



## Reviewer Invitation for HE-D-20-03371

1 message

**Suleyman Allakhverdiev** <eesserver@eesmail.elsevier.com>  
Reply-to: Suleyman Allakhverdiev <suleyman.allakhverdiev@gmail.com>  
To: c.dhanas@gmail.com, c.dhans@yahoo.co.in, dhans@velsuniv.org

Mon, Jun 15, 2020 at 12:13 AM

Manuscript Number: HE-D-20-03371  
Title: Photo-assisted splitting of Water into Hydrogen using Visible-Light activated Silver Doped g-C<sub>3</sub>N<sub>4</sub> & CNTs Hybrids  
Article type: Full Length Article  
Submitted to: International Journal of Hydrogen Energy

Dear Dr. DHANASEKARAN,

I would like to ask your assistance providing a referee review of the referenced paper, which is being considered for publication in the International Journal of Hydrogen Energy.

If you accept this invitation to review, please refer to the "Elsevier Reviewer Guidelines" located at: <http://www.elsevier.com/wps/find/reviewershome.reviewers/reviewersguidelines> for specific guidance on reviewing papers for the IJHE.

Should you be unable to review the paper, I will be very grateful if you could send me the name and email address of a colleague whom you could recommend.

If you are willing to review this manuscript, please click on the link below:  
<https://ees.elsevier.com/he/l.asp?i=1078696&l=TNQZE7PM>

If you are unable, please click on the link below. We would appreciate receiving suggestions for alternative reviewers:  
<https://ees.elsevier.com/he/l.asp?i=1078695&l=U3Q3KKMU>

Alternatively, you may register your response by accessing the Elsevier Editorial System for International Journal of Hydrogen Energy as a REVIEWER using the login credentials below:

<https://ees.elsevier.com/he/>

Your username is: [c.dhanas@gmail.com](mailto:c.dhanas@gmail.com)

If you need to retrieve password details, please go to: [http://ees.elsevier.com/he/automail\\_query.asp](http://ees.elsevier.com/he/automail_query.asp)

1. Click [Reviewer Login]  
This takes you to the Reviewer Main Menu.
2. Click [New Reviewer Invitations]
3. Click either [Agree to Review] or [Decline to Review]

As a reviewer you are entitled to complimentary access to Scopus and ScienceDirect for 30 days. Full instructions and details will be provided upon accepting this invitation to review.

In addition to accessing our subscriber content, you can also use our Open Access content. Read more about Open Access here: <http://www.elsevier.com/openaccess>

Please also note that authors have been invited to convert their supplementary material into a Data in Brief article (a data description article). You may notice this change alongside the revised manuscript. You do not need to review this, but may need to look at the files in order to confirm that any supporting information you requested is present there.

With best regards and many thanks,

Suleyman I. Allakhverdiev, (Ph.D., Dr.Sci.)  
Subject Editor  
International Journal of Hydrogen Energy

**ABSTRACT:**

Highly efficient, very cheap water splitting is achieved which catalyzed H<sub>2</sub>O splitting into Hydrogen. Ag/C<sub>3</sub>N<sub>4</sub> was used to harvest visible-light, incorporation of CNTs in Ag/C<sub>3</sub>N<sub>4</sub> help to facilitate charge separation for efficient photocatalysis. Excellent results, multiple trials, maximum photoactivity was observed when Ag nanoparticles were decorated on g-C<sub>3</sub>N<sub>4</sub>/CNTs matrix (Ag/g-C<sub>3</sub>N<sub>4</sub>) possibly due to Plasmon resonance. Ag/C<sub>3</sub>N<sub>4</sub> were chemically immobilized into CNTs that boosted charge transfer ability, topography and catalytic properties of Ag/C<sub>3</sub>N<sub>4</sub>, consequently generated very pure and significant H<sub>2</sub>. Among several tested ratios (wt. %), 1.82 (Ag/C<sub>3</sub>N<sub>4</sub>) and 2.00 (and Ag/C<sub>3</sub>N<sub>4</sub>/CNTs) were found to be highly efficient that harvested maximum visible-light and produced H<sub>2</sub> @1.48 mmol h<sup>-1</sup> and 1.78 mmol h<sup>-1</sup>. We witnessed distinctive role of CNTs as an electron collector and carrier to separate photogenerated electron/hole pairs to facilitate photocatalysis for H<sub>2</sub> generation together with possible utility of Ag and CNTs doped materials with regard to energy transformation.

\*\*\*\*\*

\* For further assistance, please visit our customer support site at: <http://service.elsevier.com/app/home/supporthub/publishing/>

Here you can search for solutions on a range of topics, find answers to frequently asked questions and learn more about EES via interactive tutorials. You will also find our 24/7 support contact details should you need any further assistance from one of our customer support representatives.

\* Please note: Reviews are subject to a confidentiality policy,  
[http://service.elsevier.com/app/answers/detail/a\\_id/14156/supporthub/publishing/](http://service.elsevier.com/app/answers/detail/a_id/14156/supporthub/publishing/)