## How to write great papers and get them accepted in good journals

## From title to references From submission to acceptance



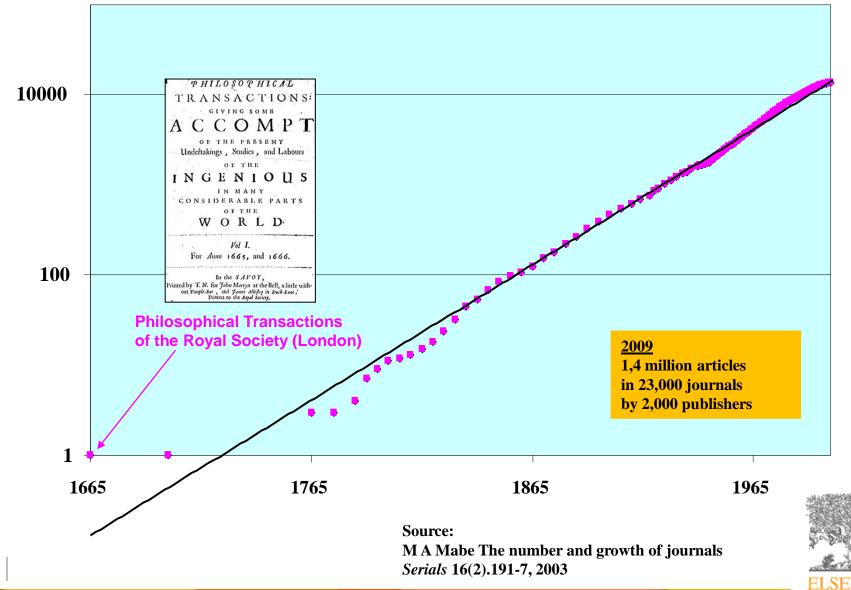
## **Workshop Outline**

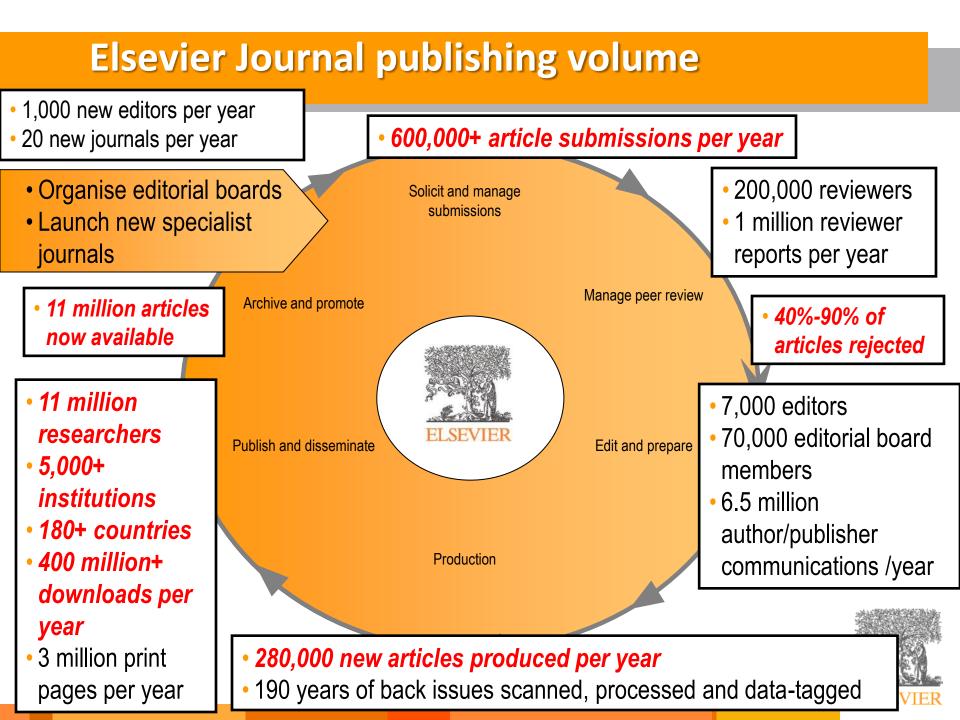
#### How to get Published

- Before you begin
- Select your audience
- The article structure
- The review and editorial process
- What not to do... (author ethics)



#### Peer – Reviewed Journal Growth 1665-2001





## **Trends in publishing**

#### Rapid conversion from "print" to "electronic"

- 1997: print only
- 2009: 55% e-only (mostly e-collections) 25% print only 20% print-plus-electronic
- 2013: 95+% electronic access
- Changing role of "journals" due to e-access
- Increased usage of articles
  - at lower cost per article
- Electronic submission
  - Increased manuscript inflow
- New publishing models
  - E.g. "author pays" models (open access), "delayed open access" (open archiving), etc.





## **Open Access Information**



#### **Gold Open Access**



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### **Tips for publishing Gold Open Access?**



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**Green Open Access** 

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**V** Three key funder developments:

Research Councils UK

European Commission - Horizon 2020

Every EU country to develop their own policy





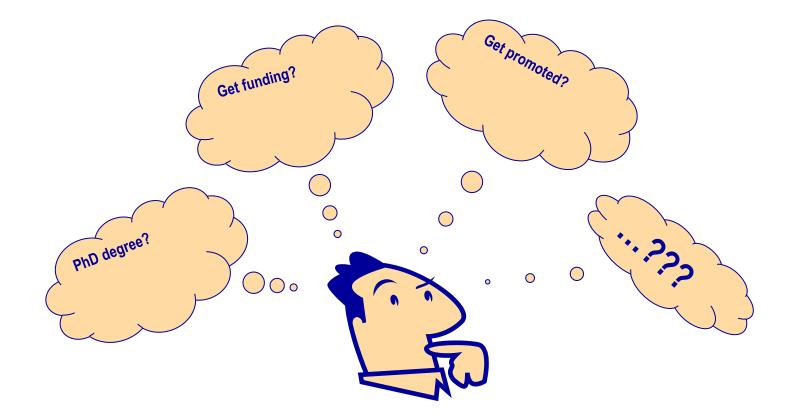
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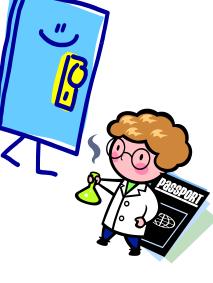


 However, editors, reviewers, and the research community don't consider these reasons when assessing your work.



#### Always keep in mind that ...

# .... your published papers, as a permanent record of your research, are your passport to your community !





## Why publish?

**Publishing** is one of the necessary steps **embedded in the** scientific **research process**. It is also necessary for graduation and career progression.

