Lu an Group s wind-deficient oxidation power generation

Electrochemical water splitting involving the generation of H 2 using abundant renewable energy and water is practically promising for large-scale generation at an affordable cost.

PV, wind turbine (WT), and biomass energy as hybrid power sources for hydrogen generation using water electrolysis are conducted. The study investigates a wide ...

Imagine if we could capture those wisps of methane from mine vents... Well, Shanxi Lu"an Group"s 3 billion RMB demonstration project does exactly that . Their system reportedly destroys 95% of ...

In this paper, the principle of the integrated generation for offshore wind power and ocean wave energy is proposed, which areconverted both through hydraulic energy. ...

In this study, an intrinsically safe QSE synthesized by in situ polymerizing trifluoroethyl acrylate (TFEA) in high flash point tetraglyme (G4)-based electrolyte is developed.

Small dataset is insufficient to produce an accurate prediction model. This paper will review an artificial data generation approach as one of the solution to solve the small dataset problem.

Abstract Lithium metal batteries (LMBs) are promising for next-generation high-energy-density batteries but suffer from severe interface instability on reactive Li metal, resulting in poor ...

Prof. Lu focuses on the research areas of thermochemical conversion of biomass to produce fuels and chemicals, and has published over 100 SCI papers. He has been granted more than 60 invention ...

The objective is to quantify the influence of a thinned shell and a hydrated shell on power generation potential resulting from aluminum oxidation. The goal is to engineer metal particles for ...

Herein, we propose a new method to control the electrocatalytic behavior of supported metal nanoparticles by dispersing single metal atoms on an O-doped graphene. Ideal atomic metal ...

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