

# IOP Publishing | Academy

## Top tips on writing a paper and getting it published

Gabriel Shen





## Topics covered in this talk

- Introduction to IOP and IOP journals
- Why publish at all?
- Choosing your journal
- Writing your paper
- Top 10 tips for getting published
- Peer review process
- Publication ethics
- Post-acceptance
- Post-publication



# Introduction to IOP

## About the Institute of Physics



- A leading scientific society promoting physics and physicists since 1874
- Worldwide membership of 50,000+
- Headquarters in London, UK
- Mission to advance **physics research, application and education** globally
- Engages with policymakers, schools, universities, and the general public to develop greater awareness and understanding of physics
- Most funding come from IOP Publishing
- **[iop.org](http://iop.org)**

## About IOP Publishing



- The wholly-owned publishing subsidiary of the Institute of Physics
- All the money we make funds IOP activities
- A society publisher embedded in the community we serve
- Mission: to deliver **impact, recognition and value** to the scientific community
- Over 300 staff worldwide (HQ in Bristol, UK)
- Publisher of >80 physical science journals
- eBooks programme
- Award-winning science journalism (including *Physics World*)
- **[iopscience.iop.org](http://iopscience.iop.org)**



## IOP around the world



## IOP journals

- We publish more than 80 titles, many for partner organisations/societies
- Our **Journal of Physics** series is now 50 years old!
- Our publishing portfolio focuses on the following areas:
  - Applied Physics 应用物理
  - Astronomy and Astrophysics 天文学和天体物理学
  - Atomic, Molecular and Optical Physics 原子、分子和光物理
  - Condensed Matter 凝聚态物质
  - Engineering/Masurement Science 工程/测量科学
  - Environmental Science 环境科学
  - High Energy and Nuclear Physics 高能物理与核物理
  - Materials Science 材料科学
  - Mathematical Physics 数学物理学
  - Medical and Biological Physics/Engineering 医学和生物物理学/工程学
  - Physics Education 物理学教育
  - Plasma Physics 等离子体物理

## Why publish at all?

- To share your knowledge (take field forward)
- To validate your research
- To help your career and reputation
- Publishing a paper in a **peer-reviewed reputable academic journal** is the universal way in which scientists communicate their research

*“Connaître, découvrir, communiquer—telle est, au fond, notre honorable destinée”*

**“To get to know, to discover, to publish—  
this is the destiny of a scientist”**

— François Arago, French physicist and astronomer

*From 'De L'Utilité des Pensions', Œuvres complètes de François Arago (1855), Vol. 3, 621.*





# Choosing Your Journal

## Deciding on the right journal for your paper



- Not a decision to take lightly
- Have to work with someone you trust (not all publishers/journals can be trusted!)
- Many considerations affecting your choice (scope, reputation, visibility, speed etc)
- Affects how you put together your paper: decide **before even starting on your paper!**
- IOP mission to make it as easy as possible for you to publish your work with us
- Options to meet the needs of authors at every stage of their career (back-up journal)

## Deciding on the right journal for your paper



- Considerations:
  - Audience (your peers?)
  - Scope (niche vs broad scope?)
  - Editorial Board (recognise?)
  - Reputation
  - **Impact/visibility**
  - Quality standards/criteria
  - Likelihood of acceptance
  - Speed of publication
  - **Open access or subscription model**
  - Costs (pages/figures/APCs etc.)
- “Think, Check, Submit!” [thinkchecksubmit.org](http://thinkchecksubmit.org)

## Deciding on the right journal for your paper: Impact/visibility

- Measure of “quality”: Impact Factor

Impact Factor (2017) =  $\frac{\text{No of citations in 2017 to articles published in 2015 and 2016}}{\text{Number of articles published in 2015 and 2016}}$

e.g. *Journal X* publishes **175** articles in 2015 and **212** in 2016

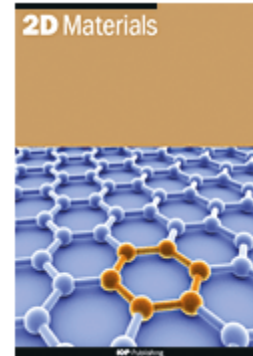
In 2017 it receives **943** citations to these articles (from across the entire literature)

