

# Session 1: Motivations to Publish in High Impact Journals

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Centre of Electrical  
Energy Systems,  
UTM Johor Bahru,  
Malaysia

## **Workshop on Publishing in High Impact Journals**

Ecole Nationale Polytechnique  
Algiers, Algeria  
Nov 2018



# UTM at a glance





# UTM Main Campus – Johor Bahru





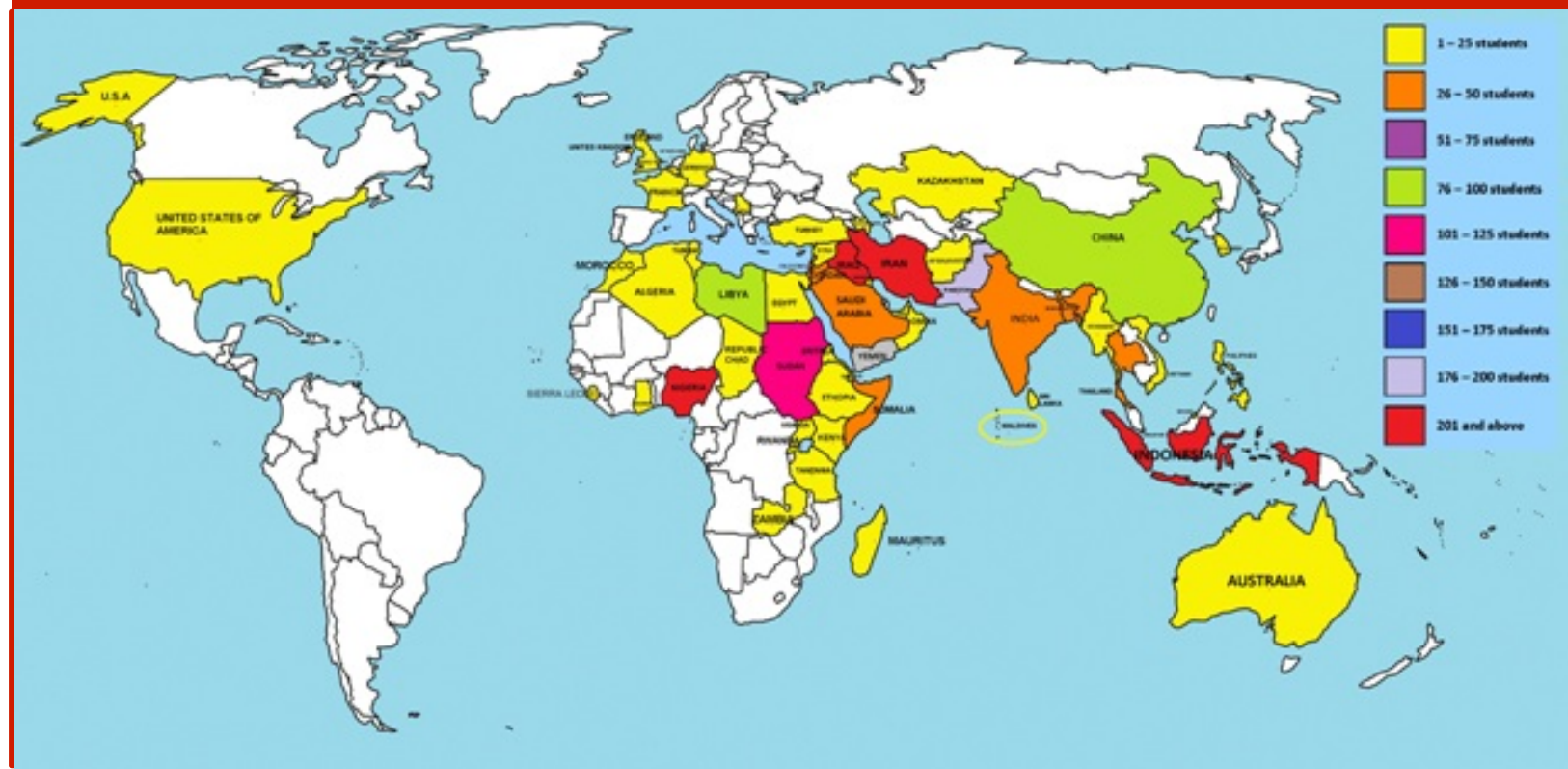
# UTM Campus– Kuala Lumpur Branch





# UTM International Students

International Students from more than 70 countries



# QS Ranking





# UTM

## GREEN & SUSTAINABLE CAMPUS



# About our workshop

## TODAY 5<sup>th</sup> November

1. Motivations to publish in high impact journals
2. Title, Abstract and Introduction Sections
3. Editorial Processes/ why papers are rejected?

