensor on the first side of the substrate,

wherein the sensing material may comprise at least one enzyme and at least one crosslinker,

wherein the sensing material is applied in step (b) in a wet layer thickness of greater than about 20 µm in a single application, wherein step (b) is carried out via cannula-coating.

In certain embodiments, step (b) is performed only once.

In an embodiment, the sensing material is applied in step (b) in a wet layer thickness of greater than about 70 µm in a single application.

In certain embodiments, the method further comprises:
drying the applied sensing material.

In certain embodiments, step (c) of the method further comprises:
curing the applied sensing material wherein at least a part of the sensing material is crosslinked.

In certain embodiments, step (c) of the method further comprises:
coating the sensing material with at least one further polymer layer.

A further aspect of the invention relates to a method for manufacturing an analyte sensor comprising manufacturing the working electrode as described above and providing at least one further electrode.

Still a further aspect of the invention relates to an analyte sensor comprising:
(i) a substrate comprising
- a first side and a second side, and
- at least one conductive material positioned on the first side of the substrate,
(ii) a working electrode comprising a sensing material, which at least partially covers the first side of the substrate,
wherein the sensing material forms a layer on the first side of the substrate,
wherein the layer of sensing material comprises edges generated by the application of the sensing material onto an application area on the substrate,
wherein the sensing material may comprise at least one enzyme and optionally at least one crosslinker,
wherein the layer of sensing material has a dry average total thickness in the range from about 3 µm to about 8 µm, particularly from about 3 µm to about 6 µm and more particularly from about 4 µm to about 5 µm,
and wherein the dry total thickness of the layer of sensing material along at least one of said edges is substantially the same or is increased compared to the dry average total thickness of the layer of the sensing material.

In certain preferred embodiments, the sensing material comprises at least one enzyme and at least one crosslinker.

In certain alternative embodiments, the sensing material comprises at least one enzyme and does not comprise a crosslinker.