

Session 6: Publication Ethics

Prof. Dr. Zainal Salam,
Centre of Electrical
Energy Systems,
UTM Johor Bahru,
Malaysia

**Workshop on
Publishing in High Impact
Journals**

Ecole Nationale Polytechnique
Algiers, Algeria
Nov 2018



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

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.

Data Fabrication/Falsification

- ❖ “*Trimming*”: altering data
- ❖ “*Cooking*”: selective reporting of data
- ❖ “*Forging*”: making up the data

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**).



**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.



Prof Hwang Woo-suk

The Telegraph 26 Oct 2009

6:27AM GMT 26 Oct 2009

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.

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

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.

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.

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)

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

Examples of retracted papers

RETRACTED: Fluorescence lifetime increase by introduction of F^- ions in ytterbium-doped TeO_2 -based glasses

Journal of Alloys and Compounds, Volume 393, Issues 1-2, 3 May 2005, Pages 279-282

Guonian Wang, Shixun Dai, Junjie Zhang, Shiqing Xu and Zhonghong Jiang

RETRACTED: Effect of F^- ions on spectroscopic properties of Yb^{3+} -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)

High profile case



ScienceInsider

Breaking news and analysis from the world of science policy



July 28, 2009

Journal Editor Retracts Paper on Sperm Made From Stem Cells

The paper, published online by *Stem Cells and Development* on 8 July with **Karim Nayernia of Newcastle University in the United Kingdom** as the corresponding author, had already received some criticism from other experts; Dr Allan Pacey of the University of Sheffield in the United Kingdom, for example, was quoted by [The Independent](#) as saying: "As a sperm biologist of 20 years' experience, I am unconvinced from the data presented in this paper that the cells produced ... can be accurately called 'Spermatozoa.' "

The paper's problems soon got much worse. Graham Parker, editor-in-chief of *Stem Cells and Development*, told *ScienceInsider* that he received an email on 10 July from the editors of another journal, *Biology of Reproduction*, claiming that **two paragraphs from Nayernia paper's introduction were copied without attribution from a [2007 review article](#)** by Makoto Nagano of McGill University in Montreal, Canada, that was published in their journal.

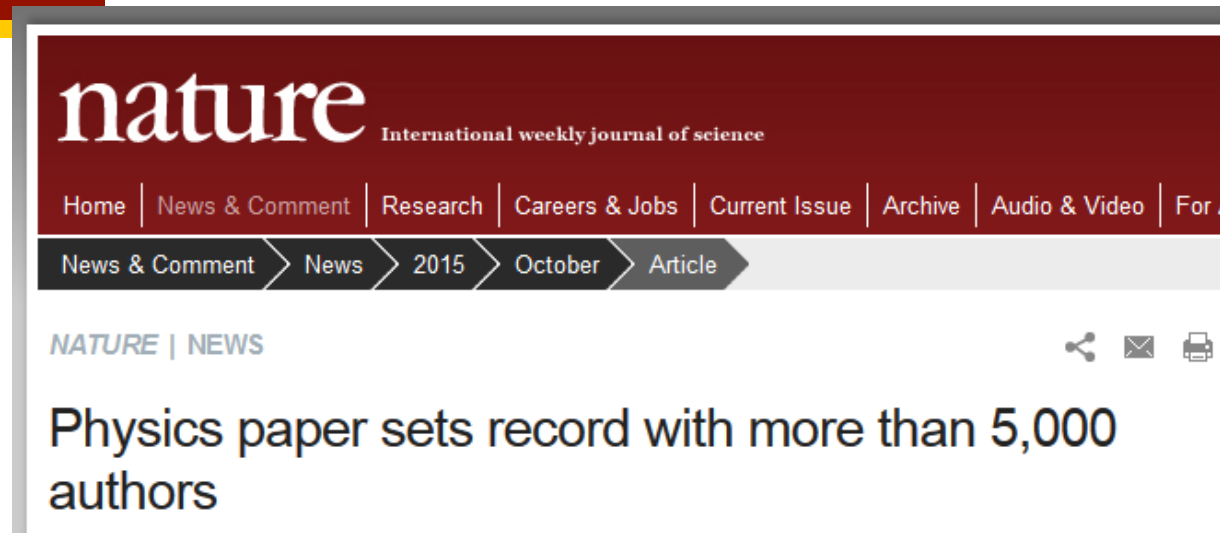
Parker says Nayernia told him the offending text was inserted by a postdoctoral fellow. But Parker says the explanation he received was not consistent with an innocent mistake. "Once I had established that the suggested reason for the text's inclusion was not being substantiated I decided to retract the paper" on 21 July, Parker says.



Other Ethical Issues

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

Authorships



A physics paper with 5,154 authors has — as far as anyone knows — broken the record for the largest number of contributors to a single research article.

