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Featured papers from the first issue

The *JPhys Energy*[™] Editorial Board and publishing team are delighted to present our first published content. Our vision is to support the flow of knowledge across emerging and existing communities in physics, chemistry, engineering and related fields. The selection of papers below gives you a flavour of the journal's scope, and our commitment to publishing high-impact papers on the most significant and exciting scientific developments in energy research.

All papers are open access and can be accessed at iopscience.org/jphysenergy, or by entering the DOIs listed below into your internet browser.

The driving power of the electron

Mario Pagliaro and Francesco Meneguzzo

doi.org/10.1088/2515-7655/aacd9f

Layered lithium niobium (III) oxide – LiNbO₂ as a visible-light-driven photocatalyst for H₂ evolution

John Irvine, Xiaoxiang Xu, Gang Liu and Shuang Ni

doi.org/10.1088/2515-7655/aad4be

Quick-start guide for first-principles modelling of semiconductor interfaces

Aron Walsh, Ji-Sang Park, Young-Kwang Jung and Keith Butler

doi.org/10.1088/2515-7655/aad928

2D hybrid interlayer of electrochemically exfoliated graphene and Co(OH)₂ nanosheet as a bi-functionalized polysulfide barrier for high-performance lithium-sulfur batteries

Zhong-Shuai Wu, Haodong Shi, Yanfeng Dong, Feng Zhou and Jian Chen

doi.org/10.1088/2515-7655/aadef6

Mechanistic study of the hydrodeoxygenation of lignin-derived oxygenates on a CoPt bimetallic catalyst: reaction of anisole on Co-modified Pt(111)

John Vohs and Daming Shi

doi.org/10.1088/2515-7655/aadf55

Perovskite solar cells based on polyaniline derivatives as hole transport materials

Ana Nogueira, Adriano Marques, Rodrigo Szostak and Paulo Marchezi

doi.org/10.1088/2515-7639/aae8ed

Hydrophilic tannic acid-modified WS₂ nanosheets for enhanced polysulfide conversion in aqueous media

Yuheng Tian, Kuang-Hsu Wu, Xin Tan, Qingcong Zeng, Rose Amal and Dawei Wang

doi.org/10.1088/2515-7639/aaead4

Observation of stimulated emission from rhodamine 6G-polymer aggregate adsorbed at foam interfaces

Ketan Pancholi, Peter K J Robertson, Paul Okpozo, Neil S Beattie and Huo Dehong

doi.org/10.1088/2515-7655/aaec3d

FORTHCOMING PAPERS

Understanding macroscale functionality of metal halide perovskites in terms of nanoscale heterogeneities

Tze-Bin Song, Ian D Sharp, and Carolin M Sutter-Fella

Hydrogen/manganese hybrid redox flow battery

Javier Rubio-Garcia, Anthony Kucernak, Dong Zhao, Danlei Li, Kieran Fahy, Vladimir Yufit, Nigel Brandon and Miguel Gomez-Gonzalez

FORTHCOMING TOPICAL REVIEW

Advances in modelling and simulation of halide perovskites for solar cell applications

Chol-Jun Yu



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