**943 / (175 + 212) = 2.437** Impact Factor for 2017

- Measure of utility: download levels
- Other metrics (social media, blogs etc)



IF = 14.311



IF = 6.937



IF = 5.533



IF = 3.786



IF = 1.068



IF = 2.649

## Deciding on the right journal for your paper: Open Access

- Traditionally journals operate the **subscription model**
- (Usually) free to publish, libraries pay for access
- Authors are generally allowed to self-archive their accepted MS on a public repository (embargo period?) – **Green Open Access**
  
- Increase in number of pure **Gold Open Access** journals
- Final published article is made freely available (in perpetuity) upon payment of an article processing charge (APC)
- APC paid to the publisher by the author/funder
- Published under a CC-BY licence, allowing reuse
  
- Many journals (all IOP's subscription journals) are now "hybrid" – option of fully OA article in a subscription journal

## Once you've decided on your journal you will need to consider:

- The journal's submission requirements:
  - File formats and layout of paper
  - Article info (article type etc)
  - Author details (including co-authors), e.g. ORCID
  - Keywords for your article
  - Referee suggestions
  - Funders
  - Charges (OA, page charges?)
  - Other information (cover letter)
  - Supplementary files, e.g. data
  - Video files
  - Anonymization? (if required)

**TOP TIP: Check the journal guidelines!**

## IOP's submission requirements

- IOP aims to make the submission process as simple as possible for authors:
  - No set submission format for your manuscript
  - Any relevant supplementary data allowed
  - Can upload a file direct from the arXiv
  - **PDF only submission.** Source files (TeX/Word) only required after revision
  - Send us your compressed and archived (zip) files
- Every journal should have full information on its homepage

**TOP TIP: Check the general Author guidelines!**  
(<https://publishingsupport.iopscience.iop.org/>)





## 2D Materials

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### About the journal

- [Scope](#)
- [Why should you publish in 2DM?](#)
- [Article types](#)
- [Special requirements](#)
- [Frequency](#)
- [Peer review](#)
- [Ethical policy](#)
- [Research data](#)
- [Open access information](#)
- [Copyright and permissions](#)
- [Abstracted in](#)

#### Scope

*2D Materials™* (2DM) aims to curate the most significant and cutting-edge research being undertaken in the field of two-dimensional materials science and engineering. Serving an expanding multidisciplinary community of researchers and technologists, our goal is to develop a selective journal dedicated to bringing together the most important new results and perspectives from across the discipline. Submissions should be essential reading for a particular sub-field and should also be of multidisciplinary interest to the wider community, with the expectation that published work will have significant impact.

Submissions that do not meet 2DM's strict acceptance criteria may be transferred at the discretion of the journal's editors (with author approval) to other relevant journals in the IOP portfolio, for further consideration.

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Books	3. How to submit your journal article	>
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IOP Publishing Academy	6. Writing and submitting your revised article	>
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	8. After publication of your article	>

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## Electronic Structure



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### JOURNAL HISTORY

2019-present *Electronic Structure*  
doi:10.1088/issn.2516-1075  
Online ISSN: 2516-1075



"We are dedicated to providing a major new journal for the electronic structure community, bridging physics, chemistry, materials science, and biology."