Only the first nine pages in the 33-page article, published on 14 May in *Physical Review Letters*¹, describe the research itself — including references. The other 24 pages list the authors and their institutions.

J. Craig Venter,^{1*} Mark D. Adams,¹ Eugene W. Myers,¹ Peter W. Li,¹ Richard J. Mural,¹
 Granger G. Sutton,¹ Hamilton O. Smith,¹ Mark Yandell,¹ Cheryl A. Evans,¹ Robert A. Holt,¹
 Jeannine D. Gocayne,¹ Peter Arnanatides,¹ Richard M. Ballew,¹ Daniel H. Huson,¹
 Jennifer Russo Wortman,¹ Qing Zhang,¹ Chinnappa D. Kodira,¹ Xiangqun H. Zheng,¹ Lin Chen,¹
 Marian Skupski,¹ Gangadharan Subramanian,¹ Paul D. Thomas,¹ Jinghui Zhang,¹
 George L. Gabor Miklos,² Catherine Nelson,³ Samuel Broder,¹ Andrew G. Clark,⁴ Joe Nadeau,⁵
 Victor A. McKusick,⁶ Norton Zinder,⁷ Arnold J. Levine,⁷ Richard J. Roberts,⁸ Mel Simon,⁹
 Carolyn Slayman,¹⁰ Michael Hunkapiller,¹¹ Randall Bolanos,¹ Arthur Delcher,¹ Ian Dew,¹ Daniel Fasulo,¹
 Michael Flanigan,¹ Lilliana Florea,¹ Aaron Halpern,¹ Sridhar Hannenhalli,¹ Saul Kravitz,¹ Samuel Levy,¹
 Clark Mobarry,¹ Knut Reinert,¹ Karin Remington,¹ Jane Abu-Threideh,¹ Ellen Beasley,¹ Kendra Biddick,¹
 Vivien Bonazzi,¹ Rhonda Brandon,¹ Michele Cargill,¹ Ishwar Chandramouliswaran,¹ Rosane Charlab,¹
 Kabir Chaturvedi,¹ Zuoming Deng,¹ Valentina Di Francesco,¹ Patrick Dunn,¹ Karen Eilbeck,¹
 Carlos Evangelista,¹ Andrei E. Gabrielian,¹ Weiniu Gan,¹ Wangmao Ge,¹ Fangcheng Gong,¹ Zhiping Gu,¹
 Ping Guan,¹ Thomas J. Heiman,¹ Maureen E. Higgins,¹ Rui-Ru Ji,¹ Zhaoxi Ke,¹ Karen A. Ketchum,¹
 Zhongwu Lai,¹ Yiding Lei,¹ Zhenya Li,¹ Jiayin Li,¹ Yong Liang,¹ Xiaoying Lin,¹ Fu Lu,¹
 Gennady V. Merkulov,¹ Natalia Milshina,¹ Helen M. Moore,¹ Ashwinikumar K Naik,¹
 Vaibhav A. Narayan,¹ Beena Neelam,¹ Deborah Nusskern,¹ Douglas B. Rusch,¹ Steven Salzberg,¹²
 Wei Shao,¹ Bixiong Shue,¹ Jingtao Sun,¹ Zhen Yuan Wang,¹ Aihui Wang,¹ Xin Wang,¹ Jian Wang,¹
 Ming-Hui Wei,¹ Ron Wides,¹³ Chunlin Xiao,¹ Chunhua Yan,¹ Alison Yao,¹ Jane Ye,¹ Ming Zhan,¹
 Weiqing Zhang,¹ Hongyu Zhang,¹ Qi Zhao,¹ Liansheng Zheng,¹ Fei Zhong,¹ Weryan Zhong,¹
 Shiaoqing C. Zhu,¹ Shaying Zhao,¹² Dennis Gilbert,¹ Suzanna Baumhueter,¹ Gene Spier,¹
 Christine Carter,¹ Anibal Cravchik,¹ Trevor Woodage,¹ Feroze Ali,¹ Huijin An,¹ Aderonke Awe,¹
 Danita Baldwin,¹ Holly Baden,¹ Mary Barnstead,¹ Ian Barrow,¹ Karen Beeson,¹ Dana Busam,¹
 Amy Carver,¹ Angela Center,¹ Ming Lai Cheng,¹ Liz Curry,¹ Steve Danaher,¹ Lionel Davenport,¹
 Raymond Desilets,¹ Susanne Dietz,¹ Kristina Dodson,¹ Lisa Doup,¹ Steven Ferriera,¹ Neha Garg,¹
 Andres Gluecksmann,¹ Brit Hart,¹ Jason Haynes,¹ Charles Haynes,¹ Cheryl Heiner,¹ Suzanne Hladun,¹
 Damon Hostin,¹ Jarrett Houck,¹ Timothy Howland,¹ Chinyere Ibegwam,¹ Jeffery Johnson,¹
 Francis Kalush,¹ Lesley Kline,¹ Shashi Koduru,¹ Amy Love,¹ Felecia Mann,¹ David May,¹
 Steven McCawley,¹ Tina McIntosh,¹ Ivy McMullen,¹ Mee Moy,¹ Linda Moy,¹ Brian Murphy,¹
