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Turkish Journal	The Direct Electrochemical Synthesis of Ti(II), Fe(II), Cd(II), Sn(II), and Pb(II) Complexes with N, N´-Bis(Salicylidene)-o-Phenylenediamine
of	
Chemistry	Jianning LIU, Bing ZHANG, Bowan WU, Kejun ZHANG, Shenli HU Department of Chemistry, Longdong University, Qinyang 745000, Gansu, P. R. CHINA e-mail: Ijnly@ldxy.com.cn
Keywords Authors	<u>Abstract:</u> The electrochemical oxidation of anodic Ti, Fe, Cd, Sn, and Pb (=M) into acetonitrile solutions of N,N'-bis(salicylidene)-o-phenylenediamine [SalophH ₂] gives the corresponding M(Saloph) complexes
	in high yield. The mechanism of the electrochemical reactions is discussed. SalophH ₂ forms complexes
	(1:1 molar ratio) with titanium, iron, cadmium, tin, and lead ions. The complexes have been characterized by elemental analyses, molar conductivity measurements, and infrared and electronic spectral data. The SalophH ₂ complexes of iron(II) and cadmium(II) have been further identified by ¹ H-
0	NMR and mass spectra.
chem@tubitak.gov.tr	Key Words: Electrochemical Synthesis, N, N'-Bis(Salicylidene)-o-Phenylenediamine, metal complex
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