

Extracting electricity directly from ubiquitous moisture is a promising green power generation technology. However, moisture-involved electricity generation is limited by discontinuity and unscalability. As discussed by Wang et al., emerging self-sustained moisture-involved electricity generation (SMIEG) may present a new strategy for delivering continuous ...

China has abundant offshore wind energy resources with more than 6000 islands and a mainland coastline of totally 1.8 × 10<sup>4</sup> km long. The available sea area for offshore wind generation is 3 × 10<sup>6</sup> km<sup>2</sup>, rendering the exploitation capacity to reach 758 GW, which is about 3 times that of onshore wind energy resources. Therefore, China has tremendous natural ...

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Ag<sub>2</sub>Se-based flexible thermoelectric devices are fabricated by inkjet printing technology, which demonstrate exceptional power generation performance owing to unique patterning capability and high ...

The main objective of this paper is three-fold. First, to provide an overview of the current status of the power electronics technology, one of the key actors in the upcoming smart grid paradigm enabling maximum power throughputs and near-instantaneous control of voltages and currents in all links of the power system chain. Second, to provide a bridge between the ...

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The energy density and power density can reach as high as 33.8 Wh kg<sup>-1</sup>; and 5000 W kg<sup>-1</sup>; respectively even in the high-voltage region of 0-2 V. The asymmetric supercapacitor exhibits 91% ...

With the development of integration technology (e.g., mini-bulk, Si-based processes, MEMS and printing) in recent decades [2], many breakthroughs have been made in the field of portable electronic products, such as wearable electronics, integrated circuit (IC), smart clothing, implantable medical devices and so on [[3], [4], [5]]. Typically, the power source ...

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# Lifeng Technology Power Generation Device Manufacturer

Environment-adaptive power generation can play an important role in next-generation energy conversion. Herein, we propose a moisture adsorption-desorption power generator (MADG) based on porous ...

Lifeng Wang's 29 research works with 840 citations and 1,141 reads, including: Multi-Scale Structure Engineering of ZnSnO<sub>3</sub> for Ultra-Long-Life Aqueous Zinc-Metal Batteries

The power generation performance of the MEG part of mp-SC For the MEG part of mp-SC, polydiallyl dimethyl ammonium chloride (PDDA) and polystyrene sulfonic acid (PSS) bilayer polyelectrolytes film ...

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