 Keith Nelson,¹ Cynthia Pfannkoch,¹ Eric Pratts,¹ Vinita Puri,¹ Hina Qureshi,¹ Matthew Reardon,¹
 Robert Rodriguez,¹ Yu-Hui Rogers,¹ Deanna Romblad,¹ Bob Ruhfel,¹ Richard Scott,¹ Cynthia Sitter,¹
 Michelle Smallwood,¹ Erin Stewart,¹ Renee Strong,¹ Ellen Suh,¹ Reginald Thomas,¹ Ni Ni Tint,¹
 Sukyee Tse,¹ Claire Vech,¹ Gary Wang,¹ Jeremy Wetter,¹ Sherita Williams,¹ Monica Williams,¹
 Sandra Windsor,¹ Emily Winn-Deen,¹ Keriellen Wolfe,¹ Jayshree Zaveri,¹ Karena Zaveri,¹
 Josep F. Abril,¹⁴ Roderic Guigó,¹⁴ Michael J. Campbell,¹ Kimmen V. Sjolander,¹ Brian Karlak,¹
 Anish Kejarwal,¹ Huaiyu Mi,¹ Betty Lazareva,¹ Thomas Hatton,¹ Apurva Narechania,¹ Karen Diemer,¹
 Anushya Muruganujan,¹ Nan Guo,¹ Shinji Sato,¹ Vineet Bafna,¹ Sorin Istrail,¹ Ross Lippert,¹
 Russell Schwartz,¹ Brian Walenz,¹ Shibu Yooseph,¹ David Allen,¹ Anand Basu,¹ James Baxendale,¹
 Louis Blick,¹ Marcelo Caminha,¹ John Carnes-Stine,¹ Parris Caulk,¹ Yen-Hui Chiang,¹ My Coyne,¹
 Carl Dahlke,¹ Anne Deslattes Mays,¹ Maria Dombroski,¹ Michael Donnelly,¹ Dale Ely,¹ Shiva Esparham,¹
 Carl Fosler,¹ Harold Gire,¹ Stephen Glanowski,¹ Kenneth Glasser,¹ Anna Glodek,¹ Mark Gorokhov,¹
 Ken Graham,¹ Barry Gropman,¹ Michael Harris,¹ Jeremy Heil,¹ Scott Henderson,¹ Jeffrey Hoover,¹
 Donald Jennings,¹ Catherine Jordan,¹ James Jordan,¹ John Kasha,¹ Leonid Kagan,¹ Cheryl Kraft,¹
 Alexander Levitsky,¹ Mark Lewis,¹ Xiangjun Liu,¹ John Lopez,¹ Daniel Ma,¹ William Majoros,¹
 Joe McDaniel,¹ Sean Murphy,¹ Matthew Newman,¹ Trung Nguyen,¹ Ngoc Nguyen,¹ Marc Nodell,¹
 Sue Pan,¹ Jim Peck,¹ Marshall Peterson,¹ William Rowe,¹ Robert Sanders,¹ John Scott,¹
 Michael Simpson,¹ Thomas Smith,¹ Arlan Sprague,¹ Timothy Stockwell,¹ Russell Turner,¹ Eli Venter,¹
 Mei Wang,¹ Meiyuan Wen,¹ David Wu,¹ Mitchell Wu,¹ Ashley Xia,¹ Ali Zandieh,¹ Xiaohong Zhu¹

Sequence of Authorship

IEEE TRANSACTIONS ON POWER ELECTRONICS, VOL. 27, NO. 8, AUGUST 2012

3627

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. Recommended for publication by Associate Editor M. Liserre.

K. Ishaque was with the Universiti Teknologi Malaysia, Johor Bahru 81310, Malaysia. He is now with the Department of Electronics Engineering, Karachi Institute of Economics and Technology, Karachi 75190, Pakistan (e-mail: kashif.ishaque@pafkiet.edu.pk).

Z. Salam (corresponding author) and M. Amjad are with the Universiti Teknologi Malaysia, Johor Bahru 81310, Malaysia (e-mail: zainals@fke.utm.my; Muhammad.Amjad@iub.edu.pk).

S. Mekhilef is with the University of Malaya, Kuala Lumpur 50603, Malaysia (e-mail: saad@um.edu.my).

Color versions of one or more of the figures in this paper are available online at <http://ieeexplore.ieee.org>.

Digital Object Identifier 10.1109/TPEL.2012.2185713

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. “

Duplicate Submissions

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



**WISH YOU THE BEST IN YOUR
NEXT WRITING PROJECT!**

zainals@fke.utm.my

Thank you...

