



CONCERT-Japan

Efficient Energy Storage and Distribution

INTERIM REPORT

"Low-cost and efficient sodium-ion battery based on abundant elements "

LIBRA

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The LIBRA project aims at studying materials for low-cost batteries based on sodium. Three research groups from Japan (Komaba group), Spain (Rojo group) and Germany (Adelhelm group) are combining efforts in developing materials for sodium-ion batteries. Studies in particular focus on graphite/carbon materials as negative electrode and layered oxides as positive electrodes.

Part of the project was the organization of an international workshop including participants and PIs from all project partners. The workshop took place from Nov 8-9 in Jena, Germany, with around 50 participants from academia and industry. 19 oral talks and 17 poster presentations were given. Lab stays between the different groups were organized and joint studies were undertaken. The consortium was presented at the EIG Concert Japan meeting in Norway in 2019 and results were presented on several occasions. In particular, one joint study on electrolyte stability was published in *ACS Appl. Mater. Interfaces* 2019, 11, 36, 32844-32855 (doi: 10.1021/acsami.9b06760), see also the press release <http://concert-japan.eu/spip.php?article75>. Another publication on cathode materials with contributions from the consortium has been submitted for publication and is currently under review.