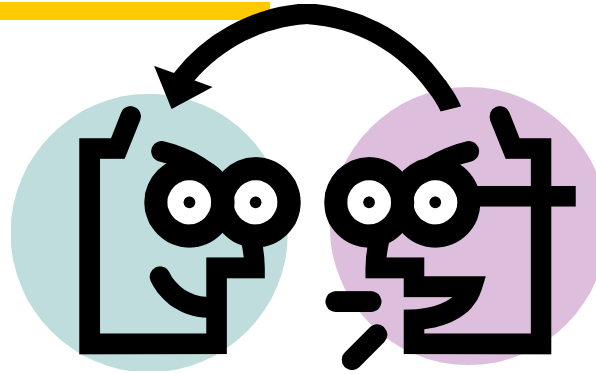
## WEDNESDAY 7<sup>th</sup> November

4. Methods, Results, Discussion and Conclusions Sections
5. Overview on Writing Review Papers
6. Ethics of Publications





# MOTIVATIONS TO PUBLISH IN HIGH IMPACT JOURNAL



The greatest ideas are (literally)  
worthless if you keep them to  
yourself





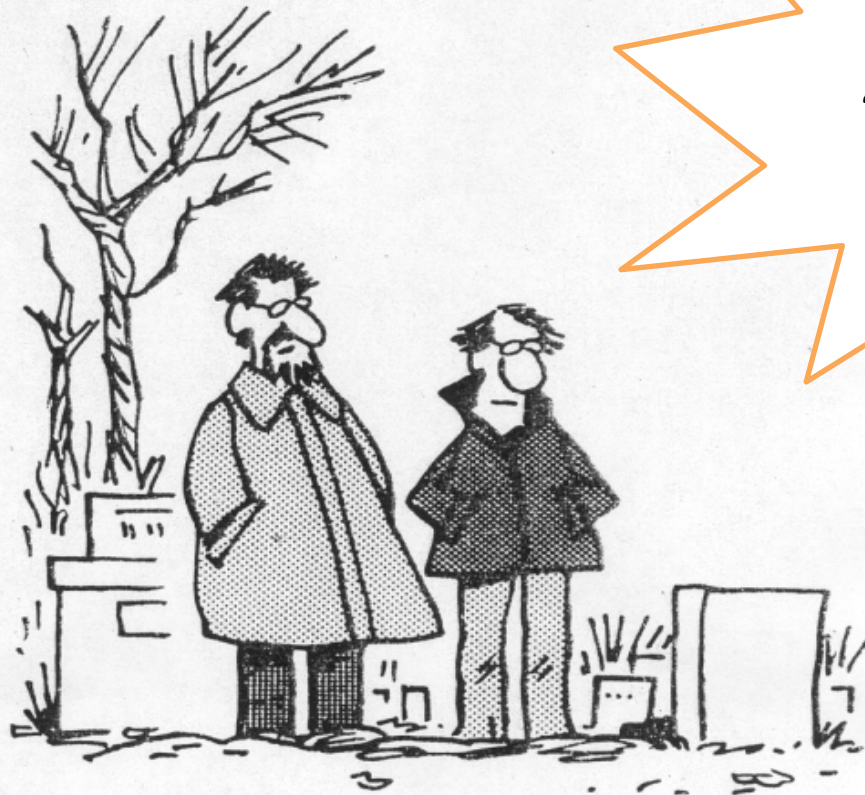
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If your work is good, why  
keep it secret?

If it was not published, the work  
is not complete

Great Islamic scholars published their  
work/knowledge.  
We benefited from them until today

