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(54) Title: FLOW CELLS

(57) Abstract: An example method includes introducing a first fluid to a flow channel of a flow cell including a working electrode having a surface that is at least partially exposed to the flow channel, the surface being unmodified or modified with a first member of a transition metal complex binding pair, whereby a linking moiety of a complex present in the first fluid chemically attaches the complex to the surface to form a temporarily modified surface of the working electrode; performing a sensing operation involving the complex of the temporarily modified surface; and applying a desorption voltage of the linking moiety to the working electrode, thereby detaching the linking moiety and regenerating the surface.