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Turkish Journal	Hydrogen Evolution at Platinum (Pt) and at Platinized Platinum (Ptz) Cathodes
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Keywords Authors	Abstract: In this study, the cathodic behaviours of bright platinum (Pt) and at platinized platinum (Ptz) on the platinum anode were investigated in a 1M Na ₂ SO ₄ electrolyte (pH, from 2 to 8) by means of
	electrolysis. The theoretical (Δ Erev) and experimental (Δ E _{exp}) discharge potentials and the cathodic
	overpotentials (η c) of the systems were determined. The amounts of hydrogen gas produced at different times on the cathodes at a constant potential (5V) were measured and the hydrogen yield was calculated. The resulting scheme has been very helpful to obtain wodified electrocatalytic coating and
@	electrode structures at Ptz cathode, able to operate for long time with good and stable performances.
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