

Table S1 XPS semi-quantitative analysis results for Co<sup>2+</sup> and Co<sup>3+</sup>.

<b>Element</b>	<b>Peak position</b>	<b>FWHM</b> <b>eV</b>	<b>Area(p)</b> <b>CPS.eV</b>	<b>Atomic</b> <b>%</b>
<b>Co<sup>3+</sup></b>	779.6	3.19	14687.83	21.21
<b>Co<sup>2+</sup></b>	781.5	3.02	54447.12	78.79