

List of Tables

Table	Title	Page
2.1	List of low temperature SSAC in chronological order	16
2.2	List of Mid temperature SSAC in chronological order	17
2.3	List of high temperature SSAC in chronological order	19
3.1	Experimental detail for Ni and Cr-Cr ₂ O ₃ (BC) electrodeposition	27
3.2	Reaction mechanism for Ni and Cr-Cr ₂ O ₃ deposition	27
5.1	Absorptance and emittance of samples deposited for different time duration	49
5.2	Measurement detail of ICP-OES experiment for Sample B	50
5.3	Detail of Raman measurement of Sample A, Sample B, Sample C and Sample D	52
5.4	Estimated absorptance and emittance of Sample A, Sample B, Sample C and Sample D	53
5.5	Detail of measured corrosion parameter of Sample A, Sample B and Sample E	55
5.6	Different Impedance parameters, estimated using equivalent circuit fitting of impedance data for Sample A, Sample B and Sample E	56
6.1	Deposition condition used for tungsten film on SS substrate using sputtering	58
6.2	Crystallographic information of two sample of tungsten layer deposited on SS substrate.	60
7.1	The estimated absorptance and emittance for different sample during optimization	67
7.2	Optical properties of sample A, Sample B and Sample C	69
7.3	Measured corrosion parameter for pristine SS and Sample A	71