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Inserting underlying reduced graphene oxide (rGO) into Co aims to regulate the chemical integrity and catalytic ability of the Co upper layer for hydrogen evolution reaction (HER) as a green-hydrogen goal. Principally, an operando mass spectrometer indicates 3.8 times more considerable hydrogen generation in Co / rGO than in Co. The spectroscopical approaches, ...

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He, Y. Wang, A. Rai, D. G. Cahill, W. Windl, J. P. Heremans, and J. E. Goldberger, Highly efficient transverse thermoelectric devices with Re₄Si₇ crystals, Energy ...

1 Institute of Energy Technologies, IET-3: Theory and Computation of Energy Materials, Forschungszentrum Jülich GmbH, 52425 Jülich, Germany; 2 Theory of Electrocatalytic Interfaces, Faculty of Georesources and Materials Engineering, RWTH Aachen University, Aachen 52062, Germany; 3 Jülich Aachen Research Alliance JARA Energy & Center for ...

1 Institute of Energy and Climate Research (IEK-9), Forschungszentrum Jülich, Jülich 52425, Germany; 2 Chair for Theoretical Chemistry and Catalysis Research Center, Technical University of Munich, Garching 85747, Germany; 3 Fritz-Haber-Institut der Max-Planck-Gesellschaft, Berlin 14195, Germany; 4 Heinz Maier-Leibnitz Zentrum (MLZ), Technische ...

G. Kresse and J. Furthmüller, Efficiency of ab-initio total energy calculations for metals and semiconductors using a plane-wave basis set, *Comput. Mater. Sci.* 6, 15 (1996). G. Kresse and J. Furthmüller, Efficient iterative schemes for ab initio total-energy calculations using a plane-wave basis set, *Phys. Rev. B* 54, 11169 (1996).

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1 Institute of Energy Security and Environmental Safety, Center for Energy Research, P.O. Box 49, Budapest H-1525, Hungary; 2 Institute of Technical Physics and Materials Science, Center for Energy Research, P.O. Box 49, Budapest H-1525, Hungary; 3 Faculty of Natural Sciences, Chemnitz University of Technology, Straße der Nationen 62, ...

Layered perovskites are attractive for optoelectronic applications but are impacted by relatively low charge carrier mobilities. Here, the authors provide insight into the atomic-scale origins of the carrier mobilities using ab initio transport methodologies and symmetry analysis of the electron-phonon interactions.

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The chalcogenide perovskite BaZrS_3 has attracted much attention as a promising solar absorber for thin-film photovoltaics. Here we use first-principles calculations to evaluate its carrier transport and defect properties. We find that BaZrS_3 has a phonon-limited electron mobility of $37 \text{ cm}^2 / \text{V s}$, which is comparable to that in halide perovskites, but lower ...

PRX Energy 3, 031001 (2024) - Published 5 August, 2024 Using p-type transparent conductors for next-generation photovoltaics as a case study, this Perspective describes common pitfalls and potential solutions on the path from computational prediction of a new material to its integration in a commercial device.

In the pursuit of advancing particle physics and gaining deeper insights into the Higgs boson, proposals for electron-positron colliders are being examined. This Perspective takes a closer look at one such collider, the Cool Copper Collider, and introduces strategies aimed at minimizing its carbon footprint, while also conducting a thoughtful comparison with other Higgs ...

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PRX ENERGY 3, 043006 (2024) Enhanced Efficiency of Latent Heat Energy Storage by Inclination Rui Yang,^{1,2,*} Christopher J. Howland,^{1,3} Hao-Ran Liu,⁴ Roberto Verzicco,^{1,5,6} and Detlef Lohse ^{1,7,+} ¹Physics of Fluids Group and Max Planck Center for Complex Fluid Dynamics, and J. M. Burgers Centre for Fluid Dynamics, University of Twente, ...



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