# Berry's World



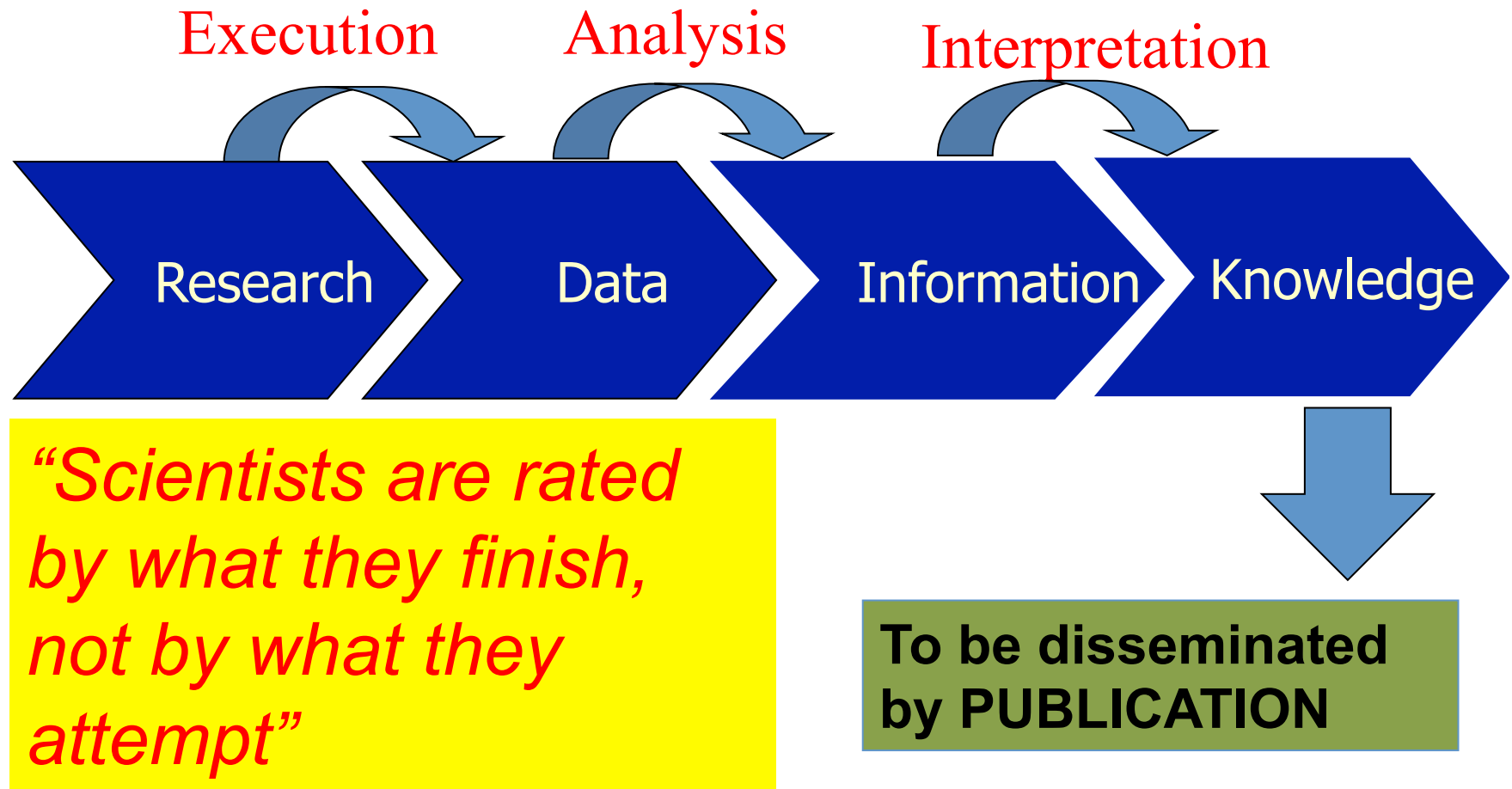
*Jim Berry*  
© 1992 by NEA, Inc.

*"He didn't publish, so he perished."*

"Publish or Perish"



# Steps of obtaining research output



# What is High Impact Journal?

- ✓ Journals that are being referred frequently by means of citations
- ✓ Information in it are accurate and reliable
- ✓ Content reviewed by “expert peers”.
- ✓ Examples:
  - ✓ IEEE Transactions,
  - ✓ Titles form Elsevier, Wiley, Pergamon Press, Nature, Science.