**Bert de Jong** Founding Editor-in-Chief (left)

**Risto Nieminen** Founding Editor-in-Chief (right)

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ScholarOne Manuscripts™ Kim Eggleton ▾ Instructions, Forms & Policies Help Log Out

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CHOICE	TYPE	DESCRIPTION
<input type="radio"/>	<b>Paper</b>	Reports of high-quality original research with conclusions representing a significant advance in the field.
<input type="radio"/>	<b>Letter</b>	Outstanding concise articles, reporting important, new and timely developments. These articles should be deserving of priority review.
<input type="radio"/>	<b>Special Issue Article</b>	Invited articles which will form a special collection of papers on a specific theme.
<input type="radio"/>	<b>Topical Review</b>	Written by leading researchers in their fields, these articles present the background to and overview of a particular field, and the current state of the art. Topical review articles are normally invited by the Editorial Board.
<input type="radio"/>	<b>Tutorial</b>	Background knowledge for an audience unfamiliar with the subject. Aimed at young researchers or more experienced researchers moving into a new field, tutorials give an introduction to the topic and are more didactic than a review.



# Writing Your Paper

## Writing Your Paper



- Before you start:
  - Assess your main results – are they **novel and important** enough? Do they fill a gap in the research literature?
  - Consider what your choice of journal requires
  - Decide on the **key message** of your paper
  - Think about the story you are trying to tell
  - **Prepare an outline/plan**: main headings, topics

## Writing Your Paper



- Structure should include:
  - Title 标题
  - Abstract 摘要
  - Introduction 介绍
  - Methods 研究方法
  - Results 研究结果
  - Discussion 讨论
  - Conclusion 结论
  - Acknowledgments 致谢
  - References 参考资料
  - Figures 图表
- Optional extra:
  - Supplementary material 补充材料

## Writing Your Paper



- The **introduction** should:
  - Establishes the **background** to your study
  - Describe the **main goals** and advances
  - Give an overview of methods
  - Set the work in the **context** of previous research
  - Cite all **relevant** references
- **Methods** need to:
  - Give enough information about what you did to allow **reproduction** of your results



## Writing Your Paper



- **Results and discussion** need to:
  - State the **main** findings/results
  - Show the **significance and impact** of your results
  - **Compare** results with other published work
  - Discuss the **implications and applications**
- Your **conclusion** needs to:
  - **Summarize** your major points
  - **Highlight** the novelty and significance of your work
  - Include your **plans** for future work

## Writing Your Paper

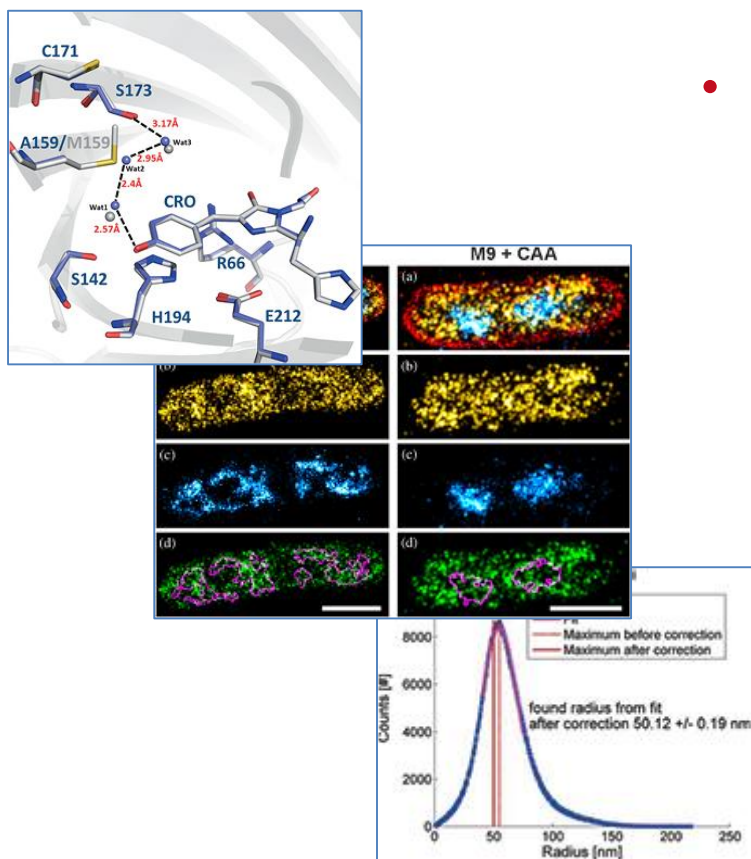
- **Acknowledgements:**
  - **Must** recognize the **contribution of funders** or other assistance
  - Declare any **ethical approval** for use of animals, stem cell etc.
- **References:**
  - Cite the **right** references (relevant to the work; what you have built on)
  - Original works both historical and recent
  - Check for **accuracy**
  - Follow the reference **style** of the journal; if there isn't one, just be consistent



