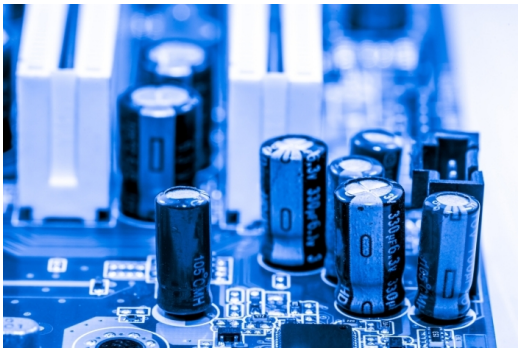
(Photo)-and electrocatalysis at the atomic: from the atomic scale to advanced devices (PECAS-CAT&SCALE)



Mai. 06 - Mai. 09 2024

Kod. Z02-24

Mod.:
Aurrez aurrekoa

Edizioa
2024

Jarduera mota
Workshop

Data
Mai. 06 - Mai. 09 2024

Kokalekua
UPV/EHUko Kimika Fakultatea

Hizkuntzak
Ingelesa

Balio akademikoa
40 ordu

Webgunea
https://pecas2024.dipc.org/

Antolakuntza Batzordea

Azalpena

PECAS – CAT&SCALE scopes the integration of electrochemistry and surface science research areas towards the understanding of the nature of the electrode-solution interface at an atomic level. Leading experts across the different disciplines will present the latest experimental and theoretical efforts in the field of photo- and electrochemistry on surfaces, promoting in depth discussions between students and scientific community from both fields.

The seminars will be delivered at the postgraduate level in the fields of surface science and electrochemistry, but introductory lectures will be specially addressed to introduce master and graduate students from Chemistry and/or Physics in each topic covered in the school.

Topics:

· In situ and in operando electrochemistry-surface science techniques and methods

· Energy conversion from photon and chemical energy to electrical energy

· Electrocatalysts for water splitting and CO2 reduction

· Local active sites on solid surfaces: reactivity of defects

· Chemical engineering and synthesis of photoelectrochemical systems

· Novel materials for electrochemical energy storage

· Electrochemical biosensors

· Theoretical modeling

ORGANIZING COMMITTEE:

Sara Barja (UPV/EHU)

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Helburuak

The school PECAS- CAT&SCALE is aimed at promoting various opportunities for interdisciplinary discussion of scientists and students of physics, material science, chemistry and electrochemistry in addition to presentation of new results, ideas and methods in the field of photo- and electrochemical properties of novel materials.

Ikastaroaren laguntzaile espezifikoak

Zuzendaritza

Sara Barja Martínez

UPV/EHU - DIPC

Sara Barja is currently a Ikerbasque Research Associate at the University of the Basque Country (UPV/EHU) and the Centro de Física de Materiales (CFM). Her work seeks to understand the existing relationships between structure and reactivity in electrocatalysis processes. With a PhD in Physics, she has developed her research career between Spain, the United States, and Germany. She currently coordinates an ERC-StG project that aims to produce H2 from seawater. For this, she combines the study of catalysts using scanning probe microscopies with atomic resolution and X-ray photoemission spectroscopy under near real operating conditions. Her career has been recognized with the Hypatia 2019 and Ikerbasque 2023 awards. She has participated in various dissemination events such as Naukas, Jakin-mina, or Qué sabemos de...?

Irakasleak

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Paramaconi Rodriguez Perez

CIC energiGUNE

Juan Jesús Velasco Vélez

ALBA synchrotron

Matrikula prezioak

REGISTRATION FEES	2024-04-23 ARTE
Fee Waiver	0 EUR
Regular attendant	350,00 EUR

Kokalekua

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Gipuzkoa