

Riset Berdampak Tinggi (High Citation)



“I think it's more important that you publish good quality research ..”

“It's much more important to judge someone's work and to see that they're building upon their previous studies and keep moving the field forward. I think those are more important goals for young scientists ...”

Brian Kobilka, Nobel Laureate in Chemistry, 2012



Doing research, obtaining data





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	Publication	h5-index	h5-median
1.	Advanced Materials	294	406
2.	Advanced Energy Materials	206	267
3.	Energy & Environmental Science	202	306
4.	ACS Nano		
5.	Advanced Functional Materials		
6.	Nature Materials		
7.	Nano Letters		
8.	ACS Applied Materials & Interfaces		
9.	Journal of Materials Chemistry A		
10.	Nano Energy		

Categories > Business, Economics & Management > Economics ▾

	Publication	h5-index	h5-median
1.	American Economic Review	158	246
2.	The Quarterly Journal of Economics	110	226
3.	The Review of Financial Studies	108	167
4.	Journal of Political Economy	102	180
5.	The Journal of Finance	99	182
6.	Journal of Economic Perspectives	86	157
7.	Econometrica	83	140
8.	The Review of Economic Studies	81	125
9.	Review of Economics and Statistics	74	110
10.	The Economic Journal	71	112

How to Get an In-depth Understanding State of the Art Research

**Literature
Review**

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**Master table-
compiling the
review**

SotA, Recent Advances, Progress, etc.

Google Scholar "state of the art" steel corrosion

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[HTML] **Corrosion inhibitors for steel in concrete: State-of-the-art report**
[TA Söylev](#), MG Richardson - Construction and Building Materials, 2008 - Elsevier
This **state-of-the-art** report is focused on **corrosion** inhibitors used in concrete and is based on published studies in the last decade. Emphasis was given to the most commonly used inhibitors such as aminoalcohols (AMAs), calcium nitrites (CN) and sodium ...
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[HTML] **The influence of microstructure and chemical composition of carbon and low alloy steels in CO2 corrosion. A state-of-the-art appraisal**
DA Lopez, T Perez, SN Simison - Materials & Design, 2003 - Elsevier
The importance of chemical composition and microstructure on CO₂ **corrosion** of carbon and low alloy **steels** has been widely recognized, but different aspects are still uncertain and contradictory results can be found in the literature. This is mainly due to the complexity of the ...

"state of the art" hydrogen embrittlement

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[BOOK] Hydrogen embrittlement: prevention and control

L Raymond - 1988 - books.google.com

... the purposes for which it was organized, provides the reader with a **state-of-the-art** review with ... the sensitivity of these parts to the environment relative to any **embrittling** factors that ... The most prominent experts in the field of **hydrogen embrittlement** have contributed to this STP ...

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[HTML] Understanding and mitigating hydrogen embrittlement of steels: a review of experimental, modelling and design progress from atomistic to continuum

[O Barrera](#), [D Bombac](#), [Y Chen](#), TD Daff... - Journal of materials ..., 2018 - Springer

... a large research effort in attempting to understand the mechanisms of failure and in developing potential mitigating solutions, **hydrogen embrittlement** mechanisms are ... The aim of this paper is to provide a detailed review up to the current **state of the art** on the effect of **hydrogen** ...

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"recent advances" hydrogen embrittlement

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Recent advances on hydrogen embrittlement of structural materials
[M Dadfarinia](#), [A Nagao](#), [S Wang](#), [ML Martin](#)... - International Journal of ..., 2015 - Springer
This paper presents a critical review of current understanding of the effect of **hydrogen** on fracture and fatigue of metals and alloys. First, microstructures found immediately beneath **hydrogen**-induced fracture surfaces in various materials are presented. Then, recent ...
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Bioactive Materials, 30 September 2020, ...
Humayun Kabir, Khurram Munir, ... Yuncang Li

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Recent research **progress** in solid state friction-stir welding of aluminium–magnesium **alloys**: a critical review
Journal of Materials Research and Technology, 5 February 2020, ...
Virendra Pratap Singh, Surendra Kumar Patel, ... Basil Kuriachen

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Important Points

The one factor that you do have control over is the quality of the writing.

