

What is Li Xiaolei doing now?

Here,for the first time,we report a lead-free,highly stable C... li Xiaolei currently works at Xi'an Jiaotong University. li does research in Materials Engineering. Their current project is 'Perovskite solar cells'.

Who is Xiao Li?

Xiao Li (S'16) received the B.S. degree from Harbin Institute of Technology,Harbin,China,in 2012,and the Ph.D. degree from the Department of Electrical and Computer Engineering,Texas A&M University,College Station,TX,USA,in 2017,all in electrical engineering. He is a Senior Applications Engineer with Intersil Corporation.

Do perovskite solar cells employ organic charge-transport layers?

Perovskite solar cells employing organic charge-transport layers. Nat Photonics, 2014, 8: 128-132 Docampo P, Ball JM, Darwich M, Eperon GE, Snaith HJ. Efficient organometal trihalide perovskite planar-heterojunction solar cells on flexible polymer substrates.

What is $\text{TiO}_2/\text{CH}_3\text{NH}_3\text{PbI}_3$ perovskite solar cells?

Mesoscopic $\text{TiO}_2/\text{CH}_3\text{NH}_3\text{PbI}_3$ perovskite solar cells with new hole-transporting materials containing butadiene derivatives. Chem Commun, 2014, 50: 6931-6934 Zhang H, Shi YT, Yan F, Wang L, Wang K, Xing YJ, Dong QS, Ma TL. A dual functional additive for the HTM layer in perovskite solar cells. Chem Commun, 2014, 50: 5020-5022

Can guanidinium cation be used in solar cells?

[...]Guanidinium (GA) has been widely used as an additive in solar cells for enhanced performance. However,the size of the guanidinium cation is too large to be incorporated in the cage of the perovskite structure.

Can indoor organic photovoltaics power the Internet of Things (IoT)?

Indoor organic photovoltaics (IOPVs) are one of promising candidatesfor transferring artificial illumination to power the Internet of Things (IoT). However,their power conversion efficiencies (PCE) are limited by the fact that only a few efficient non-fullerene acceptors are available for IOPVs.

1 ??· Due to photovoltaic (PV) power generation depending on the environment, its output power is volatile, and effectively dealing with its power fluctuation has become a key concern. ...

PDF | On Jan 1, 2017, Xiao-xia Li published Design and implementation of the system of the electric vehicle photovoltaic charging | Find, read and cite all the research you need on ...

To further improve the efficiency of photovoltaic energy utilization and reduce the dependence of electric

vehicles on the grid, researchers have proposed the concept of ...

As a new member of thin-film solar cells, the perovskite solar cells have inspired a new research hot in new photoelectric materials and devices, and have given a new energy to ...

Request PDF | On Sep 1, 2018, Huafeng Xiao and others published Soft-Switching Techniques for Transformerless Photovoltaic Grid-Connected Inverters | Find, read and cite all the research ...

This study provides review of grid-tied architectures used in photovoltaic (PV) power systems, classified by the granularity level at which maximum power point tracking (MPPT) is applied. ... Weidong Xiao. ...

Xiao (Sean) Li Operation flexibility of hydropower stations and regulation ability of reservoirs can complement intermittent wind and photovoltaic power to form a stable wind-solar-hydro ...

o Equipment aging: external high temperatures cause device aging or performance degradation; the performance of photovoltaic modules is inconsistent, causing Hot Spots and accelerating ...

All-perovskite tandem solar cells offer a promising avenue to go beyond the efficiency limit of single-junction devices. Their efficiencies have been increasing rapidly in the past few years; however, their commercial viability is ...

A photovoltaic-thermoelectric hybrid (PV-TEH) system with intelligent thermal management based on the dual functions of thermoelectrics (TEs) is proposed to improve the conversion efficiency ...

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