# Why publish in High Impact Journal?

- To get higher citation
  - The paper is very likely to be cited.
- Personal Satisfaction/esteem
  - Recognition as “expert”
  - Promotion/appraisal exercises
  - “Ticket” for mobility (especially if publish in *Nature, Science, IEEE Transactions*)
- Institutional
  - Visibility, University Ranking, RU

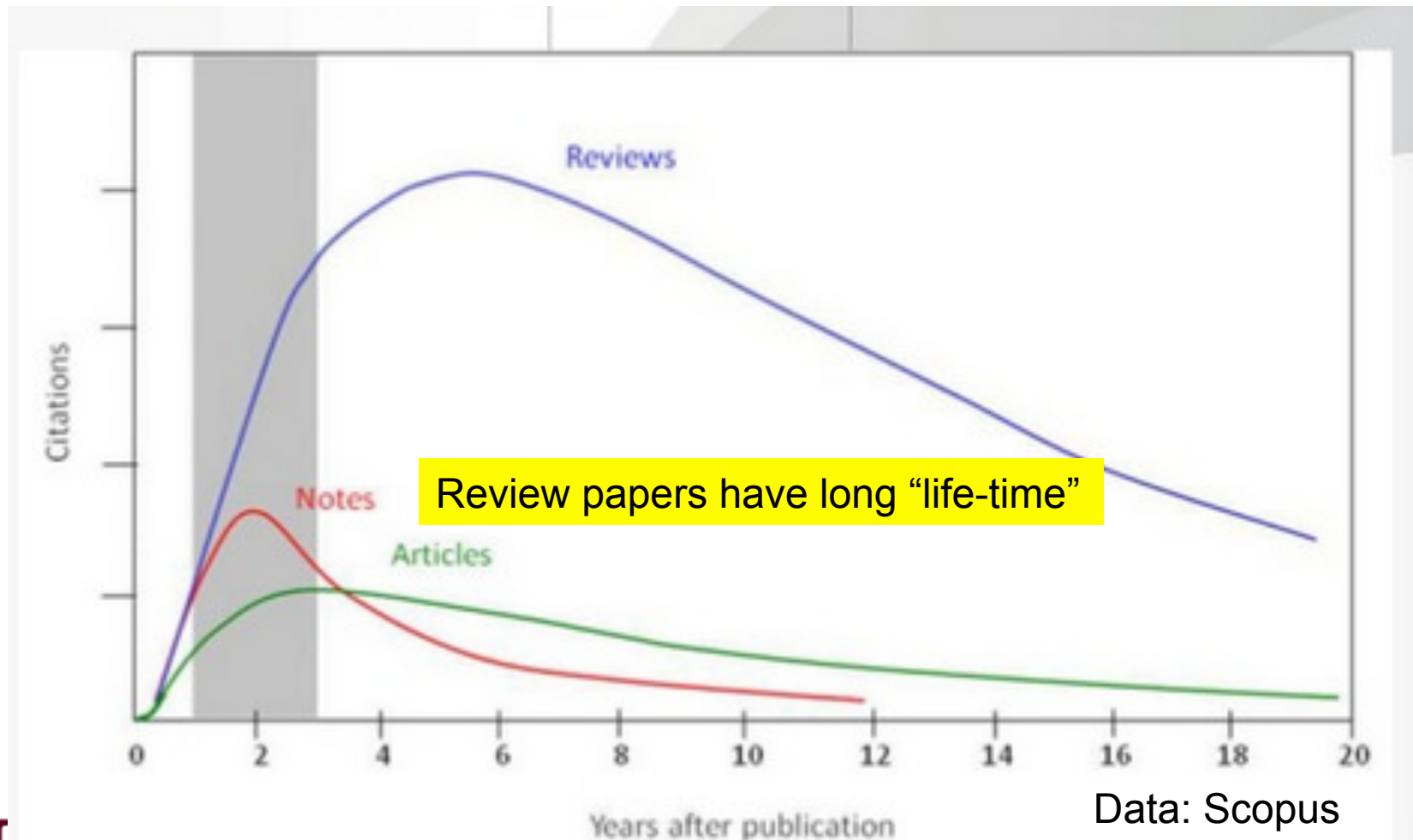
# Types of Manuscript

- **Original Research Article**
  - Content based on primary data from author's experiments, own work
  - Very Specific; Audience can be limited
- **Literature Review Article**
  - Compilation of others work on the same topic/ area
  - Quite broad; Lots of reference
- **Letter/Notes**
  - One to four pages, short communication
  - Original idea, but yet to be developed fully
  - Fast reviewing process



# Publication Benefits

✧ Review papers are Highly cited!



