

Accepted Manuscript

Performance analysis of a solar photochemical photovoltaic hybrid system for decolorization of Acid Red 26 (AR 26)

Lingyun Cui, Li Zhu, Qunwu Huang, Yiping Wang, Yanchao Jin, Yong Sun, Yong Cui, Miao Chen, Jiangyang Fan



PII: S0360-5442(17)30399-7
DOI: 10.1016/j.energy.2017.03.033
Reference: EGY 10500
To appear in: *Energy*
Received Date: 26 December 2016
Revised Date: 13 February 2017
Accepted Date: 08 March 2017

Please cite this article as: Lingyun Cui, Li Zhu, Qunwu Huang, Yiping Wang, Yanchao Jin, Yong Sun, Yong Cui, Miao Chen, Jiangyang Fan, Performance analysis of a solar photochemical photovoltaic hybrid system for decolorization of Acid Red 26 (AR 26), *Energy* (2017), doi: 10.1016/j.energy.2017.03.033

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights:

1. The hybrid system combining homogenous photochemical with photovoltaics was firstly performed.
2. Solar/ $\text{K}_2\text{S}_2\text{O}_8$ and solar/ H_2O_2 is comparative analysis in the decolorization of AR 26.
3. $\text{K}_2\text{S}_2\text{O}_8$ can be activated by heat and irradiation simultaneously in the hybrid system.
4. The PV panel of the hybrid system could work under lower temperature.
5. Solar spectrum could be made full use for power generation and water purification.

Download English Version:

<https://daneshyari.com/en/article/5476803>

Download Persian Version:

<https://daneshyari.com/article/5476803>

[Daneshyari.com](https://daneshyari.com)