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How photons disappear?

The theory developed by researchers at our Institute has made it possible to interpret experiments on the lifetime of photons in superconducting circuits.

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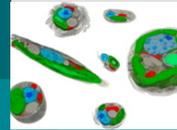
**Manuel Houzet
Phelips**

Phys. Rev. Lett., 2021
Phys. Rev. Lett., 2020

Three-dimensional architectures of phytoplankton for energy metabolism

The physiological responses of phytoplankton are based on characteristics of their main organelles, opening up prospects for exploitation in algal biomass production.

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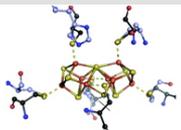
**Giovanni Finazzi
LPCV**

Nature Communications, 2021

A successful fusion for a key intermediate en route to the nitrogenase active site

Crystallographic structure and mechanism of operation of NifB, a key intermediate in the formation of the active centre of nitrogenase, responsible for the reduction of atmospheric nitrogen to plant-usable ammonia.

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**Yvain Nicolet
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Chemical Science, 2021

Well Plate Maker: A user-friendly app to limit batch effects in large-scale biomedical studies

WPM uses a backtracking-inspired algorithm to randomly place samples on well plates according to specific neighborhood constraints, without programming skills.

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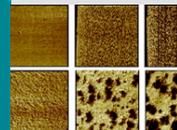
**Thomas Burger
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Bioinformatics, 2021

Morphology of chemically stabilized proton exchange membranes for fuel cell

Development of a new generation of proton exchange membranes for fuel cells leading to promising performance and durability.

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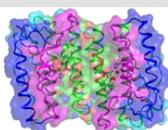
**Hakima Mendil-Jakani
SyMMES**

Nanoscale Adv., 2021
J. Power Sources, 2020

The enzymology of tRNAs modifications: A biochemist's treasure trove

In vivo activity, crystallographic structure, biochemical and spectroscopic characterization of MiaE, one of the enzymes involved in the transfer RNA biosynthesis pathway.

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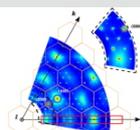
**Mohamed Atta
CBM**

Nucleic Acids Research, 2020

Spintronics relies on the Janus SPTSe biface

A new two-sided Janus SPTSe material has been developed for potential applications in magnetic and ferroelectric memories.

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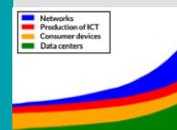
**G. Renaud - MEM
M. Jamet - Spintec**

npj 2D Materials and Applications, 2020

Environmental impact of perpendicular magnetic memories

The substitution of nickel for platinum in the reference layer of perpendicular magnetic memories maintains the same magnetic properties and thermal stability and reduces the environmental impact.

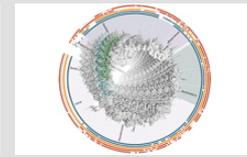
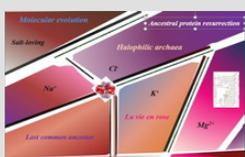
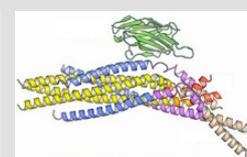
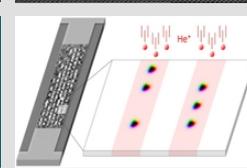
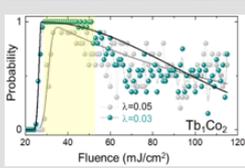
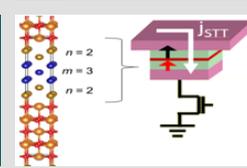
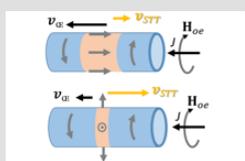
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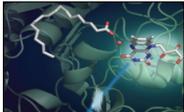
Sustainable Materials and Technologies, 2021

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