# Indexing Databases: Google Scholar

- Allows users to search for digital or physical copies of articles, whether online or in libraries.
- It **indexes** full-text journal articles, technical reports, preprints, thesis, books and other documents that “deemed to be scholarly”.
- Advantage: linked to Google, **Free!**
- Concerns: Lack of screening for quality, predatory journal, vulnerability to spam



## Dr. Zainal Salam

Professor of Power Electronics,  
Universiti Teknologi Malaysia

Power Electronics  
Energy  
Solar  
Photovoltaic

### GET MY OWN PROFILE

	All	Since 2013
Citations	6359	5806
h-index	36	36
i10-index	90	78

TITLE	CITED BY	YEAR
<a href="#">An improved particle swarm optimization (PSO)-based MPPT for PV with reduced steady-state oscillation</a> K Ishaque, Z Salam, M Amjad, S Mekhilef IEEE transactions on Power Electronics 27 (8), 3627-3638	499	2012
<a href="#">Simple, fast and accurate two-diode model for photovoltaic modules</a> K Ishaque, Z Salam, H Taheri Solar energy materials and solar cells 95 (2), 586-594	388	2011
<a href="#">A review of maximum power point tracking techniques of PV system for uniform insolation and partial shading condition</a> K Ishaque, Z Salam Renewable and Sustainable Energy Reviews 19, 475-488	328	2013
<a href="#">A deterministic particle swarm optimization maximum power point tracker for photovoltaic system under partial shading condition.</a> K Ishaque, Z Salam IEEE Trans. Industrial Electronics 60 (8), 3195-3206	307	2013



# Scopus

- ❖ Owned by **Elsevier**
- ❖ On-line subscription (**not free**)
- ❖ Covers 21,000 titles from 5,000 publishers
- ❖ Over 21,000 are peer review journals and conference proceedings
- ❖ Areas: scientific, medical, technical, arts, humanities, social science

## Web of Science (WoS)

- Indexing maintained by **Clarivate Analytics**
- **Not free**
- Consist of seven online databases
  - Conference Proc. Citation Index (160,000 titles)
  - Science Citation Index Expanded (8,500 journal)
  - Social Science Citation Index (3,000 journal)
  - Book Citation Index (60,000 editorial)
  - And others..

# Citations

- Definition: A formal, **explicit linkage** between papers that have particular points in common.
- If your paper is **cited**, it shows the **value of your research** in the eyes of others.
- It also reflects the **quality** of your work
- Nowadays, an important **indicator** for personal/institutional competitiveness



# Journal Impact Factor (IF)

- The annual IF is a ratio between citations and recent citable items published.
- A measure to indicate the **relative importance** of a journal within a specific subject category (field of research).
- Devised by the founder of *Institute of Scientific Information* (ISI)
- Calculated yearly, since 1975.
- Only for journals indexed in **Journal Citation Report (JCR)**
- **Many critics? But IF is till widely used as a “benchmark” of journal quality.**

# Impact Factor calculation

- **A**= number of articles published in 1990-91  
(2 years)
- **B**= Number of cites (in 1992) to articles published in 1990-91
- **Impact Factor for 1992**=  $B/A$
- Example:

In 1990 and 1991, Journal X published a total of 100 articles (**A**).  
In 1992, these 100 articles are cited 250 times (**B**).

$$\begin{aligned} \text{1992 impact factor of Journal X} &= B/A \\ &= 250/100 \\ &= 2.50 \end{aligned}$$

