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List of Abbreviations

%	-	Percentage
θ	-	Surface Coverage
AFM	-	Atomic Force Microscopy
b_a	-	Anodic Tafel Slope
b_c	-	Cathodic Tafel Slope
C_{dl}	-	Double Layer Capacitance
CPE	-	Constant Phase Element
CR	-	Corrosion Rate
DSC	-	Differential Scanning Calorimetry
DTA	-	Differential Thermal Analysis
E_{corr}	-	Corrosion Potential
EDX	-	Electron Dispersive X ray Analysis
EIS	-	Electrochemical Impedance Spectroscopy
FTIR	-	Fourier Transform Infrared Spectroscopy
H_2SO_4	-	Sulphuric acid
HCl	-	Hydrochloric Acid
HOMO	-	Highest Occupied Molecular Orbital
I_{corr}	-	Corrosion Current Density
IE	-	Inhibitor Efficiency
LUMO	-	Lowest Occupied Molecular Orbital
Mpy	-	Mills Per Year
MS	-	Mild Steel
PDP	-	Potentiodynamic Polarization
ChSSB	-	Chitosan Salicylaldehyde Schiff base
ChVSB	-	Chitosan Vanillin Schiff base

ChTSB	-	Chitosan Thiophene 2- carboxaldehyde Schiff base
ChPSB	-	Chitosan Pyrrole carboxaldehyde Schiff base
PZC	-	Potential Zero Charge
QSAR	-	Quantitative Structure Activity Relationship
R _p	-	Polarization resistance
RMS	-	Root Mean Square
SEM	-	Scanning Electron Microscope
SIE	-	Scale Inhibition Efficiency
TGA	-	Thermo Gravimetric Analysis
UV	-	Ultra Violet – Visible spectroscopy
XPS	-	X-ray Photon spectroscopy
DFT	-	Density functional theory
AFM	-	Atomic force microscopy
CaCO ₃	-	Calcium carbonate
CV	-	Cyclic voltammetry