

## List of Symbols

<b>Symbol</b>	<b>Description</b>
$\alpha$	Alpha
$\beta$	Beta
$\pi$	Pie
$C=O$	Carbonyl group
$\lambda_{\max}$	Maximum wavelength
$\lambda_{\text{em}}$	Emission wavelength
$\lambda_{\text{ex}}$	Excitation wavelength
$C_{\text{SC}}$	Chemical capacitance
$\Omega$	ohm
$C_T$	Electrolyte capacitance
$T_{10}$	Onset temperature
$T_{50}$	Light off temperature
$T_{90}$	Maximal conversion temperature
$T_m$	Peak temperature
$-NH_2$	Amino group
$T_m$	Melting temperature
$T_{10}$	The temperature at which 10% of the total weight loss occurs
$T_{50}$	Light off temperature at which 50% of the total weight loss occurs
$T_{90}$	The temperature at which 90% of the total weight loss occurs
$\mu\text{M}$	Micrometers
$\text{mM}$	Millimeter
$\text{nm}$	Nanometer
$-\text{OH}$	Hydroxyl group
$-\text{O}-\text{CH}_3$	Methoxy group
$\text{cm}$	Centimeters
$^{\circ}\text{C}$	Degree celsius
$J_0$	Exchange current density
$J_{\text{lim}}$	Limiting current density
$E_{\text{pp}}$	Peak to peak potential
$O_{\beta}$	Lattice oxygen
$O_{\alpha}$	Chemisorbed oxygen
$N_3$	Ruthenium based dye
$\tau$	Lifetime
$\text{HCl}$	Hydrogen chloride
$n$	Binding parameter
$\mu\text{L}$	Microliters
$\text{Hz}$	Hertz
$V$	Voltage
$\text{CaCl}_2$	Calcium chloride
$\text{KOH}$	Potassium hydroxide
$R_s$	Series resistance
$R_{\text{ct}}$	Charge transport resistance
$V_{\text{OC}}$	Open circuit Potential
$J_{\text{sc}}$	Short circuit potential
$F$	farad
$R_1, R_2$	Counter electrode and electrolyte charge transfer resistance

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