## 5-year Impact Factor

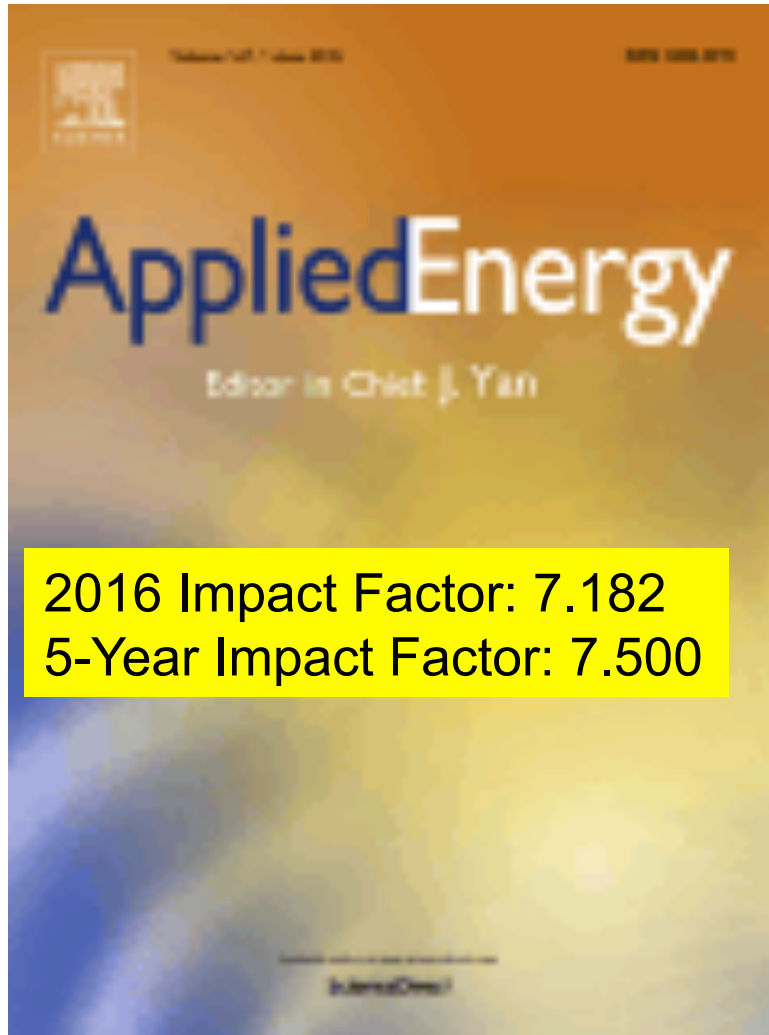
### Impact Factor:

The Impact Factor measures the average number of citations received in a particular year by papers published in the journal during the two preceding years.

### Five-Year Impact Factor:

To calculate the five year Impact Factor: citations are counted in the previous five years and divided by the source items published in the previous five years.

Measure of journal consistency and stability





## Journal Quartile (Q)

- **Within a subject category**, there are 100 journals having their impact factor compute by the **Journal Citation Reports (JCR)** published by *Clarivate Analytics*.
- The top 25 (25%) is considered as Q1, second 25 (next 25%) as Q2 and so on.
- **Note: A journal can be in different Q for different subject category (because it can be classified into several categories)**

# Example

## SIMULATION MODELLING PRACTICE AND THEORY

### Impact Factor

1.05      1.169

2013      5 year

*JCR® Category Rank in Category Quartile in Category*

COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS

70 of 102      Q3

COMPUTER SCIENCE, SOFTWARE ENGINEERING

49 of 105      Q2

Data from the 2013 edition of [Journal Citation Reports®](#)

### Publisher

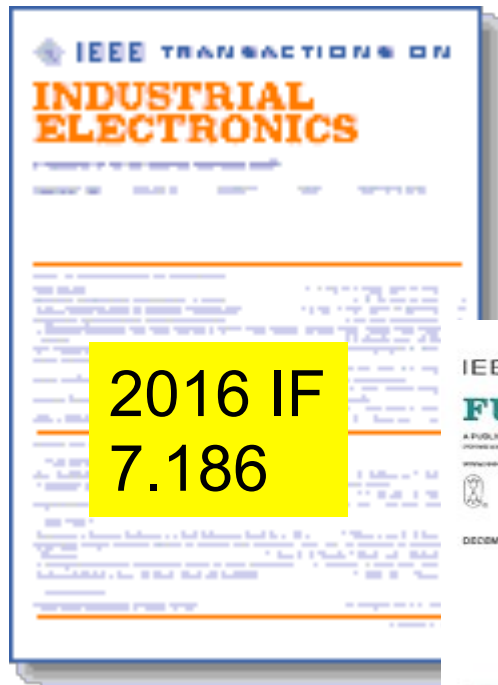
ELSEVIER SCIENCE BV, PO BOX 211, 1000 AE  
AMSTERDAM, NETHERLANDS

ISSN: 1569-190X

### Research Domain

Computer Science

# Examples of top 2016 Q1 journals



2016 IF  
7.186

## IEEE TRANSACTIONS ON FUZZY SYSTEMS

A PUBLICATION OF THE IEEE COMPUTATIONAL INTELLIGENCE SOCIETY  
FOUNDED BY MICHAEL M. GHALEM

www.ieee-cis.org/publications

DECEMBER 2015 VOLUME 13 NUMBER 6 IJFSEV (ISSN 1083-6702)