### References

- [1] Acharyya D, Hazra A and Bhattacharyya P 2014 A journey towards reliability improvement of TiO<sub>2</sub> based resistive random access memory: a review *Microelectron. Reliab.* **54** 541–60
- [2] Balatti S, Ambrogio S, Wang Z, Sillescu S, Calderoni A, Ramaswamy N and Ielmini D 2014 Pulsed cycling operation and endurance failure of metal-oxide resistive (RRAM) *Proc. IEEE IEDM (San Francisco, CA)* pp 359–62
- [3] Chen A B K, Choi B J, Yang X and Chen I 2012 A parallel circuit model for multi-state resistive-switching random access memory *Adv. Funct. Mater.* **22** 546–54
- [4] Kwon D *et al* 2010 Atomic structure of conducting nanofilaments in TiO<sub>2</sub> resistive switching memory *Nat. Nanotechnol.* **5** 148–53
- [5] Sun H, Liu Q, Li C, Long S, Lv H, Bi C, Huo Z, Li L and Liu M 2014 Memory switching: direct observation of conversion between threshold switching and memory switching induced by conductive filament morphology *Adv. Funct. Mater.* **24** 5679–86
- [6] Kwon J, Sharma A A, Bain J A and Picard Y N 2015 Oxygen vacancy creation, drift, and aggregation in TiO<sub>2</sub>-based resistive switches at low temperature and voltage *Adv. Funct. Mater.* **25** 2876–83
- [7] Aoki Y, Wiemann C, Feyrer V, Kim H, Schneider C M, Ill-yoo H and Martin M 2014 Bulk mixed ion electron conduction in amorphous gallium oxide causes memristive behaviour *Nat. Commun.* **5** 3473
- [8] Calka P *et al* 2013 Chemical and structural properties of conducting nanofilaments in TiN/HfO<sub>2</sub>-based resistive switching structures *Nanotechnology* **24** 085706
- [9] Park G-S *et al* 2013 *In situ* observation of filamentary conducting channels in an asymmetric Ta<sub>2</sub>O<sub>5-x</sub>/TaO<sub>2-x</sub> bilayer structure *Nat. Commun.* **4** 2382
- sandwich structures of Ag-SiO<sub>2</sub>/BaO-Ag *J. Non-Cryst. Solids* **20** 25–42
- [19] Emmer I 1974 Conducting filaments and voltage-controlled negative resistance in Al-Al<sub>2</sub>O<sub>3</sub>-Au structures with amorphous dielectric *Thin Solid Films* **20** 43–52
- [20] Prodromakis T, Toumazou C and Chua L 2012 Two centuries of memristors *Nat. Mater.* **11** 478–81
- [21] Chua L 1971 Memristor—the missing circuit element *IEEE Trans. Circuit Theory* **CT-18** 507–19
- [22] Trapatseli M, Carta D, Regoutz A, Khatat A, Serb A, Gupta I and Prodromakis T 2015 Conductive atomic force microscopy investigation of switching thresholds in titanium dioxide thin films *J. Phys. Chem. C* **119** 11958–64
- [23] Alam M A, Member S, Weir B E and Silverman P J 2002 A study of soft and hard breakdown: Part I. Analysis of statistical percolation conductance *IEEE Trans. Electron Devices* **49** 232–8
- [24] Lee S B, Kwon D, Kim K, Yoo H K, Sim S, Kim M and Kahng B 2012 Avoiding fatal damage to the top electrodes when forming unipolar resistance switching in nano-thick material systems *J. Phys. D: Appl. Phys.* **45** 255101
- [25] Huang J J, Kuo C W, Chang W C and Hou T H 2010 Transition of stable rectification to resistive-switching in Ti/TiO<sub>2</sub>/Pt oxide diode *Appl. Phys. Lett.* **96** 2–4
- [26] Sztok K, Rogala M, Speier W, Klusek Z, Besmehn A and Waser R 2011 TiO<sub>2</sub>—a prototypical memristive material *Nanotechnology* **22** 254001
- [27] Carta D, Hitchcock A H, Guttmann P, Regoutz A, Khatat A, Serb A, Gupta I and Prodromakis T 2016 Spatially resolved TiO<sub>2</sub> phases in switched RRAM devices using soft x-ray spectroscopy *Scientific Reports* **6** 21525
- [28] Guttmann P, Bittencourt C, Rehbein S, Umek P, Ke X, Tendeloo G, Van, Ewels C P and Schneider G 2012 Nanoscale spectroscopy with polarized x-rays by NEXAFS-TXM *Nat. Photonics* **6** 25–9

