

# EELS Data Base

Inner & Outer Shell Excitation Spectrum Repository



Universidad  
Zaragoza

## Redevelopment of the EELS Data Base

L. Lajaunie<sup>1,2</sup>, P. Ewels<sup>3</sup>, T. Sikora<sup>4</sup>, V. Serin<sup>5</sup>

The EELS database is the largest open-access electronic repository of spectra from Electron Energy-Loss Spectroscopy and X-ray Absorption Spectroscopy. The database is now a common tool used by spectroscopists, theoreticians, students and private firms and has been referenced by more than 30 papers. We have performed a major update of the website, soon to be accessible at <http://eelsdb.eu/>

- Updated style and design
- New interactive spectrum plots
- Better references with linked DOIs
- Streamlined submission process
- News, forum and job postings

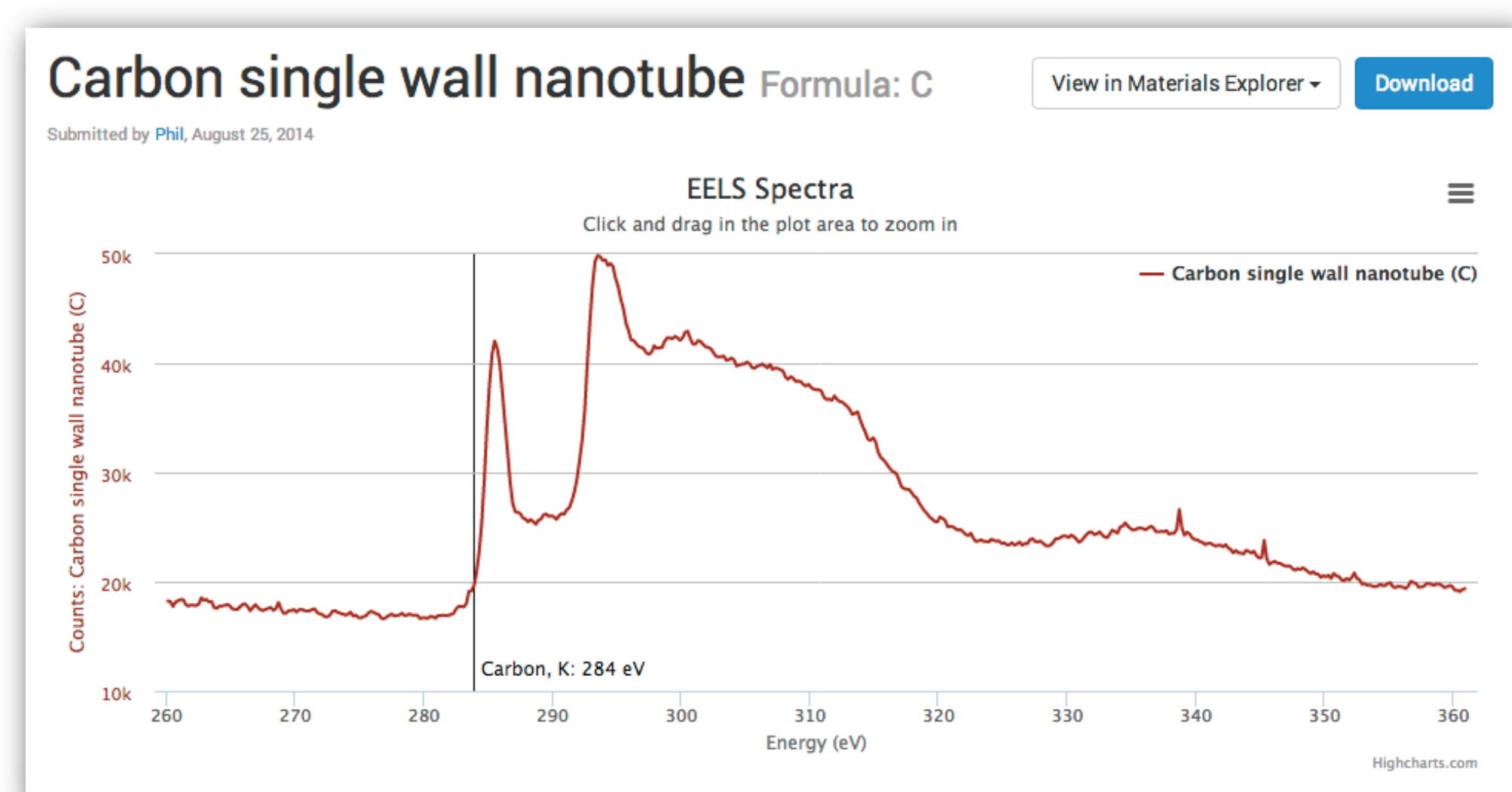
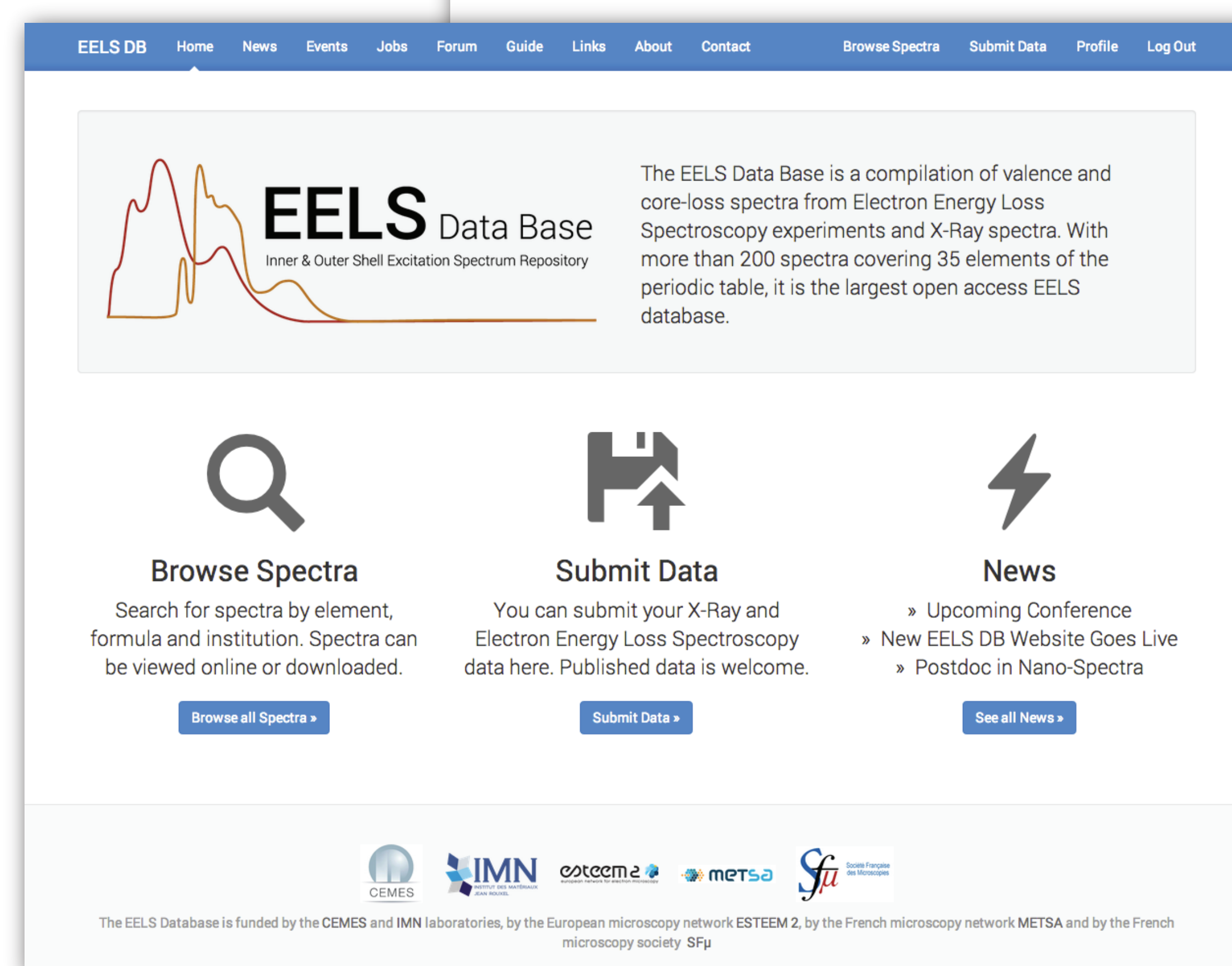
It is hoped that these changes will improve the user experience on the site and increase the number of spectra uploads.