Articles

Unified Feedback Tracking Control of MIMO Systems Using a Fuzzy Observer and its Application to the Speed Control of a PM Synchronous Motor	J. An and S. Lee	725
Fuzzy Nonlinear Regression with Fuzzy Radial Basis Function Network	S. G. Kim and J. An	742
Design of a Multilevel Fuzzy Controller	Davidoford PSC for Large-Scale T. S.	751
Institution of Uncertain Fuzzy Time-Delayed Systems	Y. S. Kim and S. H. Lee	779
MF: A Search-Fuzzy Inference Method	Y. S. Kim and S. H. Lee	787
Fuzzy Rule Imprecision for Multidimensional Fuzzy Rule Imprecision	Y. S. Kim and S. H. Lee	799
A New Fuzzy Support Vector Machine	Y. S. Kim and S. H. Lee	809
Fuzzy Approximate Disturbance Observer	Y. S. Kim and S. H. Lee	831
Response	Y. S. Kim and S. H. Lee	832
A Probabilistic Fuzzy Logic System for	Y. S. Kim and S. H. Lee	845

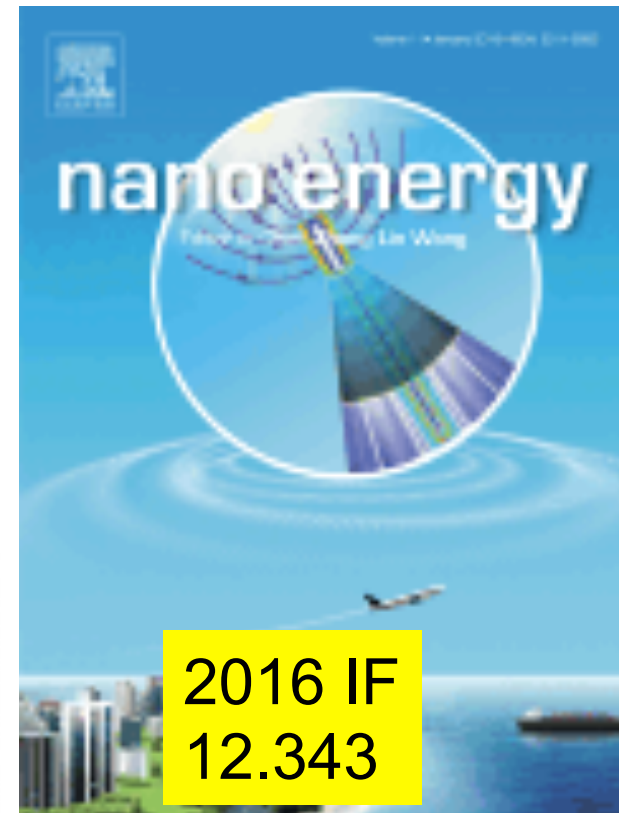
CONNECTIONS

Connection to "Fuzzy Rule Imprecision"	Y. S. Kim and S. H. Lee	860
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Page	Follows page	863
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2016 IF  
7.671



2016 IF  
12.343



# Specialized Review Journal

2016 Impact factor: 47.928

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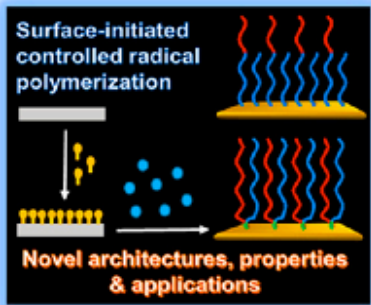
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**Surface-initiated controlled radical polymerization**



**Novel architectures, properties & applications**

Surface-Initiated Controlled Radical Polymerization: State-of-the-Art, Opportunities, and Challenges in Surface and Interface Engineering with Polymer Brushes

Justin O. Zoppe, Nariye Cavusoglu Ataman, Piotr Moczny, Jian Wang, John Moraes, and Harm-Anton Klok\*

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Editor-in-Chief:  
**Sharon Hammes-Schiffer**

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Current Issue View Articles ASAP

Total Citations	Impact Factor	Articles Published
148,154	37.369	261

2015 Journal Citation Reports® by Thomson Reuters, 2016



## *h-index*

- A measure to assess the cumulative publication **productivity and impact** of a researcher
- *h-index* can also be applied to the productivity and impact of a scholarly journal, department, institution or even a country!
- There are is *h-index* for Google Scholar, Scopus and WoS