#### What to publish:

- New and original results or methods
- **Reviews or summaries of** particular subject
- Manuscripts that advance the knowledge and understanding in a certain scientific field

What NOT to **publish**:

- Reports of no scientific interest
- Out of date work
- **Duplications** of previously published work
- Incorrect/unacceptable conclusions



## You need a **STRONG** manuscript to present your contributions to the scientific community



#### What is a strong manuscript?

- Has a <u>novel</u>, <u>clear</u>, <u>useful</u>, and <u>exciting</u> message
- Presented and constructed in a <u>logical</u> manner
- Reviewers and editors can grasp the scientific significance <u>easily</u>





## How To Get Your Article Published Before you start



#### **Practical Advice - Information**

- Find out what's Hot
  - http://info.scopus.com/topcited/
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#### • Find the trends of the subject area

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#### Find out more about the journals

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### IF & SNIP & SJR





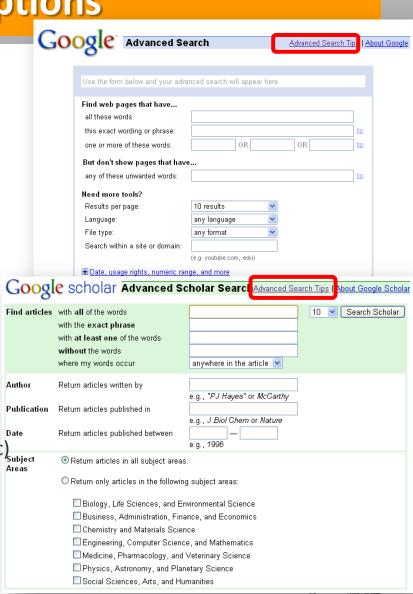




#### Use the advanced search options

- Within Google and Google Scholar use the advanced searches and check out the Search Tips.
- In ScienceDirect, Scopus, WoS/WoK and other databases use proximity operators:
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#### E.g. wind w/3 energy





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e-mail address 🕖 🕤	<ol> <li>Alzheimer's disease * Review article The Lancet, Volume 377, Issue 9770, March 2011, Pages 1019-1031 Ballard, C.; Gauthier, S.; Corbett, A.; Brayne, C.; Aarsland, D.; Jones, E. Gited by SoïVerse Scopus (193)     </li> </ol>	
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Download the SciVerse ScienceDirect App today!	<ol> <li>Atrial fibrillation * Review article The Lancet, Volume 379, Issue 9816, February 2012, Pages 648-661 Lip, G.Y.; Tse, H.F.; Lane, D.A.</li> <li></li></ol>	
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Year	8	Protein folding and association: Insights from the interfacial and thermodynamic properties of hydrocarbons	Nicholls, A., Sharp, K.A., Honig, B.	1991	Proteins: Structure, Function and Gene	tics 11 (4) , pp. 281-29	6 485
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	4,398)> 4,523)>	Mold web server for nucleic acid folding and hybridization prediction 3	Zuker, M.	2003	Nucleic Acids Research 31 (13) , pp. 34	406-3415	4536
2009	4,636) >	View at Publisher   Full Text   Related documents					
View more		SCOP: A structural classification of proteins database for the investigation of sequences and structures	Murzin, A.G., Brenner, S.E., Hubbard, T., Chothia, C.	1995	Journal of Molecular Biology 247 (4), p	p. 536-540	4075
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Scheraga, H.A. Uversky, V.N.	(254)>	View at Publisher   Full Text   🗣 Show abstract   Related documents					
Baker, D.	(147)>	Protein structure comparison by alignment of distance matrices	Holm, L., Sander, C.	1993	Journal of Molecular Biology 233 (1), p	p. 123-138	299
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Year	*	m	Protein folding. Molecular chaperones in the cytosol: From nascent chain to folded protein	Harti, F.U., Hayer-Harti, M.	2002	Science 295 (5561), pp. 1852-1858	1659
Author Name	*	2	View at Publisher   Full Text   🖵 Show abstract   Related documents		$\square$		
Bukau, B. Buchner, J. Huber, R. Serrano, L.	(83)> (63)> (56)> (53)>	3	Soluble protein oligomers in neurodegeneration: Lessons from the Alzheimer's amyloid β-peptide View at Publisher   Full Text   G Show abstract   Related documents	Haass, C., Selkoe, D.J.	2007	Nature Reviews Molecular Cell Biology 8 (2) , pp. 101-112	1267
Schmid, F.X. View more	(53)>	[] 4	Global, in Vivo, and Site-Specific Phosphorylation Dynamics in Signaling Networks View at Publisher   Full Text   Go Show abstract   Related documents	Olsen, J.V., Blagoev, B., Gnad, F., Macek, B., Kumar, C., Mortensen, P., Mann, M.	2006	Cell 127 (3), pp. 635-648	1246
Subject Area Document Type	*	5	Crystal structure of the ribosome at 5.5 Å resolution View at Publisher   Full Text   G Show abstract   Related documents	Yusupov, M.M., Yusupova, G.Zh., Baucom, A., Lieberman, K., Earnest, T.N., Cate, J.H.D., Noller, H.F.	2001	Science 292 (5518) , pp. 883-896	1225
Source Title Keyword	*	6	SNAREs - Engines for membrane fusion	Jahn, R., Scheller, R.H.	2006	Nature Reviews Molecular Cell Biology 7 (9) , pp. 631-643	803
Affiliation	*		View at Publisher   Full Text   Show abstract   Related documents				
CNRS Centre National de la Recherche Scientifique	(432)>	7	Rapid degradation of a large fraction of newly synthesized proteins by proteasomes View at Publisher   Full Text:   ↓ Show abstract   Related documents	Schubert, U., Antón, L.C., Gibbs, J., Norbury, C.C., Yewdell, J.W., Bennink, J.R.	2000	Nature 404 (6779) , pp. 770-774	708
Max Planck Institute of Biochemistry	(362)> (327)>	8	Hsp70 chaperones: Cellular functions and molecular mechanism View at Publisher   Full Text   I Show abstract   Related documents	Mayer, M.P., Bukau, B.	2005	Cellular and Molecular Life Sciences 62 (6) , pp. 670-684	646
<ul> <li>Technische Universität München</li> <li>Universität Heidelberg</li> </ul>	(282)>	9	Structure of TPR domain-peptide complexes: Critical elements in the assembly of the Hsp70-Hsp90 multichaperone machine View at Publisher   Full Text   GP Show abstract   Related documents	Scheufler, C., Brinker, A., Bourenkov, G., Pegoraro, S., Moroder, L., Bartunik, H., Hartl, F.Ulrich, Moarefi, I.	2000	Cell 101 (2) , pp. 199-210	592



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Cell		Biochemical and Biophysical Research Communicatio mTOR and Akt Signaling in Cancer: SGK Cycles In	ns	
olume 12, Issue 1, 10 July 2007, Pages 9-22		Molecular Cell		
		<ul> <li>mTOR and cancer: many loops in one pathway Current Opinion in Cell Biology</li> </ul>		
lo: 10.1016/j.ccr.2007.05.008   How to Cite or Link Using DOI		· Regulation of Akt by arachidonic acid and phosphoinosi		
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Cambridge, MA 02141, USA	ogy, s cambridge center,	<ul> <li>Transforming growth factor-β-induced protein (TGFBI) International Journal of Oncology</li> </ul>	<u></u>	
<sup>2</sup> The Broad Institute, 7 Cambridge Center, Cambridge, MA 02141, USA		• The Hosphoinositide 3-kinase signaling pathway as a t	h	
<sup>3</sup> Center for Cancer Research and Massachusetts Institute of Technology, 77 Massachusetts Avenue, Cambri	idge MA 02139 USA	Current Cancer Drug Targets View details of all 625 citing articles in Scopus		
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Document

#### Questions to answer before you write

#### Think about **WHY you want to publish your work**.

- Is it new and interesting?
- Is it a current hot topic?
- Have you provided solutions to some difficult problems?
- Are you **ready** to publish at this point?

#### If <u>all</u> answers are "<u>yes</u>", then start preparations for your manuscript





## What type of manuscript?

- Full articles/Original articles;
- Letters/Rapid Communications/Short communications;
- Review papers/perspectives;

Self-evaluate your work: Is it sufficient for a full article? Or are your results so thrilling that they need to be shown as soon as possible?

Ask your supervisor and colleagues for advice on manuscript type. Sometimes outsiders see things more clearly than you.



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- Look at your references these will help you narrow your choices.
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- Ask yourself the following questions:
  - Is the journal peer-reviewed to the right level?
  - Who is this journal's audience?
  - How fast does it make a <u>decision</u> or <u>publish</u> your paper?
  - What is the journal's Impact Factor?
  - Does it really exist or is **dubious**? (check for example Beall's List of Predatory Open Access Publishers)
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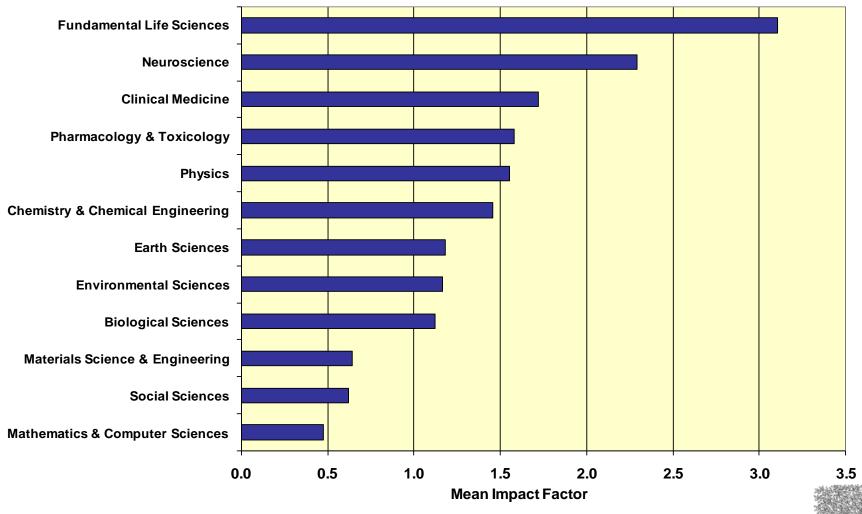
[the average annual number of citations per article published]

- For example, the 2011 impact factor for a journal is calculated as follows:
  - A = the number of times articles published in 2009 and 2010 were cited in indexed journals during 2011
  - B = the number of "citable items" (usually articles, reviews, proceedings or notes; not editorials and letters-to-the-Editor) published in 2009 and 2010
  - 2011 impact factor = A/B
  - e.g. <u>600 citations</u> = 2.000
     150 + 150 articles





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## Write your draft as if you are going to submit to the first on your list. Use its Guide to Authors



#### Read the 'Guide to Authors'- Again and again!

- Stick to the Guide for Authors in your manuscript, even in the first draft (text layout, nomenclature, figures & tables, references etc.). In the end it will save you time, and also the editor's.
- Editors (and reviewers) do not like wasting time on poorly prepared manuscripts. It is a sign of disrespect.





#### Read the 'Guide to Authors'- Again and again!



#### Guide for authors

Submit your paper

#### Track your paper

Order journal

View articles

Abstracting and indexing

Editorial board

#### Browse journals > Journal of Molecular Biology > Guide for authors

#### **Guide for Authors**

#### Author information pack

- INTRODUCTION
- Editorial policy
- · Sharing of reagents and data
- Sequence data
- Structural data
- NMR assignments
- Cell lines
- Types of paper
- Contact details for submission
- BEFORE YOU BEGIN
- Ethics in publishing
- Conflict of interest
  - Submission declaration
  - Changes to authorship
  - Copyright
     Retained author rights
  - Funding body agreements and policies

- Open access
- Language (usage and editing services)
- Submission
- PREPARATION
- Use of wordprocessing software
- Article structure
- Subdivision
- Essential title page information
- Abstract
- Graphical abstract
- Highlights
- Keywords
- Abbreviations
- Introduction
- Results
- Discussion
- Materials and methods

- Database linking
- Accession numbers
- Glossary
- Acknowledgements
- Footnotes
- Artwork
- Color artwork
- Tables
- References
- · Journal abbreviations source
- Supplemental data
- Additional information
- AFTER ACCEPTANCE
- Use of the Digital Object
  Identifier
- Proofs
- Offprints
- AUTHOR INQUIRIES





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#### An international editor says...

#### "The following problems appear much too frequently"

- Submission of papers which are clearly out of scope
- Failure to format the paper according to the Guide for Authors
- Inappropriate (or no) suggested reviewers
- Inadequate response to reviewers
- Inadequate standard of English
- Resubmission of rejected manuscripts without revision

#### - Paul Haddad, Editor, Journal of Chromatography A



#### **Scientific Language – Overview**

#### Write with clarity, objectivity, accuracy, and brevity.

- Key to successful scientific writing is to be alert for common errors:
  - Sentence construction
  - Incorrect tenses
  - Inaccurate grammar
  - Not using English

Check the <u>Guide for Authors</u> of the target journal for language specifications



#### Scientific Language – Sentences

- Write direct and <u>short</u> sentences
- <u>One idea</u> or piece of information <u>per</u> <u>sentence</u> is sufficient
- <u>Avoid</u> multiple statements in one sentence

#### An example of what <u>NOT</u> to do:

"If it is the case, intravenous administration should result in that emulsion has higher intravenous administration retention concentration, but which is not in accordance with the result, and therefore the more rational interpretation should be that SLN with mean diameter of 46nm is greatly different from emulsion with mean diameter of 65 nm in entering tumor, namely, it is probably difficult for emulsion to enter and exit from tumor blood vessel as freely as SLN, which may be caused by the fact that the tumor blood vessel aperture is smaller."



### Authorship

- Policies regarding authorship can vary
- One example: the International Committee of Medical Journal Editors ("Vancouver Group") declared that an author must:
  - 1. **substantially contribute** to conception and design, or acquisition of data, or analysis and interpretation of data;
  - 2. draft the article or revise it critically for important intellectual content; and
  - **3.** give their approval of the final full version to be published.
  - 4. <u>ALL three</u> conditions must be fulfilled to be an author!

All others would qualify as "Acknowledged Individuals"



### **Authorship - Order & Abuses**

- General principles for who is listed first
  - First Author
    - Conducts and/or supervises the data generation and analysis and the proper presentation and interpretation of the results
    - Puts paper together and submits the paper to journal
  - Corresponding author
    - The first author or a senior author from the institution
      - Particularly when the first author is a PhD student or postdoc, and may move to another institution soon.
- Abuses to be avoided
  - <u>Ghost Authorship</u>: leaving out authors who should be included
  - <u>Gift Authorship</u>: including authors who did not contribute significantly



### **Author names: common problems**

### Different Spellings

- Järvinen / Jaervinen / Jarvinen
- Lueßen / Lueben / Luessen
- van Harten / Vanharten / Van
- First/Last Names
  - Asian names often difficult for Europeans or Americans
- What in case of marriage/divorce?

### **Be consistent!**

If you are not, how can others be?



### Author Profiles...be consistent if you can, or correct

	Search		
🛿 Print   💟 E-mail   🕼 Request author detail c	corrections		
Van'T Veer, Laura J.			
Personal			
Name	Van'T Veer, Laura J.		
Other formats	van't Veer, Laura J. Van't Veer, L. J. Van 't Veer, L. J. van't Veer, L. J. Van't Veer, L. J. Van't Veer, L. J. van't Veer, Laura Van't Veer, Laura Van 't Veer, L. Van't Veer, L. Van't Veer, L. Van't Veer, L.	Van 't Veer, Laura J. Van 'T Veer, L. J. van 't Veer, L. J. van 't Veer, Laura Van 't Veer, Laura van 't Veer, Laura van 't Veer, L. Van 't Veer, Laura Van 'T Veer, Laura Van 'T Veer, Laura J.	
Author ID	7004922326		
Affiliation	The Netherlands Cancer Institute, Amsterdam Netherlands		
Research			
Documents	204 🛛 🔮 View Author Evaluator   🕂 Add to my list   🔖 Set alert   🔝 S	204 🛛 🔮 View Author Evaluator   🕂 Add to my list   🔖 Set alert   🔝 Set feed	
References	4242		
Citations	18676 total citations by 12720 documents 📶 View citation overview   🐤	18676 total citations by 12720 documents 📶 View citation overview   下 Set alert	
ndex	54 🛛 🛛 View h-Graph The h Index co	nsiders Scopus articles published after 1995.	
Co-authors	150 (maximum 150 co-authors can be displayed)		
Web search	8304		
Subject area	Medicine Biochemistry, Genetics and Molecular Biology Agricultural and Biological Sciences More		

### **ORCID: Author Profile 2.0**

# ORCID

Connecting Research and Researchers

• Open

D

- Researcher &
- Contributor

### The Challenge:

- The scholarly record is broken
- Name ambiguity is an issue

### The Solution:

• Establish a researcher identifier registry (partnership between Univs, Publishers, funding bodies...)!

### The Benefits:

- Current authors can claim already published work
- New authors can establish unique identifier

#### ORCID Launches Registry October 16, 2012

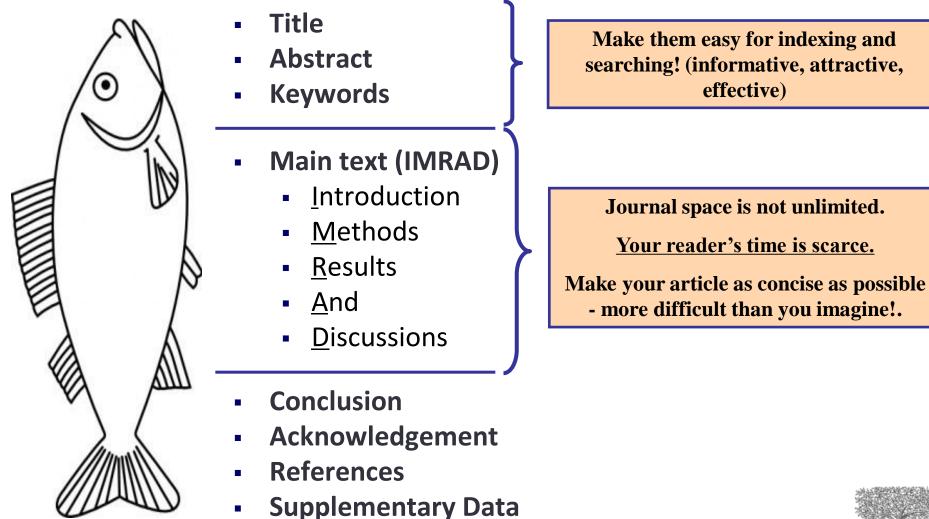
ORCID (Open Researcher and Contributor ID) is excited to announce the launch of its Registry (http://orcid.org), where researchers can distinguish themselves by creating a unique personal identifier.

"ORCID addresses a problem shared by individuals and organizations across the research community: reliably connecting Launchegarch 6th 9.640, 0.00 for 20th Ecutive Director of...

Read more >

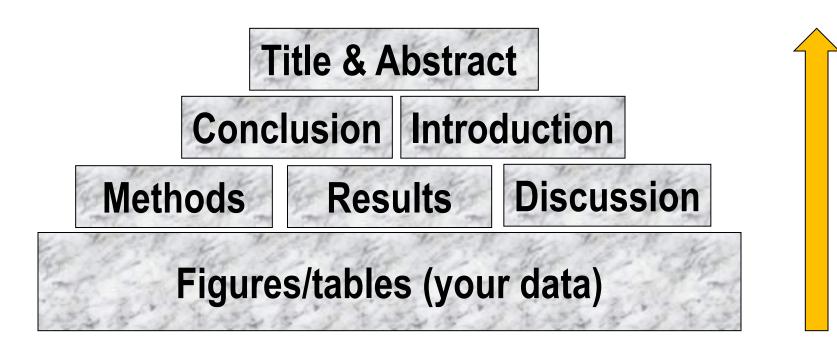


### **General Structure of a Research Article**





### The process of writing – building the article





### Title

 A good title should contain the fewest possible words that adequately describe the contents of a paper.

#### Effective titles

- Identify the main issue of the paper
- Begin with the subject of the paper
- Are accurate, unambiguous, specific, and complete
- Are as short as possible
- Articles with short, catchy titles are often better cited
- Do not contain rarely-used abbreviations
- Attract readers Remember: readers are the potential authors who will cite your article





In an "electronic world, keywords determine whether your article is found or not!

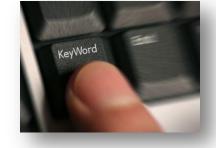
Avoid making them

- too general ("drug delivery", "mouse", "disease", etc.)
- too narrow (so that nobody will ever search for it)

Effective approach:

Look at the keywords of articles relevant to your manuscript Play with these keywords, and see whether they return relevant papers, neither too many nor too few





### Abstract

### Tell readers what you did and the important findings

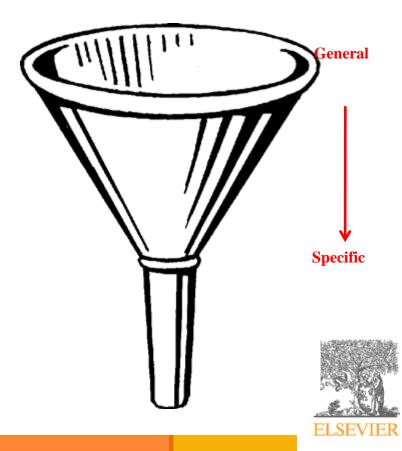
- One paragraph (between 50-250 words) often, plus Highlight bullet points
- Advertisement for your article
- A clear abstract will strongly influence if your work is considered further

Graphite intercalation compounds (GICs) of composition CxN(SO2CF3)2 · δF are prepared under ambient conditions in 48% hydrofluoric acid, using K2MnF6 as an oxidizing reagent. The stage 2 GIC product structures are determined using powder XRD and modeled by fitting one dimensional electron density profiles. A new digestion method followed by selective fluoride electrode elemental analyses allows the determination of free fluoride within products, and the compositional x and δ parameters are determined for reaction times from 0.25 500 h. What are the main findings

# The place to convince readers that you know why your work is relevant, also for them

#### Answer a series of questions:

- What is the problem?
- Are there any existing solutions?
- Which one is the best?
- What is its main limitation?
- What do you hope to achieve?



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### Pay attention to the following

- Before you present your new data, put them into perspective first
- Be brief, it is <u>not</u> a history lesson
- Do not mix introduction, results, discussion and conclusions. Keep them separate
- Do not overuse expressions such as "novel", "first time", "first ever", "paradigm shift", etc.

#### Cite only relevant references

 Otherwise the editor and the reviewer may think you don't have a clue where you are writing about



7

### **Methods / Experimental**

- Include all important details so that the reader can repeat the work.
  - Details that were previously published can be omitted but a general summary of those experiments should be included
- Give vendor names (and addresses) of equipment etc. used
- All chemicals must be identified
  - Do not use proprietary, unidentifiable compounds without description
- Present proper control experiments
- Avoid adding comments and discussion.
- Write in the past tense
  - Most journals prefer the passive voice, some the active.
- Consider use of Supplementary Materials
  - Documents, spreadsheets, audio, video, .....

*Reviewers will criticize incomplete or incorrect descriptions, and may even recommend rejection* 



### **Results – what have you found?**

- The following should be included
  - the main findings
    - Thus not all findings



- Findings from experiments described in the Methods section
- Highlight findings that differ from findings in previous publications, and unexpected findings
- Results of the statistical analysis

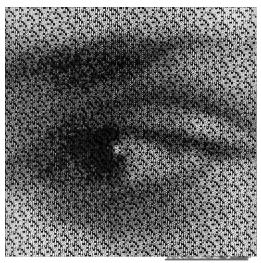


### **Results – Figures and tables**

### Illustrations are critical, because

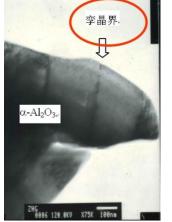
- Figures and tables are the most efficient way to present results
- Results are the driving force of the publication
- Captions and legends must be detailed enough to make figures and tables self-explanatory
- No duplication of results described in text or other illustrations

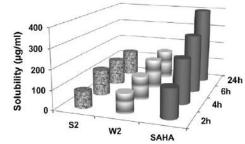
"One Picture is Worth a Thousand Words" Sue Hanauer (1968)



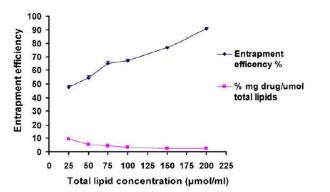
### **Results – Appearance counts!**

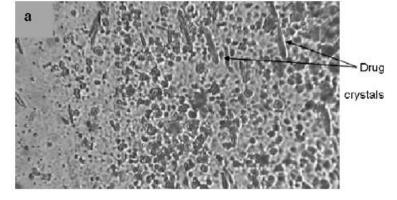
- Un-crowded plots
  - 3 or 4 data sets per figure; well-selected scales; appropriate axis label size; symbols clear to read; data sets easily distinguishable.
- Each photograph must have a scale marker of professional quality in a corner.
- Text in photos / figures in English
  - > Not in French, German, Chinese, Korean, ...
- Use color ONLY when necessary.
  - If different line styles can clarify the meaning, then never use colors or other thrilling effects.
- Color must be visible and distinguishable when printed in black & white.





• Do not include long boring tables!







### **Discussion** – what do the results mean?

- It is the most important section of your article. Here you get the chance to SELL your data!
  - Many manuscripts are <u>rejected</u> because the Discussion is weak
- Check for the following:
  - How do your results relate to the original question or objectives outlined in the Introduction section?
  - Do you provide interpretation for each of your results presented?
  - Are your results consistent with what other investigators have reported? Or are there any differences? Why?
  - Are there any limitations?
  - Does the discussion logically lead to your conclusion?
- Do not
  - Make statements that go beyond what the results can support
  - Suddenly introduce new terms or ideas



### Conclusions

- Present global and specific conclusions
- Indicate uses and extensions if appropriate
- Suggest future experiments and indicate whether they are underway
- Do not summarize the paper
  - The abstract is for that purpose
- Avoid judgments about impact



### **References: get them right!**

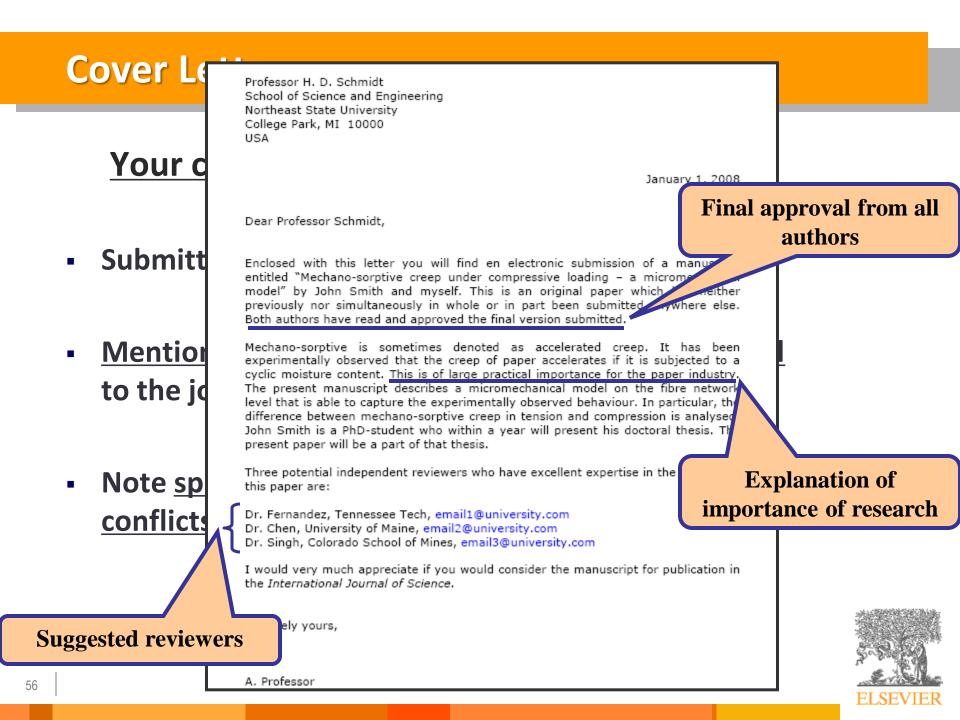
- Please adhere to the Guide for Authors of the journal
- It is <u>your</u> responsibility, not of the Editor's, to format references correctly!
- Check
  - Referencing style of the journal
  - The spelling of author names, the year of publication
  - Punctuation use
  - Use of "et al.": "et al." translates to "and others",
- Avoid citing the following if possible:
  - Personal communications, unpublished observations, manuscripts not yet accepted for publication
    - Editors may ask for such documents for evaluation of the manuscripts
  - Articles published only in the local language, which are difficult for international readers to find



### **Supplementary Material**

- Data of secondary importance for the main scientific thrust of the article
  - e.g. individual curves, when a representative curve or a mean curve is given in the article itself
- Or data that do not fit into the main body of the article
  - e.g. audio, video, ....
- Not part of the printed article
  - Will be available online with the published paper
- Must relate to, and support, the article





### **Suggest potential reviewers**

- Your suggestions will help the Editor to move your manuscript to the review stage more efficiently.
- You can easily find potential reviewers and their contact details from articles in your specific subject area (e.g., your references).
- The reviewers should represent at least two regions of the world. And they should not be your supervisor or close friends.
- Be prepared to suggest 3-6 potential reviewers, based on the Guide to Authors.





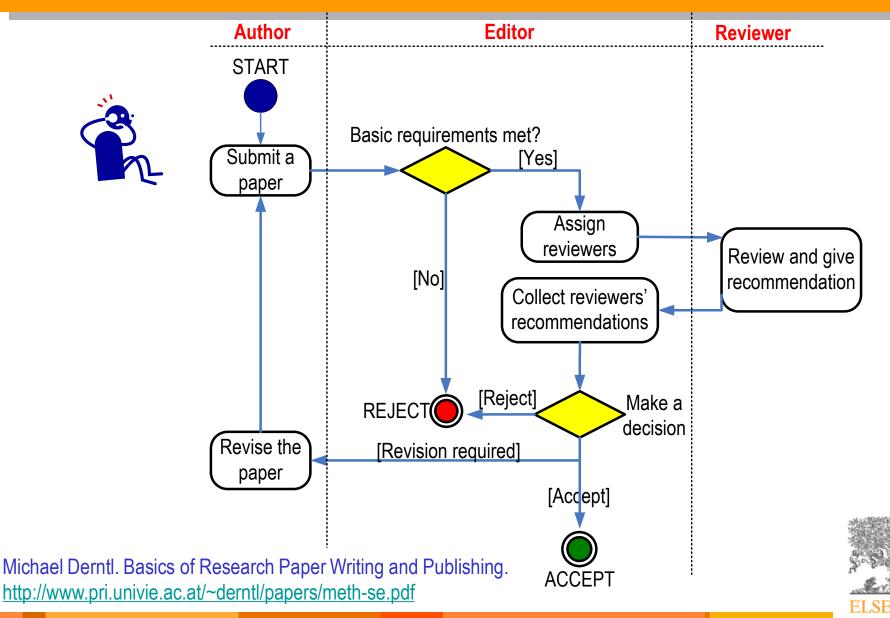
### Do everything to make your submission a success

- No one gets it right the first time!
  - Write, and re-write ....
- Suggestions
  - After writing a first version, take several days of rest.
     Come back with a critical, fresh view.
  - Ask colleagues and supervisor to review your manuscript. Ask them to be highly critical, and *be open to their suggestions*.
  - Make changes to incorporate comments and suggestions. Get all co-authors to approve version to submit.

Then it is the point in time to submit your article!



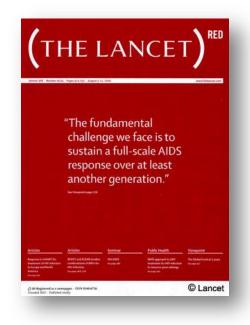
### **The Peer Review Process – not a black hole!**



Many journals use a system of initial editorial review. Editors may reject a manuscript without sending it for review

### Why?

- The peer-review system is grossly overloaded and editors wish to use reviewers only for those papers with a good probability of acceptance.
- It is a disservice to ask reviewers to spend time on work that has clear and evident deficiencies.

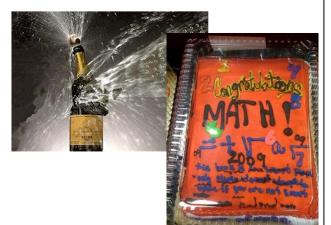




### First Decision: "Accepted" or "Rejected"

### Accepted

• Very rare, but it happens



#### Congratulations!

- Cake for the department
- Now wait for page proofs and then for your article to be online and in print

### Rejected

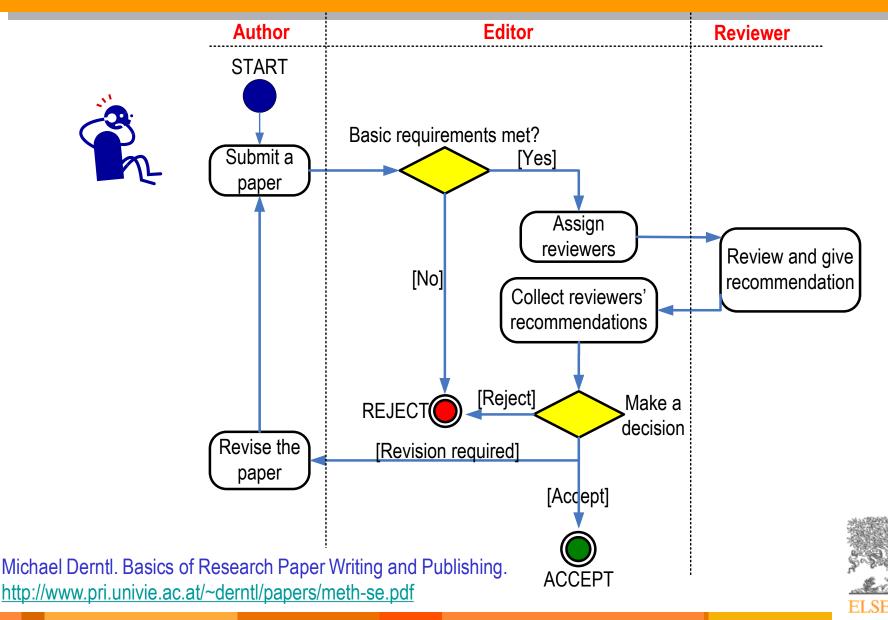
- Probability 40-90% ...
- Do not despair
  - It happens to everybody

#### Try to understand WHY

- Consider reviewers' advice
- Be self-critical
- If you submit to another journal, begin as if it were a new manuscript
  - Take advantage of the reviewers' comments
  - They may review your manuscript for the other journal too!
  - Read the Guide for Authors of the new journal, again and again.



### **The Peer Review Process – revisions**



### First Decision: "Major" or "Minor" Revision

### Major revision

- The manuscript may finally be published in the journal
- Significant deficiencies must be corrected before acceptance
- Usually involves (significant) textual modifications and/or additional experiments

### Minor revision

- Basically, the manuscript is worth being published
- Some elements in the manuscript must be clarified, restructured, shortened (often) or expanded (rarely)
- Textual adaptations
- "Minor revision" does NOT guarantee acceptance after revision!



### **Manuscript Revision**

### Prepare a detailed Response Letter

- Copy-paste <u>each</u> reviewer comment, and type your response below it
- State specifically which changes you have made to the manuscript
  - Include page/line numbers
  - No general statements like "Comment accepted, and Discussion changed accordingly."
- Provide a *scientific* response to comments to accept, .....
- ..... or a convincing, solid and <u>polite</u> rebuttal when you feel the reviewer was wrong.
- Write in such a manner, that your response can be forwarded to the reviewer without prior editing

Do not do yourself a disfavour, but cherish your work

- You spent weeks and months in the lab or the library to do the research
- It took you weeks to write the manuscript......



.....Why then run the risk of avoidable rejection by not taking manuscript revision seriously?



## Increasing the likelihood of acceptance

### All these various steps are not difficult

You have to be consistent.

You have to check and recheck before submitting.

Make sure you tell a logical, clear, story about your findings.

Especially, take note of referees' comments. They improve your paper.

This should increase the likelihood of your paper being accepted, and being in the 30% (accepted) not the 70% (rejected) group!



### What leads to acceptance ?

- <u>Attention to details</u>
- <u>C</u>heck and double check your work
- <u>C</u>onsider the reviewers' comments
- <u>English must be as good as possible</u>
- <u>P</u>resentation is important
- <u>Take your time with revision</u>
- Acknowledge those who have helped you
- <u>N</u>ew, original and previously unpublished
- <u>C</u>ritically evaluate your own manuscript
- <u>E</u>thical rules must be obeyed

– Nigel John Cook Editor-in-Chief, *Ore Geology Reviews* 



### What NOT to do (Publishing Ethics)

# Author's responsibilities



## **Ethics Issues in Publishing**

### **Scientific misconduct**

Falsification of results

### **Publication misconduct**

- Plagiarism
  - Different forms / severities
  - The paper must be original to the authors
- Duplicate publication
- Duplicate submission
- Appropriate acknowledgement of prior research and researchers
- Appropriate identification of all co-authors
- Conflict of interest



### Plagiarism

- A short-cut to long-term consequences!
- Plagiarism is considered a serious offense by your institute, by journal editors, and by the scientific community.
- Plagiarism may result in *academic charges*, but will certainly cause rejection of your paper.
- Plagiarism will *hurt your reputation* in the scientific community.
   No Copying



### **Duplicate Publication**

- Two or more papers, without full cross reference, share the same hypotheses, data, discussion points, or conclusions
- An author should not submit for consideration in another journal a previously published paper.
  - Published studies <u>do not need to be repeated</u> unless further confirmation is required.
  - Previous publication of an abstract during the proceedings of conferences does not preclude subsequent submission for publication, but <u>full disclosure</u> should be made at the time of submission.
  - Re-publication of a paper in another language is acceptable, provided that there is <u>full and prominent disclosure of its original source</u> at the time of submission.
  - At the time of submission, authors should disclose details of related papers, even if in a different language, and similar papers in press.
  - This includes translations



### **Plagiarism Detection Tools**

- Elsevier is participating in 2 plagiarism detection schemes:
  - TurnItIn (aimed at universities)
  - IThenticate (aimed at publishers and corporations)

Manuscripts are checked against a database of 20 million peer reviewed articles which have been donated by 50+ publishers, including Elsevier.

All post-1994 Elsevier journal content is now included, and the pre-1995 is being steadily added week-by-week

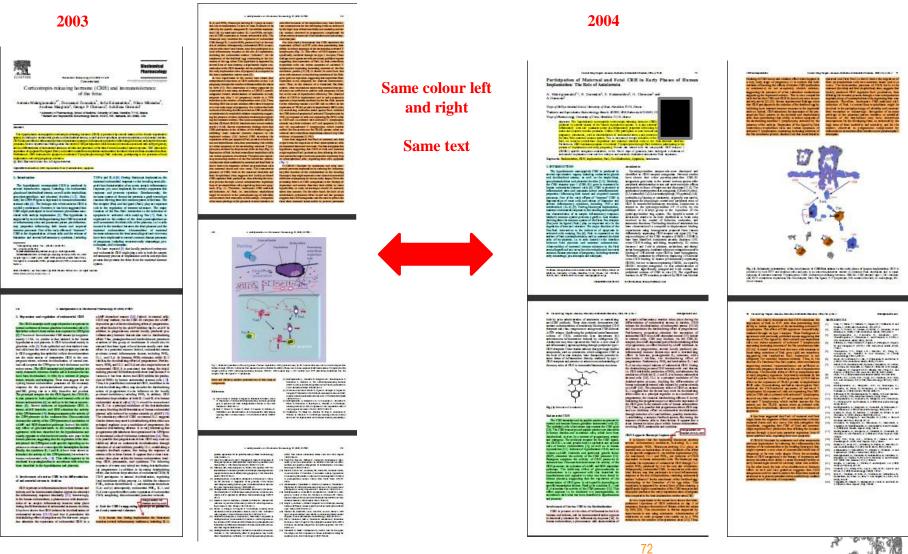
- Editors and reviewers
- Your colleagues
- "Other" whistleblowers
  - "The walls have ears", it seems ...







### **Publication ethics – Self-plagiarism**



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#### doi:10.1016/j.sigpro.2005.07.019 🕜 Cite or Link Using DOI Copyright © 2005 Elsevier B.V. All rights reserved.



Available online 24 August 2005.

This article has been retracted at the request of the Editor-in-Chief and P http://www.elsevier.com/locate/withdrawalpolicy.

Reason: This article is virtually identical to the previously published article algorithm for SNR improvement in ultrasonic NDT", Independent Nonde International, volume 38 (2005) 453 - 458 authored by M. Ruiz Report.

the echoes issuing from the flaws to be detected. Therefore, it cannot be cancelled by classical time averaging or matched band-pass filtering techniques.

Many signal processing techniques have been utilized for signal-to-noise ratio (SNR) improvement in ultrasonic NDT of highly scattering materials. The most popular one is the split spectrum processing (SSP) [1-3], because it makes possible real-time ultrasonic test for industrial applications, providing quite good results. Alternatively to SSP, wavelet transform (WT) based denoising/detection methods have been proposed during recent years [4-8], yielding usually to higher improvements of SNR at the expense of an increase in complexity. Adaptive time-frequency analysis by basis pursuit (BP) [9,10] is a secent technique for decomposing a signal into an optimal superposition of elements in an overcomplete waveform dictionary. This technique and some other related techniques have been successfully applied to denoising ultrasonic signals co taminated with grain noise in highly scattering materials [11,12], as an alternative to the W technique, the computational cost of e BP algorithm being the main drawback

In this paper, we propose a del mo him pursuit-based signal processing mean of our im-proving SNR in ultrascel. NDT C highly scattering materials, such a start and composites. Matching pusuit is used instead of BP to reduce the complexity. Device its itema nature, the method is fast exactly to be real-time implemen-ted. The performance of the proposed method has been evaluated us noth or puter simulation and experimental reads, then when the input SNR (NRin) is lower own 0dB (the level of erostructures is above the echoe. catte level of charge.

#### 2. Matching pursuit

Matching pursuit was introduced by Mallat and Zhang [13]. Let us suppose an approximation of the ultrasonic backscattered signals x[n] as a linear expansion in terms of functions  $g_i[n]$  chosen from an over-complete dictionary. Let H be a Hilbert

space. We define the over-complete dictionary as a family  $D = \{a; i = 0, 1, \dots, L\}$  of vectors in H. such as  $||g_i|| = 1$ .

The problem of choosing functions  $g_i[n]$  that best approximate the analysed signal x[n] is computationally very complex. Matching pursuit is an iterative algorithm that offers sub-optimal solutions for decomposing sizes the terms of expansion functions chosen from a dominary, where I' norm is used as the approximation metric because of its mathemy cal convisience. When a well-designed dictionary is und in sing pursuit, the non-linear nature of the algorithm leads to compact at rave such model

In each gas of the introduce procedure, vector  $g_i[n]$  which give the largest oner product with the analysed signal is osen. The contribution of this vertices then subtracted from the signal and the cess is repeated on the residual. At the mth ration the sidue is



where  $\alpha_{imi}$  is the weight associated to optimum atom  $g_{int}[n]$  at the with iteration.

( ×[r

The weight  $a_i^{\mu}$  associated to each atom  $g_i[n] \in D$ at the wth iteration is introduced to compute all the inner products with the residual  $r^{\mu}[w]$ :

$$i_{i}^{\mu} = \frac{(r^{\mu}[a], g_{i}[a])}{(g_{i}[a], g_{i}[a])} = \frac{(r^{\mu}[a], g_{i}[a])}{\|g_{i}[a]\|^{2}}$$
  
=  $k^{\mu}[a], g_{i}[a]), \qquad (2)$ 

The optimum atom  $g_{(be)}[n]$  (and its weight  $\alpha_{(be)}$ ) at the with iteration are obtained as follows:

$$g_{\ell m}[n] = \arg \min_{q \in D} \|p^{m+1}[n]\|^2$$
  
=  $\arg \max_{a \in Q} \|a_i^m\|^2 = \arg \max_{a \in Q} \|a_i^m\|.$  (3)

The computation of correlations  $(r^{\mu}[n], q, [n])$  for all vectors q[n] at each iteration implies a high computational effort, which can be substantially reduced using an updating procedure derived from Eq. (1). The correlation updating procedure [13] is performed as follows:

 $(r^{m+1}[n], g_i[n]) = (r^m[n], g_i[n])$ 

 $-\alpha_{ijij} \langle g_{fmi}[n], g_i[n] \rangle$ .

An article in which the authors committed plagiarism: it will not be removed from ScienceDirect ever. Everybody who downloads it will see the reason for the retraction...

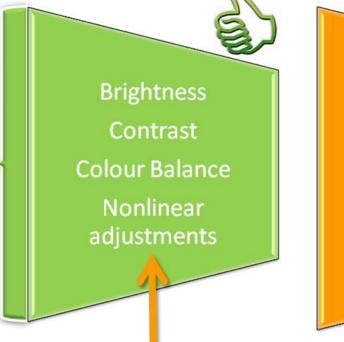
Signal Processing Volume 86, Issue 5, May 2006, Pages 962-970

#### ELSEVIER

(4)

### Figure Manipulation – <u>some</u> things are allowed

As long as they don't obscure or eliminate info present in the original image



Must be disclosed in the figure legend Enhanced Obscured Moved Removed Introduced

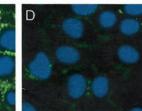


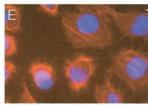
### **Figure Manipulation Example - Different authors and reported experiments**

#### Am J Pathol, 2001

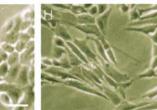






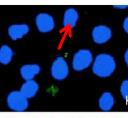


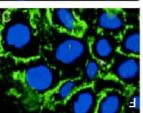


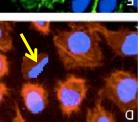


Worked on, added to, becomes:

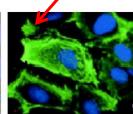
Rotated 180°

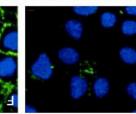


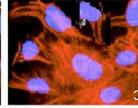






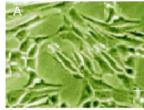




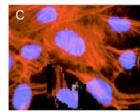


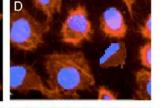


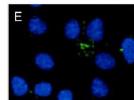
Life Sci, 2004

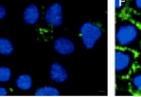


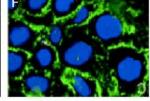


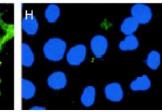














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- Malcolm W. Kennedy. Professor, Institue of Biomedical and Life Sciences, University of Glasgow, UK



### **Further reading for you**

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### **Questions?**



Or for questions later, please contact a.newman@elsevier.com

