# **Session 3: Publication Ethics**

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For CEES and FKE, Post Graduates Students. 28 and 29 March 2017





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#### **Research Misconduct**

As defined by Office of Research Integrity, US Dept. of Health and Human Services

Research misconduct means fabrication, falsification and plagiarism in proposing, performing, or reviewing or reporting research results

Honest error or difference in opinion is not included in this definition

**Known as FFP** 



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Imprtant Aspects of Publishing in High Impac Journals.

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#### **Research Misconduct**

#### **Fabrication:**

making up data/results which does not exist and recording them

#### **Falsification:**

Manipulating research material, processes, result to achieve pre-planned outcomes

Omitting data such that the results are not accurately represented.

#### Plagiarism:

Using other person(s) material, ideas, sentences, paragraph, pictures etc. without appropriately acknowledging them.



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### **Data Fabrication/Falsification**

"Trimming": altering data

"Cooking": selective reporting of data

❖ "Forging": making up the data



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# **Consequences**

- Manipulate data with intention to that deceive others (cheating)
- Failure to honestly fulfil scientific obligations.
- Mislead their colleagues
- Potentially impede progress in their field or research.
- Undermine their own authority and trustworthiness as researchers (lose credibility).



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In Research and Publication,
FFP is a CRIME!

# High profile case

Disgraced South Korean scientist guilty of fraud over faked stem cell research  $\,$ 

A South Korean scientist who falsely claimed to have achieved major breakthroughs in stem cell research has been found guilty of fraud.



The Telegraph 26 Oct 2009

Prof Hwang Woo-suk

6:27AM GMT 26 Oct 200

Hwang Woo-suk, 56, once a scientist with rock-star like status for bringing South Korea to the forefront of stem cell studies, had also been on trial on charges of misusing state funds and violating bioethics laws.

"He was guilty of fabrication," the Seoul court said in a verdict in the trial that stretched more than three years and included painstaking details about the scientific work Hwang and his team had performed at Seoul National University.



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# **Plagiarism and Self-Plagiarism**

#### **DEFINITION**

- Plagiarism: using the ideas or words of another person without giving appropriate credit
- Self-Plagiarism: The copying or reuse of one's own research



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# **Plagiarism**

- ♦All sources should be disclosed through appropriate citation or quotation conventions.
- ♦If a large amount of other people's written or illustrative material is to be used, permission must be sought.



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# To Avoid Self Plagiarism

- Journals not interested to reproduce published material (self plagiarism) as it consumes valuable space.
- Sentences need to be "paraphrased"
- Use quotation mark for short quotes, and cite the original version
- Permission must be obtained to reproduce large objects, e.g. pictures, tables etc.



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# **How Journals Detect Plagiarism**

- Similarity check by Journal Admin before review process using software, for example turnitin and crosscheck.
- >Information from reviewers or other editors
- ➤ Withdrawal of a paper from publication or review process (by authors)



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## Consequences

- Papers are retracted from journal
- Authors banned from publication in the journal (and possibly other journals too).
- Authors are placed on a "watch list".

  Future submissions will be subjected to careful examination



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#### **Other Ethical Issues**

- Authorships
- Multiple submissions
- Human/Animal violations
- Conflict of Interest



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# **Examples of retracted papers**

RETRACTED: Fluorescence lifetime increase by introduction of F<sup>-</sup> ions in ytterbium-doped TeO<sub>2</sub>-based glasses

Journal of Alloys and Compounds, Volume 393, Issues 1-2, 3 May 2005, Page 270-282 Guonian Wang, Shiyur, Dai, Junjie Zhang, Shiqing Xu and Zhonghong Jiang

RETRACTED: Effect of F— ions on spectroscopic properties of Yb³+-doped zinc-tellurite glasses • Journal of Physics and Chemistry of Solids, Volume 66, Issue 6, June 2005, Pages 1107-1111
Guonian Wang, Junjie Zhang, Shixun Dai, Jianhu Yang and Zhonghong Jiang

From Science@Direct (Elsevier)

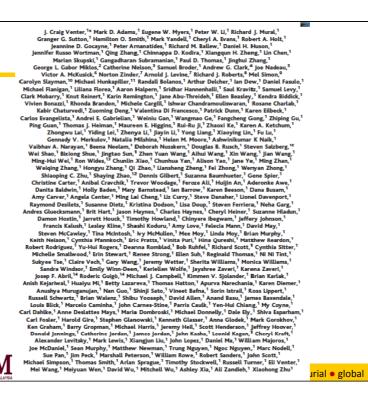


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# **Sequence of Authorship**

## An Improved Particle Swarm Optimization (PSO)-Based MPPT for PV With Reduced Steady-State Oscillation

Kashif Ishaque, Zainal Salam, Member, IEEE, Muhammad Amjad, and Saad Mekhilef, Member, IEEE

First Author: Doing most of the writing/work

Second Author: Supervisor/Second most contributor

Manuscript received September 14, 2011; revised September 21, 2011; accepted January 8, 2012. Date of current version April 20, 2012. Recom-

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Color versions of one or more of the figures in this paper are available online thtp://ieeexplore.ieee.org.
Digital Object Identifier 10.1109/TPEL.2012.2185713



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## Who qualify as Authors?

"Authorship credit should be based only on

- 1) substantial contributions to conception and design, or acquisition of data, or analysis and interpretation of data;
- 2) drafting the article or revising it critically for important intellectual content; and
- 3) final approval of the version to be published.

Conditions 1, 2, and 3 must all be met. "



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# **Duplicate Submissions**

- Most journals consider simultaneously submitted manuscripts is not acceptable
  - May cause disagreement over right to publish (among publishers)
  - Unnecessary duplication of peer review and editing
- However, it is acceptable if
  - Paper has been rejected by another journal
  - the paper is withdrawn



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