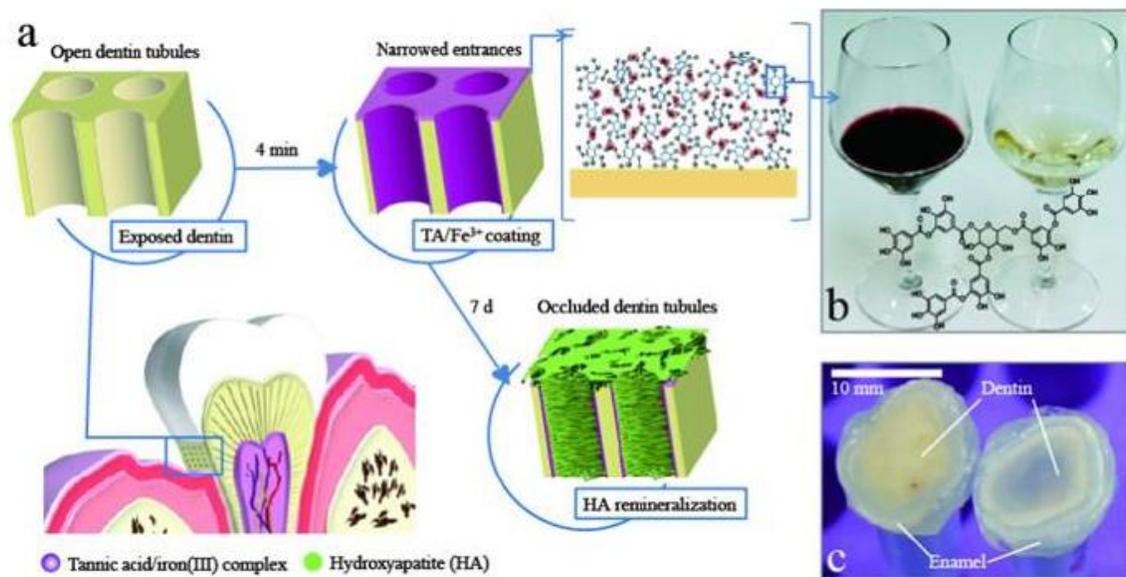
More specifically, your writing must convince the editor and reviewers that your paper is publication-worthy.

- Introduction: state a clear question, objective, or hypothesis and explain why it is important.
- Methods: must be detailed and complete, leaving no doubt in the readers' minds that you conducted a thorough and rigorous study.
- The discussion: show a sophisticated and deep understanding of the topic and provide the reader with a convincing interpretation of the data.

Your writing skills can greatly influence whether your paper is accepted or rejected by a journal. You may be a brilliant researcher with important findings, but if you cannot communicate your work effectively, your paper will have a lot of difficulty passing peer-review. And if you are aiming for a high-impact journal, the quality of your writing will be a key means of convincing the journal that your paper meets their high standards.

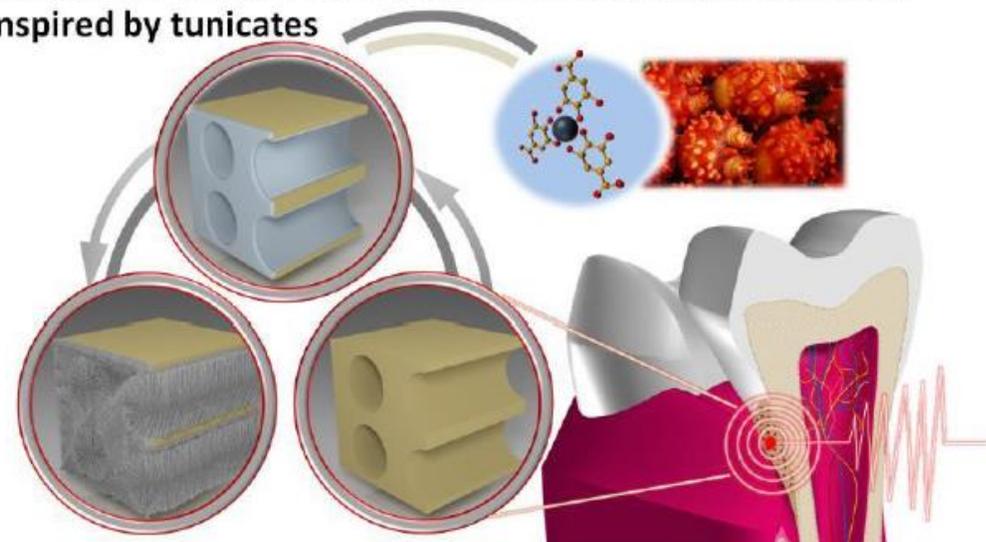


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Internal Peer-review

1. Supervisors
2. Co-authors
3. Colleagues
4. Etc.



Take Home Messages

- Read the (top) journals & immerse yourself in the scientific papers
- Keep updated with emerging topics
- Time-management (research timing)
- Do internal peer-review
- Keep practicing (**10,000 hours rule**)