## Writing Your Paper



- **Figures, tables, diagrams, charts:**
  - Representative, **clear**, well designed
  - Understandable in black and white
  - Use caption to ensure figures are **self-contained**. Include key terms and avoid acronyms if possible.

**TOP TIP** – consider how the figures could be used post-publication

- Possible journal cover image
- To illustrate a news item
- On Twitter, Facebook, blog
- Posters and marketing materials

## Writing Your Paper



- **Title :**
  - The **most visible** part of your paper
  - Concise yet informative; draws attention of the reader
  - Easily **discoverable** via a Google search?

Do	Don't
Keep it simple	Be ambiguous
Be clear and descriptive	Use phrases or “jokes” that may not translate
Use key terms	Use acronyms

## Writing Your Paper

### X-ray spectromicroscopy investigation of soft and hard breakdown in RRAM devices

D Carta, P Guttman, A Regoutz, A Khiat, A Serb, I Gupta, A Mehonio, M Buokwell, S Hudziak, A J Kenyon and T Prodromakis

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Resistive random access memory (RRAM) is considered an attractive candidate for next generation memory devices due to its competitive scalability, low-power operation and high switching speed. The technology however, still faces several challenges that overall prohibit its industrial translation, such as low yields, large switching variability and ultimately hard breakdown due to long-term operation or high-voltage biasing. The latter issue is of particular interest, because it ultimately leads to device failure. In this work, we have investigated the physicochemical changes that occur within RRAM devices as a consequence of soft and hard breakdown by combining full-field transmission x-ray microscopy with soft x-ray spectroscopic analysis performed on lamella samples. The high lateral resolution of this technique (down to 25 nm) allows the investigation of localized nanometric areas underneath permanent damage of the metal top electrode. Results show that devices after hard breakdown present discontinuity in the active layer, Pt inclusions and the formation of crystalline phases such as rutile, which indicates that the temperature increased locally up to 1000 K.

doi:10.1088/0957-4484/27/34/345705 [References](#)

- **Abstract:**
  - Your shop window!
  - **Summarises whole paper** into one paragraph (<300 words)
  - Should include your key result: **What did you achieve?**

Do	Don't
Include key words and phrases	Copy your introduction
Be clear about what makes this paper worth reading	Use jargon, undefined acronyms or words not commonly used
Summarise aims, methodology and findings	Exaggerate or mislead



## **The climate mitigation gap: education and government recommendations miss the most effective individual actions**

## The climate mitigation gap: education and government recommendations miss the most effective individual actions

- Begins with a clear description of the scope of the paper and its aims.

Current anthropogenic climate change is the result of greenhouse gas accumulation in the atmosphere, which records the aggregation of billions of individual decisions. Here we consider a broad range of individual lifestyle choices and calculate their potential to reduce greenhouse gas emissions in developed countries, based on 148 scenarios from 39 sources. We recommend four widely applicable high-impact (i.e. low emissions) actions with the potential to contribute to systemic change and substantially reduce annual personal emissions: having one fewer child (an average for developed countries of 58.6 tonnes CO<sub>2</sub>-equivalent (tCO<sub>2</sub>e) emission reductions per year), living car-free (2.4 tCO<sub>2</sub>e saved per year), avoiding airplane travel (1.6 tCO<sub>2</sub>e saved per roundtrip transatlantic flight) and eating a plant-based diet (0.8 tCO<sub>2</sub>e saved per year).

## The climate mitigation gap: education and government recommendations miss the most effective individual actions

- Plenty of important keywords in the first few sentences e.g. “anthropogenic”, “climate change”, “greenhouse gases”, “lifestyle choices”.

Current anthropogenic climate change is the result of greenhouse gas accumulation in the atmosphere, which records the aggregation of billions of individual decisions. Here we consider a broad range of individual lifestyle choices and calculate their potential to reduce greenhouse gas emissions in developed countries, based on 148 scenarios from 39 sources. We recommend four widely applicable high-impact (i.e. low emissions) actions with the potential to contribute to systemic change and substantially reduce annual personal emissions: having one fewer child (an average for developed countries of 58.6 tonnes CO<sub>2</sub>-equivalent (tCO<sub>2</sub>e) emission reductions per year), living car-free (2.4 tCO<sub>2</sub>e saved per year), avoiding airplane travel (1.6 tCO<sub>2</sub>e saved per roundtrip transatlantic flight) and eating a plant-based diet (0.8 tCO<sub>2</sub>e saved per year).



## The climate mitigation gap: education and government recommendations miss the most effective individual actions

- Contains good discussion of the key results (but doesn't mention Methods used)...

Current anthropogenic climate change is the result of greenhouse gas accumulation in the atmosphere, which records the aggregation of billions of individual decisions. Here we consider a broad range of individual lifestyle choices and calculate their potential to reduce greenhouse gas emissions in developed countries, based on 148 scenarios from 39 sources. We recommend four widely applicable high-impact (i.e. low emissions) actions with the potential to contribute to systemic change and substantially reduce annual personal emissions: having one fewer child (an average for developed countries of 58.6 tonnes CO<sub>2</sub>-equivalent (tCO<sub>2</sub>e) emission reductions per year), living car-free (2.4 tCO<sub>2</sub>e saved per year), avoiding airplane travel (1.6 tCO<sub>2</sub>e saved per roundtrip transatlantic flight) and eating a plant-based diet (0.8 tCO<sub>2</sub>e saved per year). These actions have much greater potential to reduce emissions than commonly promoted strategies like comprehensive recycling (four times less effective than a plant-based diet) or changing household lightbulbs (eight times less). Though adolescents poised to establish lifelong patterns are an important target group for promoting high-impact actions, we find that ten high school science textbooks from Canada largely fail to mention these actions (they account for 4% of their recommended actions), instead focusing on incremental changes with much smaller potential emissions reductions. Government resources on climate change from the EU, USA, Canada, and Australia also focus recommendations on lower-impact actions. We conclude that there are opportunities to improve existing educational and communication structures to promote the most effective emission-reduction strategies and close this mitigation gap.

## The climate mitigation gap: education and government recommendations miss the most effective individual actions

- ...and summarises the conclusions of the paper.