### The EELS Data Base

Inner & Outer Shell Excitation Spectrum Repository

Home | Search Data | Submit Data | Community | Bibliography | Links | Feedback |

Welcome to the EELS database.



### Interactive spectra

Spectra are now interactive and zoomable. Edges are labelled and multiple spectra can be overlaid for comparison. Data can be downloaded for use in your software (HyperSpy, DigitalMicrograph, MATLAB).

### Open Access

Many grant applications such as Horizon 2020 require researchers to specify how they will make their data available with a Data Management Plan (DMP). EELSdb is the perfect partner!

**Horizon 2020 compliant**

### Simple references and enhanced connectivity

Spectra can be associated with DOI references, linking directly to the relevant publication. Member profiles can be associated with ORCID identifiers and LinkedIn profiles.

### Easy and quick to add your EELS spectra to the database

Streamlined data submission process, with the ability to save instrument details for future uploads and in-page validation. We hope to add an API for integration with the popular HyperSpy package.

### Open source and free to use

No login required to browse and download, all data is released under an Open Database Licence and free to use.

### Community Focal Point

EELS db is a place for researchers to gather and communicate. The site is built by the EELS community for the EELS community.

Job Adverts  
Bibliography  
Forum  
Event Listings  
Spectra Comments

# <http://eelsdb.eu>

1. Institut des Matériaux Jean Rouxel, (IMN) – Université de Nantes, CNRS, 2 rue de la Houssinière - BP 32229, 44322 Nantes Cedex 3, France  
2. Universidad de Zaragoza, Instituto de Nanociencia de Aragon, Zaragoza 50018, Spain  
3. Science for Life Laboratory, Department of Biochemistry and Biophysics, Stockholm University, Stockholm SE-106 91, Sweden  
4. SAVANTIC AB, Rosenlundsgatan 50, 118 63 Stockholm, Sweden  
5. CEMES, Université Toulouse 29 rue Jeanne Marvig BP 94347 31055 Toulouse, France

With thanks to our  
sponsors:

