How to Write a World-class Paper

From title to references From submission to acceptation

November 2010

Ingrid van de Stadt Regional Customer Development Manager Elsevier



Agenda

- Why do we publish?
- What is important?
 - Citations/Impact Factor etc.
- Role of Editors and Reviewers
- Step-by-step publishing guide:
 - Preparation/Language tips/Build-up of article etc.
- Copyright/Ethics
- Questions



Why Scientific Publishing ?





Elsevier and Publishing



For authors looking to publish their research, the time an article takes to go through the publishing process is one of the most important consideration in selecting a journal

Submission to	Submission to	Submission to
Acceptance	first online	Print
(weeks)	(weeks)	(weeks)
22.6	31.4	47.3

Many journals have now introduced a "Fast Rejection" process by the journal Editor



Impact Factor: Established Journal Measure

Impact Factor

[the average annual number of citations per article published]

- For example, the 2003 impact factor for a journal would be calculated as follows:
 - *A* = the number of times articles published in 2001 and 2002 were cited in indexed journals during 2003
 - B = the number of "citable items" (usually articles, reviews, proceedings or notes; not editorials and letters-to-the-Editor) published in 2001and 2002
 - 2003 impact factor = A/B
 - e.g. <u>600 citations</u> = 2 150 + 150 articles



Even prestigious journals publishes many non cited articles

Not all articles in high impact journals (e.g. about 20% in Nature, Impact Factor= 32.2) are cited!

	Ļ	Document (sort by relevance)	Author(s)	Date	Source Title	
1	•	Threaded for degradation Abstract + Refs View at Publisher Full Text	Eggleston, A.K.	2005	Nature Structural and Molecular Biology 12 (12), pp. 1029	0
2		What is science? Abstract + Refs View at Publisher Full Text	[No author name available]	2005	Nature Structural and Molecular Biology 12 (12), pp. 1021	0
3		A poor assessment Abstract + Refs View at Publisher Full Text	[No author name available]	2005	<i>Nature</i> 438 (7071), pp. 1051-1052	0
4	•	For quiet students, finding a voice is the first step towards taking a stand [1] Abstract + Refs View at Publisher Full Text	<u>Cheung, P.</u>	2005	<i>Nature</i> 438 (7071), pp. 1078	0
5		The grapes of rock Abstract + Refs View at Publisher Full Text Show Abstract	Witze, A.	2005	<i>Nature</i> 438 (7071), pp. 1073-1074	0
6	•	AIDS at Christmas time Abstract + Refs View at Publisher Full Text Show Abstract	[No author name available]	2005	<i>Nature</i> 438 (7071), pp. 1051	0
7		Network aims to make maths count in Africa [4] Abstract + Refs View at Publisher Full Text	Ball, J.	2005	<i>Nature</i> 438 (7071), pp. 1078	0
8		Dogged by doubts. Abstract + Refs View at Publisher	<u>Cyranoski, D.</u>	2005	<i>Nature.</i> 438 (7071), pp. 1059	0
9		First glimpse Abstract + Refs View at Publisher	<u>Marris, E.</u>	2005	<i>Nature.</i> 438 (7071), pp. 1064-1067	0
10	•	The heat was on in 2005 Abstract + Refs View at Publisher Full Text	Henson, R.	2005	<i>Nature</i> 438 (7071), pp. 1062	0
11	•	India makes waves over tsunami warning system Abstract + Refs View at Publisher Full Text	<u>Jayaraman, K.S.</u>	2005	<i>Nature</i> 438 (7071), pp. 1060+1061	0
12	•	Diet book attacked for its high-protein advice	Dennis, C.	2005	Nature 438 (7071), pp.	0



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Different measures may better suit different fields



SJR and SNIP new journal "metrics"

- <u>SCImago Journal Rank (SJR)</u>, is a measure of the scientific prestige of scholarly sources: value of weighted citations per document. A source transfers its own 'prestige', or status, to another source through the act of citing it.
- A citation from a source with a relatively high SJR is worth more than a citation from a source with a lower SJR.
- <u>Source Normalized Impact per Paper (SNIP)</u> measures contextual citation impact by weighting citations based on the total number of citations in a subject field.
 - The impact of a single citation is given higher value in subject areas where citations are less likely, and vice versa.



Determine the level of your achievements: h index

It is important to remember that current metrics such as the *impact factor* and immediacy index are based on journal evaluation, whereas the *h-index* accounts for a researcher's body of work without the influence of other factors



Dr. Jorge E. Hirsch, University of San Diego



H-index

A scholar with an index of *h* has published *h* papers each of which has been cited by others at least *h* times



Quick Guide to Metrics

Year 1	Year 5	Year 10
Researcher has not published yet	Researcher has published peer- reviewed work	Researcher has achieved research independence
Examination results and peer-review comments	With small number of publications, metrics based on averages (h- index) my not reflect reseachers performance. Look at reading activity, journal ranking (Impact Factor, SJR or SNIP) or collaboration	Sufficient track record to make h- index meaningful. Also use document and citation counts, benchmarking and cited/uncited documents ratio



Review your research area: "pearl growing"

•Ancestry Approach: aquiring a research paper and examining its references "backward searching"

•**Descendency Approach:** identify a paper's offspring: those recent publications that reference the earlier work *"*forward searching"



Review the development of your research area

SCOPUS Search Sources Analytics My Alerts My	List My Profile				Circle Chat (2) Help					
Quick Search organic coating Go					Scopus Team					
Scopus: 18,465 More (1,936) Web (214,265)	Patents (620,672)	SelectedSource	s (1,234) Search you	<u>ır library</u>						
Your query: TITLE-ABS-KEY-AUTH(organic coating) Edit Save Save as Alert RRSS										
Refine Results () Limit to X Exclude					Close					
Source Title	Author Name	Year	Document Type	Subject Area						
 Progress in Organic Costings (758) Proceedings of SPIE the International Society for Optical Engineering (532) Thin Solid Films (295) Surface and Coatings Technology (266) Journal of Applied Polymer Science (246) Materials Research Society Symposium Proceedings (242) Journal of Coatings Technology (240) Synthetic Metals (188) Langmuir (175) Journal of Chromatography A (170) Journal of Sol Gel Science and Technology (155) Metal Finishing (152) Electrochimica Acta (147) Applied Physics Letters (147) Sensors and Actuators B Chemical (136) Corrosion Science (136) Journal of Protective Coatings and Linings (126) European Coatings Journal (125) Journal of Materials Science (119) Morem Lessim 	Anon, (134) Deflorian, F. (56) Bierwagen, G.P. (47) Fedrizzi, L. (45) Leidheiser, H. (43) Joseph, R. (42) Soucek, M.D. (39) Rossi, S. (37) Bonora, P.L. (33) Pawliszyn, J. (26) Pilati, F. (25) Cingolani, R. (24) Worsley, D.A. (23) Sanchez, C. (22) McMurray, H.N. (21) Kalendova, A. (21) Marks, T.J. (20) Funke, W. (20) Rie, K.T. (20) De With, G. (20) More Less	2009 (673) 2008 (1,616) 2007 (1,292) 2006 (1,363) 2005 (1,408) 2003 (1,212) 2002 (936) 2001 (769) 1999 (666) 1998 (590) 1997 (636) 1994 (664) 1994 (364) 1994 (364) 1994 (233) 1991 (265) 1990 (198) Morem Lessm	Article (12,437) Conference Paper (3,629) Review (702) Conference Review (151) Article in Press (108) Note (94) Short Survey (88) Report (21) Press Release (17) Book (14) Letter (12) Editorial (11) Business Article (4) Erratum (4) Abstract Report (1) Patent (1) Undefined (1,171) Lessim	Materials Science (9,116) Materials Science (9,116) Engineering (6,010) Physics and Astronomy (3,921) Chemistry (3,760) Chemistal Engineering (3,401) Environmental Science (886) Biochemistry, Genetics and Molec Earth and Planetary Sciences (611 Agricultural and Biological Science Energy (328) Pharmacology, Toxicology and Phe Medicine (199) Computer Science (186) Business, Management and Accou Mathematics (98) Immunology and Microbiology (1) Social Sciences (21) Hotosciplinary (68) Dentistry (27) Arts and Humanities (21) More Less	1800 1600 1400 1200 1000 600 400 1990 1991 1992 1993 1994 1996 1998 2000 2002 2004 2006 2008					
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Add categories Restore original settings Save settings					() Limit to XExclude					
Check the phase in the life-cycle of your research topic. Check the phase in the life-cycle of your research topic. I. Phospholipid monolayer coated microfabricated electrodes to model the Coldrick, Z., Steer Davies, M., Nelson Abstract + Refs View at Publisher Full Text © show Abstract S. In situ electrochemical Scanning Kelvin Probe Blister-Test studies of the de-adhesion kinetics at polymer/zinc oxide/zinc interfaces Grundmeier, G. Abstract + Refs View at Publisher Full Text © show Abstract S. Binuclear aluminum complex as an efficient orange emitter in single-layer electroluminescent devices Liu, X., Xia, H., Mathematical Cold in the full Text © show Abstract										

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Find out what topics are "Hot"



Why publish?

Publishing is one of the necessary steps embedded in the scientific research process.

We should publish:

- To present **new and original results or methods**
- To rationalize (refine or reinterpret) published results
- To review the field or to summarize a particular subject

We should **not publish**:

- Reports of no scientific interest
- Work out of date
- **Duplications** of previously published work
- Incorrect/not acceptable conclusions

You need a GOOD manuscript to present your contributions to the scientific community



Your paper is worthless if no one reads, uses, or cites it



A research study is meaningful only if...

- it is clearly described, so
- someone else can use it in his/her studies
- it arouses other scientists' interest and
- allows others to reproduce the results.

By submitting a manuscript you are basically trying to sell your work to your community...



What makes a good manuscript?

- Contains a scientific message that is clear, useful, and exciting.
- Conveys the authors' thoughts in a logical manner such that the reader arrives at the same conclusions as the author.
- Is constructed in the format that best showcases the authors' material, and written in a style that transmits the message clearly.



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Content is essential!

What makes a good manuscript?

A good manuscript **makes** readers (especially reviewers and editors) **grasp the scientific significance as EASILY as possible.**

- Writing a good manuscript is NOT easy.
 Be prepared to work hard on it.
 - Cherish your own work if you do not take care, why should the journal?
 - There is **no secret recipe for success** just some simple rules, dedication and hard work.
 - Editors and reviewers are all busy scientists, just like you make things easy to save their time!







Decide on the type of the manuscript

- Full articles / Original articles: the most important papers. Often substantial completed pieces of research that are of significance.
- Letters / Rapid Communications/ Short communications: quick and early communication of significant and original advances. Much shorter than full articles (usually strictly limited).
- Review papers / perspectives: summarizing recent developments on a specific topic. Highlighting important points that have previously been reported and introduce no new information. Often submitted on invitation.
- **Self-evaluate your work.** Is it sufficient for a full article? Or are your results so thrilling that they should be shown as soon as possible?

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





Identify the right audience for your paper



- Identify the sector of readership/community for which a paper is meant
- Identify the interest of your audience
 - "Knock-down of mdr-1 activity in transiently transfected HEK cells" in Int'l jrnl. of Pharmaceutics?
- Is your paper of local or international interest?
 - "A bioequivalence study of ibuprofen tablets marketed in Southern Kosovo"



Choose a target journal

- Choose one right journal for your work. DO NOT gamble by scattering your manuscript to many journals. Only submit once!
- Articles in your own references will likely lead you to the right journal.
- Read recent publications (at least go through the abstracts) in each candidate journal. Find out the hot topics, the accepted types of articles, etc.
- Ask yourself the following questions:
 - Is the journal **peer-reviewed**?
 - Who is this journal's audience?
 - How long will it take to see your article in print?
 - Is this a prestigious journal (Impact Factor)?



Choose a target journal

SCOPUS

Search Sources Analytics My Alerts	5 My List	My Profile	B							
Quick Search										
Scopus: 175,096 More., (17,714) Web	(1,305,344)	Patents (121,967) Selecte			edSources (25,118)					
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cefine Results () Limit to XExclude										
Source Title	Author Na	ame	Year		Document Type	Sut				
Blood (8,298)	Broxme	yer, H.E. (313)	2008	(6,729)	Article (127,132)	•				
Bone Marrow Transplantation (4,405)	Storb, R	. (287)	2007	(16,465)	Review (24,423)					
Experimental Hematology (3,503)	Weissm	an, I.L. (237)	2006	(15,596)	Conference Paper (8,500)					
Proceedings of the National Academy of Sciences of the United States of America (2.327)	f Dexter,	т.м. (222)	2005	(14,402)	Letter (3,492)	I				
British Journal of Haematology (2,163)	aves, (C.J. (211)	2004	(12,591)	Editorial (2,699)	1				
Journal of Immunology (1,841)	ioldma	n, J.M. (199)	2003	(11,074)	Short					
Stem Cells (1,740)	ocatelli	, F. (182)	2002	(10,018)	Note (2,562)					
Leukemia (1,715)	F.R. (17	um, 9)	2001	(10,007)	Article in	E				
Journal of Biological Chemistry (1,466)	Takaue	Y. (177)	2000	(7,840)	Press (461)	F				
Brain Research (1,448)	Quesen P.J. (17	berry, 4)	1999	(6,662)	Conference					
Development (1,446)	Nagler,	A. (173)	1998	(6,363)	Review (10)					
Nature (1,328)	🗌 Verfaillie	e, C.M. (173)	1997	(6,130)	Dissertation (7)	۰				
Cancer Research (1,299)	Gratwoh	l, A. (171)	1996	(5,768)	BOOK (3)	E				
Leukemia and Lymphoma (1,251)	Zander,	A.R. (165)	1995	(4,617)	Business Article (2)	- D				
Jurnal of Comparative Neurology (1,210)	Vainche	nker, W. (162)	1994	(4,021)	Press Kelease (2)	1				
Haenatologica (1,201)	Metcalf,	D. (160)	1993	(3,746)	Keport (2)	٤ 🗌				
Developmental Biology (1,033)	Gluckma	an, E. (159)	1992	(3,212)	Less					

•Use your own references

•Check databases to find in what journals most articles on your topic were published



Find out more about your target journal



Is this a prestigious journal?

Other tools of journal evaluation have become available (e.g. in Scopus)





Read the 'Guide for Authors' of the target journal! Again and again!

Apply the Guide for Authors to your manuscript, even to the first draft (text layout, paper citation, nomenclature, figures and table, etc.). It will save your time, and the editor's.





http://www.elsevier.com/wps/find/authorsview.authors/howtosubmitpaper

Editors and Reviewers

More submissions → STRESS for editors and reviewers...



Editors and reviewers are the most precious resource of a journal!

- Editors and reviewers are practicing scientists, even leaders in their fields. They are not professional journal staff – they do journal work on top of their own research, writing and teaching.
- They are busy people who work for journals to contribute to science.
- Editors may receive a small payment, but reviewers are UNPAID.
- Every manuscript takes up their precious time! Nowadays they are working even harder!



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



The general structure of a full article

Supplementary material



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Some special technical aspects of the manuscript

Length of the manuscript:

- 25- 30 pages is the ideal length for a submitted manuscript, including ESSENTIAL data only.
 - Title page
 - Abstract
 - Introduction
 - > Methods
 - Results and Discussion
 - Conclusions
 - > Figures
 - > Tables
 - > References

10-12 pages 1-2 pages 6-8 1-3 20-50 papers

1 paragraph

1.5-2 pages

2-4 pages

 Letters or short communications have a stricter limitation of the length. For example, 3000 words with no more than 5 illustrations.



The Order of Writing

It helps to write in the following order:

- Figures and tables
- Methods, Results and Discussion
- Conclusions and Introduction
- Abstract and title





Language – clear for Editors and reviewers

 If the language prevents editors and reviewers from understanding the scientific content of your work, the possibility of acceptance will be lowered greatly

Complaint from an editor:

"[This] paper fell well below my threshold. I refuse to spend time trying to understand what the author is trying to say. Besides, I really want to send a message that they can't submit garbage to us and expect us to fix it. My rule of thumb is that if there are more than 6 grammatical errors in the abstract, then I don't waste my time carefully reading the rest. "



Seek clarity, objectivity, accuracy, brevity

- Make your **writing scientific**.
- Be careful with unfamiliar words or phrase. Do not just rely on electronic dictionaries or translating software, which may bring out ridiculous results. You should **understand the meaning of every single** word you type in the manuscript.
- Pay attention to the **common problems**.
 - **Consistency** of the sentences
 - Logic of expression
 - Accuracy of the grammar
 - Spelling mistakes and typos



Write direct and short sentences.

- Long sentences confuse readers.
- Short sentences look more professional
- Nowadays, the average length of sentences in scientific writing is about 12-17 words.
- One idea or piece of information per sentence is sufficient.
- Avoid multiple statements in one sentence.

• A bad example

 "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."

Language – Grammar, spelling, etc.

- Have an English expert proof reading your manuscript. At least you should make use of the spelling and grammar checking tool of your computer.
- Practice writing English at any moment you can. Maybe keep records in English during the research?

Avoid:

- Inappropriate use of **passive voice** or dummy clauses
 - e.g., "It has been found that there had been many ..." makes sentences complex.
- Bad structure of sentences with wrongly used conjunctive words or dangling modifiers.
 - e.g., "because..., so...", "Although..., but...", "considering..., it is..."



Language – also in figures !

• Use English throughout the manuscript...



• Make sure that the right pictures are at the right places and correctly numbered



The general structure of a full article

Supplementary material



ELSEVIER

1. Title – what is the paper broadly about?

- Your opportunity to attract the reader's attention.
 - Remember: readers are the potential authors who will cite your article

Keep it informative and concise.

- Reviewers will check whether the title is specific and whether it reflects the content of the manuscript.
- Editors hate titles that make no sense or fail to represent the subject matter adequately.
- The title must be accurate for use in indexing systems and databases



1. Title – what to avoid?

- Avoid technical jargon and abbreviations if possible.
 - You wish to have a readership as large as possible, right?
- Delete *trivial phrases* e.g. "Notes on ..." or "A study of..."
- Titles that end with a question mark are seldom acceptable.



2. Abstract – tell the prospective readers what you did and what were the important findings.

- This is the advertisement of your article. Make it interesting, and easy to be understood without reading the whole article.
 - Avoid using jargon and uncommon abbreviations if possible.
- You must be accurate and specific!
 - Use words which reflect the precise meaning
- A clear abstract will strongly influence whether or not your work is further considered.
- Keep it as BRIEF as possible!!!





3. Keywords – mainly used for indexing and searching

- It is the label of your manuscript.
 - Avoid words with a broad meaning, but do neither use too narrow terms (get into the Google groove...)
- Only abbreviations firmly established in the field are eligible.
 - > e.g. DNA



- Check the Guide for Authors!
 - Number, label, definition, thesaurus, range, and other special requests



4. Introduction – to convince readers that you clearly know why your work is useful

- What is the problem? Are there any existing solutions? What are their main limitations? And what do you hope to achieve?
- Provide a **perspective** consistent with the nature of the journal.
- Never use more words than necessary.
 - Don't make this section into a history lesson.



- Do not mix introduction with results, discussion, and conclusion.
 - Always keep them separate to ensure that the manuscript flows logically from one section to the next.
- Introduce the **main scientific publications** on which your work is based.
 - Cite a couple of original and important works, including recent review articles
- Avoid too many references irrelevant to the work, or inappropriate judgments on your own achievements.



5. Methods – how was the problem studied

- Include detailed information, so that a knowledgeable reader can reproduce the experiment.
- However, use references and <u>Supplementary Materials</u> to indicate the previously published procedures.
 - Do not repeat the details of established methods. A general summary -plus reference- is sufficient.
- Reviewers will criticize incomplete or incorrect descriptions.
 - > and may even recommend rejection



6. Results - What have you found?

Appearance counts!

- Un-crowded plots: 3 or 4 data sets per figure; well-selected scales; appropriate axis label size; symbols clear to read and data sets easy to discriminate.
- Each photograph must have a scale marker of professional quality on one corner.
- Use color ONLY when necessary. If different line styles can clarify the meaning, never use colors or other thrilling effects.

100 90

80

70

60

50

40

30 20

50

Total lipid concentration (µmol/ml)

Entrapment efficiency

- Color needs to be visible and distinguishable when printed out in black & white.
- Do not include long boring tables!



7. Discussion – What the results mean

- > Here you get the chance to SELL your data!
 - > Many manuscripts are rejected because the Discussion is weak
- > Make the Discussion corresponding to the Results.
 - But do not reiterate the results
- > You need to compare the published results with yours.
 - Do NOT ignore work in disagreement with yours confront it and convince the reader that you are correct or better



7. Discussion - Watch out for the following:

Statements that go beyond what the results can support

<u>Unspecific expressions</u> such as "higher temperature", "at a lower rate".
 <u>Quantitative descriptions are always preferred.</u>

Sudden introduction of new terms or ideas

Speculations on possible interpretations are allowed. But these should be based on something, rather than pure imagination.





8. Conclusions – How the work advances the field from the present state of knowledge

In summary, we have demonstrated that the mercaptoacetamide-based HDACIs possess favorable solubility, lipophilicity, permeability and plasma stability features as compared to recently FDA approved drug Vorinostat (SAHA). Based on these findings, we assume that these compounds could sufficiently be absorbed by the intestinal tract. However, further studies are needed in order to determine the pharmacokinetic disposition of these compounds.



8. Conclusions – How the work advances the field from the present state of knowledge

Without clear Conclusions, reviewers and readers will find it difficult to judge the work, and whether or not it merits publication in the journal.

Do NOT repeat the Abstract, or just list experimental results.



- Provide a clear scientific justification for your work, and indicate possible applications and extensions, if appropriate.
 - You can also suggest future experiments, and/or point out those that they are underway.





9. References

Typically, there are more mistakes in the references than any other part of the manuscript.

- Cite the main scientific publications on which your work is based
- Do not inflate the manuscript with too many references it doesn't make it a better manuscript!
- Avoid excessive self-citations
- Avoid excessive citations of publications from the same region



10. Cover letter – your chance to speak to the Editor directly

- View it as a job application letter; you want to "sell" your work...
- WHY did you submit the manuscript to THIS journal?
 - Do not summarize your manuscript, or repeat the abstract
- Mention special requirements, e.g. *if you do* not wish your manuscript to be reviewed by certain reviewers.
- Albeit that most editors will not reject a manuscript only because the cover letter is bad, a good cover letter may accelerate the editorial process of your paper.





Suggest potential reviewers

- Your suggestions will help the Editor to pass your manuscript to the review stage more efficiently.
- You can easily find potential reviewers and their contact details by mentioning authors 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.
- Generally you are requested to provide
 3-6 potential reviewers.



Peer Reviewer Searching - example

Hub ScienceDirect Scopus						Register Login ⊞ Go to Brought to you by The Scopus Team) SciVal Suit				
Search Sources Analytics My alerts My list My settings Live Chat Hel											
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 Journal of Biological Chemistry (40,970) Proceedings of the National Academy of Sciences of the United States of America (17,572) Biochemistry (12,818) Nucleic Acids Research (11,884) Journal of Bacteriology (11,021) 	Vokoyama, S. (262) Huber, R. (252) Gilbert, D.J. (231) Shuman, S. (214) Jenkins, N.A. (211)	2010 (13,143) 2009 (22,564) 2008 (24,560) 2007 (25,243) 2006 (25,502)		University of Tokyo (8,535) Harvard Medical School (5,220) Inserm (5,086) CNRS Centre National de la Recherche Scientifique (4,871) University of California, San Francisco (4,736)	Biochemistry, Genetics and Molecular Biology (385,928) Immunology and Microbiology (137,291) Medicine (120,209) Agricultural and Biological Sciences (55,057) Multidisciplinary (25,214)		28)				
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Document results: 574,442 Show all abstracts						Go to page: 1 of 28723	Go Next >				
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1 A molecular systematic framework for equine strongyles based View at publisher Full Text I Full Text	nce data	Hung, GC. Gasser, R.E	, Chilton, N.B., Beveridge, I., B.	2000	International Journal for Parasitology 30 (1), pp. 95-103	20					
2 Phylogenetic position of phylum nemertini, inferred from 18 test of morphological character homology	data as a	Turbeville, J	.M., Field, K.G., Raff, R.A.	1992	Molecular Biology and Evolution 9 (2), pp. 235-249	84					
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3 Molecular BioComputing Suite: A word processor Add-In for the analysis and manipulation of nucleic acid and protein sequence data				Studer, E., Miserez, A.R.	2001	<i>BioTechniques</i> 31 (6), pp. 1306-1313	6				
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- present the article at a meeting or conference and give copies to the meeting delegates
- include journal articles, in full or part, in the author's thesis or dissertation
- extend the article into book length format, or re-use portions in other works with full acknowledgement ot its original publication in the journal

Example for e-offprint

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Boundary renormalisation group flows or unitary superconformal minimal models
Márton Kormos
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In this paper we investigate renormalisation group flows of the preparation of motion of the degenerated by the boundary perturbing field $\tilde{O}_{-1/2}\Phi_{-1/2}$ before the present of the flow state (Cov event) Space Approach analysis the energing paraties of the flow state of perturbins. According to the results, this pattern can be narrowed by the of the base calls, she pattern can be materially existed to those calls for which the two real according to the results. Note that the state of the pattern can be materially existed to those calls for which the results in greaterisms. According to the results, the pattern can be materially existed to those calls for which the results in greaterisms are uncertain. ~ 2006 Babeler BA valid gibts are gibt.

I. Introduction

Abstract

Conformal field theory is with holinadary atting of much interest recently, due to their relevance is condused matter to sites, e.g., in the Kore problem [1] and their application in describing behaviors in site of the problem of the problem (1) and their applications in describing by a boundary per thrute field corresponds to tachyon condensation and exploring these fores can help in much analog the descript applications.

Many paper depends in the location about the boundary perturbations and the converposiing renormal mini theory of unity syminimal models [4–8]. Up to now, a systemutic charting of the boundar theory of the unity a paper approximation of the location of the boundar perturbative tool is necessaria. We choose of the masses Conformal Space Approach (TSAA) originally reposed in the paper [9] and a pixel to boundary problems in [10] and [7]. The essence of the TCSA is to object first the distribution of the system on a subspace of the infinite dimensional Hilbert space.

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RETRACTED: Matching pursuit-based approach for

N. Ruiz-Reyes^{a, 📝,} 🖂, P. Vera-Candeas^{a, 🖂}, J. Curpián-Alonso^{a, 🖂}, J.C. Cueva

Available online 24 August 2005.

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

Reason This article is virtually identical to the previously published article "N algorithm for SNR improvement in ultrasonic NDT", *Independent Nondestru International*, volume 38 (2005) 453 – 458 authored by N. Ruiz-Reyes, P. Vera Mata-Campos and J.C. Cuevas-Martínez. 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 of taminated with grain noise in highly scattering materials [11,12], as an alternative to the W technique, the computational cost of ie BP algorithm being the main drawback

In this paper, we propose a codel mothing pursuit-based signal processic-time to four mproving SNR in ultrascue NDT is highly scattering materials, such as the land controlles. Matching pussifi is used instead of BP to reduce the complexity. During its iteration mature, the method is fast enough to be real-time implemented. The performance of the proposed method has been evaluated university of the performance SNR as Rein is lower than 0dB (the level of echoematic an increastructures is above the level of an echocs).

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 q[n] chosen from an over-complete dictionary. Let H be a Hilbert space. We define the over-complete dictionary as a family $D = \{g_i; i = 0, 1, ..., L\}$ of vectors in H, such as $||g_j|| = 1$.

The problem of choosing functions $q_i[n]$ that best approximate the analysed signal x[w] is computationally very complex. Matching pursuit is an iterative algorithm that offers sub-optimal solutions for decomposing sig expansion functions chosen rom a da pears. where l^2 norm is used as 2e a netric coximation because of its mathemy cal conience. When a well-designed dictionary is used in sing pursuit, the non-linea solure of the algorithm leads to compact ad ave. a mode

In each other of the interfere procedure, vector $g_i[n]$ whice give the largest puer product with the analysed signal is become. The contribution of this vector when subth had from the signal and the process is repeated on the residual. At the wth intration the bridge is

> m = 0, $[n] + \alpha_{dmidlow}[n], \quad m \neq 0,$ (1)

where $a_{(m)}$ is the weight associated to optimum atom $g_{(m)}[n]$ at the with iteration.

The weight q^{μ} associated to each atom $g_{i}[n] \in D$ at the wth iteration is introduced to compute all the inner products with the scidual $r^{\mu}[n]$:

$$z_i^m = \frac{(r^m[n], g_i[n])}{(g_i[n], g_i[n])} = \frac{(r^m[n], g_i[n])}{\|g_i[n]\|^2}$$

= $\psi^m[n], g_i[n]).$

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

 $g_{Un}[n] = \arg\min_{n \in D} \|r^{m+1}[n]\|^2$

X[t]

$$= \arg \max_{i \neq j} |a_i^m|^2 = \arg \max_{i \neq j} |a_i^m|.$$
 (3)

The computation of correlations $(r^{\mu}[n], g_{\mu}[n])$ for all vectors $g_{\mu}[n]$ 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:

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\begin{split} (r^{m+1}[n],g[n]) &= (r^{m}[n],g_{i}[n]) \\ &\quad - \alpha_{i(m)}(g_{i(m)}[n],g_{i}[n]) \,. \end{split}
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Questions? Thanks!

