

# Graphene/Ruthenium Sulphide aerogel as electrode for supercapacitor applications

Arnaud Gigot <sup>1,2,\*</sup>, Marco Fontana <sup>2</sup>, Candido Fabrizio Pirri <sup>1,2</sup> and Paola Rivolo <sup>2</sup>

<sup>1</sup> Dipartimento di Scienza Applicata e Tecnologia, Politecnico di Torino, 10129, Torino, Italy

<sup>2</sup> Center for Sustainable Future Technologies, Istituto Italiano di Tecnologia, 10129, Torino, Italy

\* Corresponding Author: arnaud.gigot@polito.it; Tel: +39 011 090 7343

## EDX ANALYSIS

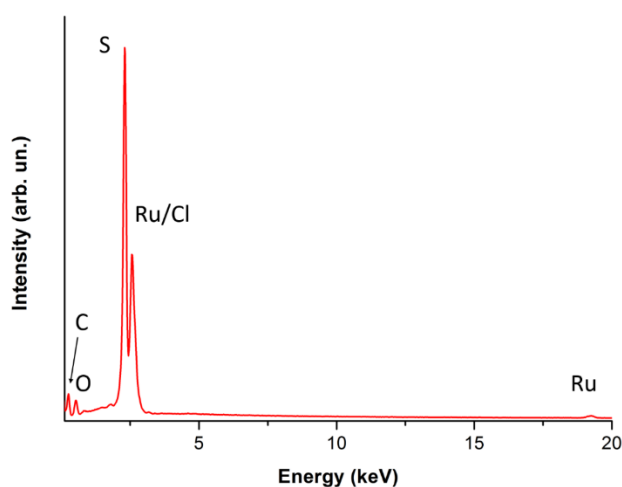


Figure S1: Representative EDX spectrum of RGO/RuS<sub>2</sub> sample.

## XPS ANALYSIS

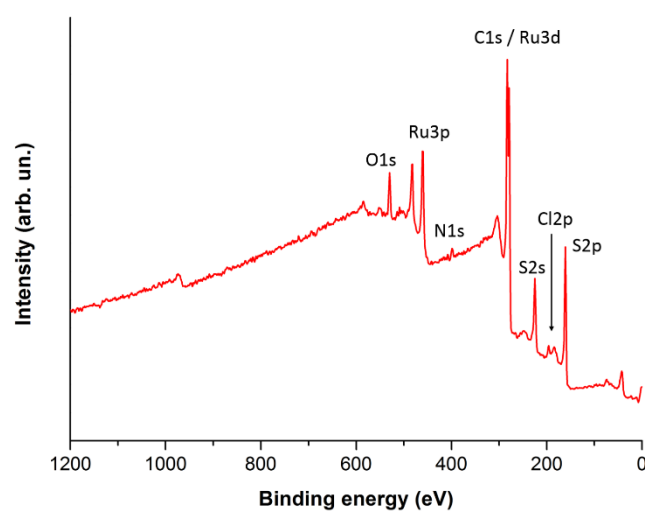


Figure S2: Survey spectrum of RGO sample decorated with RuS<sub>2</sub> nanostructures.

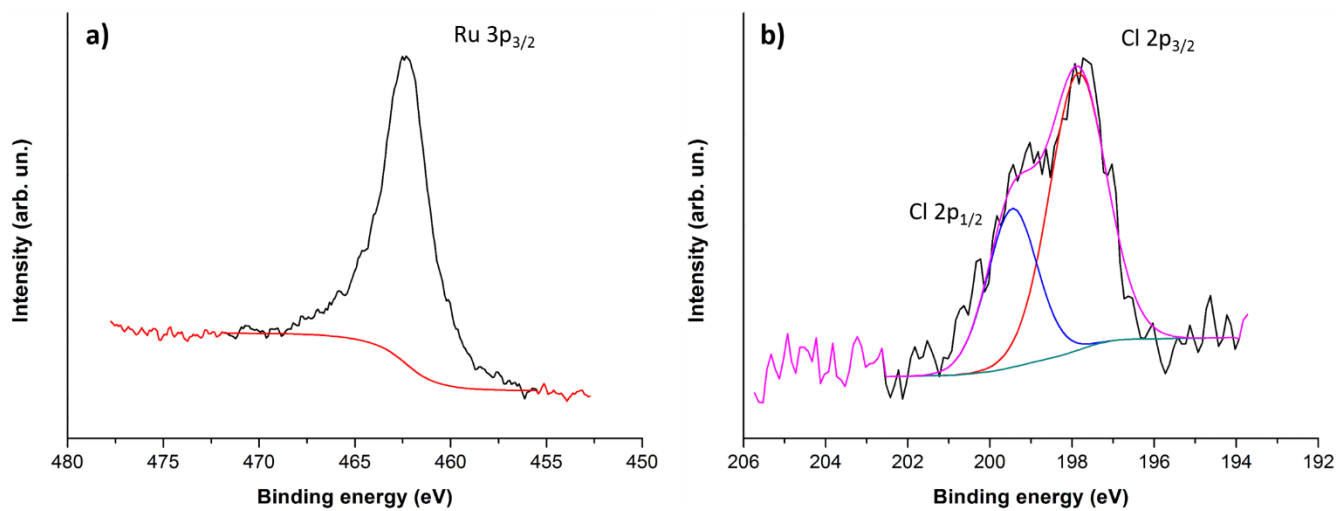


Figure S3: High-resolution XPS scans of the Ru 3p<sub>3/2</sub> (a) and Cl 2p (b) regions.