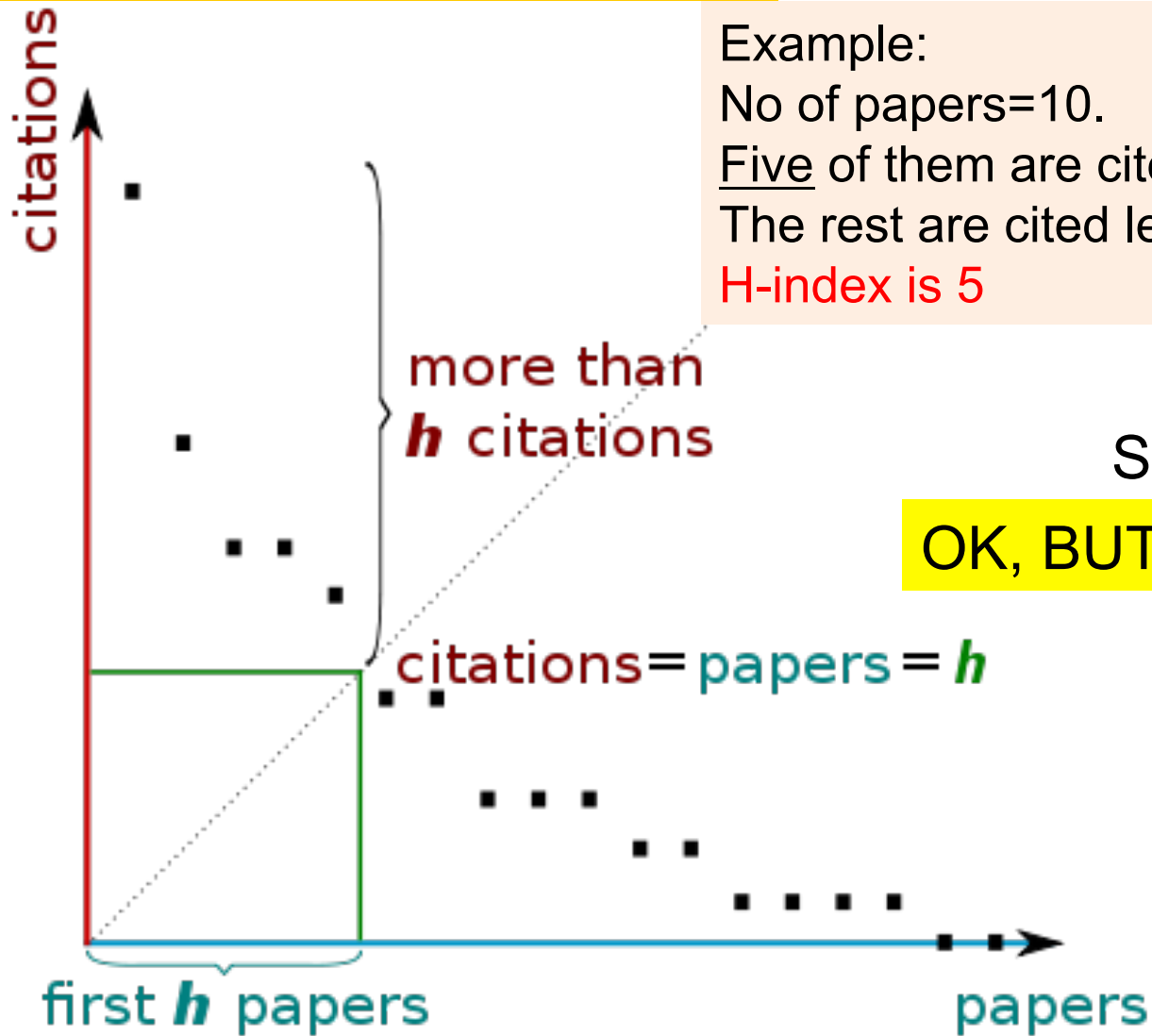
# h-index calculation

Example:

No of papers=10.

Five of them are cited 5 times (or more),  
The rest are cited less than 5 times,

**H-index is 5**



Self Citation?

**OK, BUT NOT TOO MANY!**

# KEY FOR SUCCESSFUL WRITING

- Obtain **high quality research results**
- **A lot of reading**
  - Study how successful authors write their papers
  - Try to emulate some of their methods and style
- **Practice**. Academic writing is a SCIENCE that can be learned. Nobody is born writer!
- **Never give up!**

## **For Supervisor:**

A sure way of getting a rejection is to let the student writing the paper by himself (BK Bose; IEEE Fellow)

zainals@utm.my

Thank you...

