



## RES OUTSTANDING SCIENTIFIC PAPER AWARD 2022

The Spanish Supercomputing Network (RES) offers high performance computing (HPC) resources to the scientific community to carry out analysis and simulations for their research projects. Recently, it also offers data management services to the researchers. Besides computing time and data services, the RES services offer expert advice and support for its users. As an output of the users' research projects many scientific papers are published annually by the RES users, mainly in the framework of international collaborations.

The RES Outstanding Scientific Paper Award aims at highlighting the quality of the research carried out by RES users. Candidates can participate by submitting their papers published during the last year in a peer-reviewed scientific journal. The nomination is decided by the RES Council based on the propositions of the Access Committee coordinators which will evaluate each application based on the excellence of the candidate and the work presented in the paper. The work described in the paper must have been carried out using RES HPC resources. The awarded researcher will be invited for an oral presentation during the next year edition of the Users Meeting.

The 2022 awardee will be announced during the 16th RES Users Conference that will be held on 14-15 September 2022. This is an award that the RES assigns as a sign of recognition to the high-quality works that have been published using the HPC resources provided.

Candidates should register in the 16th Users Conference registration link and upload a pdf copy of their paper until September 2, 2022. <https://www.res.es/en/events/16th-users-conference>

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Past Awards:

<b>2020</b> <u>Ion Errea</u> , Donostia International Physics Center (DIPC)	<b>2021</b> <u>Alba Nin-Hill</u> , Universitat de Barcelona
Quantum crystal structure in the 250-kelvin superconducting lanthanum hydride Authors: Ion Errea, Francesco Belli, Lorenzo Monacelli, Antonio Sanna, Takashi Koretsune, Terumasa Tadano, Raffaello Bianco, Matteo Calandra, Ryotaro Arita, Francesco Mauri, José A Flores-Livas. <i>Nature</i> (2020) 578:7793	<i>The Catalytic Reaction Mechanism of the <math>\beta</math>-Galactocerebrosidase Enzyme Deficient in Krabbe Disease</i> Authors: Alba Nin-Hill, Carme Rovira <i>ACS Catal.</i> 2020, 10, 20, 12091–12097