Current anthropogenic climate change is the result of greenhouse gas accumulation in the atmosphere, which records the aggregation of billions of individual decisions. Here we consider a broad range of individual lifestyle choices and calculate their potential to reduce greenhouse gas emissions in developed countries, based on 148 scenarios from 39 sources. We recommend four widely applicable high-impact (i.e. low emissions) actions with the potential to contribute to systemic change and substantially reduce annual personal emissions: having one fewer child (an average for developed countries of 58.6 tonnes CO<sub>2</sub>-equivalent (tCO<sub>2</sub>e) emission reductions per year), living car-free (2.4 tCO<sub>2</sub>e saved per year), avoiding airplane travel (1.6 tCO<sub>2</sub>e saved per roundtrip transatlantic flight) and eating a plant-based diet (0.8 tCO<sub>2</sub>e saved per year). These actions have much greater potential to reduce emissions than commonly promoted strategies like comprehensive recycling (four times less effective than a plant-based diet) or changing household lightbulbs (eight times less). Though adolescents poised to establish lifelong patterns are an important target group for promoting high-impact actions, we find that ten high school science textbooks from Canada largely fail to mention these actions (they account for 4% of their recommended actions), instead focusing on incremental changes with much smaller potential emissions reductions. Government resources on climate change from the EU, USA, Canada, and Australia also focus recommendations on lower-impact actions. We conclude that there are opportunities to improve existing educational and communication structures to promote the most effective emission-reduction strategies and close this mitigation gap.

## The climate mitigation gap: education and government recommendations miss the most effective individual actions

- Generally very good, actually comes from one of the most downloaded articles from *Environmental Research Letters*, has been downloaded over 320000 times!

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### The climate mitigation gap: education and government recommendations miss the most effective individual actions

Seth Wynes<sup>1,2,3</sup> and Kimberly A Nicholas<sup>1</sup>

Published 12 July 2017 • © 2017 IOP Publishing Ltd

[Environmental Research Letters, Volume 12, Number 7](#)

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## Writing Your Paper



- **Get feedback and comments on your paper **before** submission**
  - Your supervisor
  - Other colleagues
  - Internal review
- Make changes following their input
- This will save time in peer review process!
- Get help from a **fluent English speaker** if you need it
- <http://editing.iopscience.iop.org>

# IOP's TOP 10

**Tips for successfully writing up your research**

## Do...

1. Check the literature for similar results in your field at the outset.
2. Use references that show context of your work and why it is new and significant
3. Decide whether you are writing for a specialist or non-specialist audience (your paper must be easy for that audience to understand)
4. Choose which journal you want to publish in before writing your paper
5. Spend a lot of time on your title and abstract (write this last) – this will be what most people will see first. And judge your work on!



## Do...

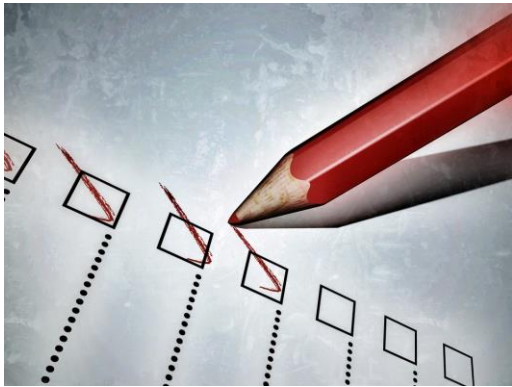
6. Keep **abbreviations** or technical terms to a minimum or clearly define them at first use
7. **Avoid speculation**, exaggeration or anecdotes – keep to the facts and clearly state your conclusions
8. Keep it clear and **concise** – even when there are no word limits – and **use your own words**
9. Allow plenty of time for **rewriting**
10. Get **feedback** from colleagues before submitting your article



# Peer Review Process



## Peer Review



- *The process whereby experts in the field assess an academic paper before deciding whether or not it should be published*
  - **Vital** part of publishing
  - Critical filter for millions of research papers written every year
  - Gives the scientific community and the public a **reliable indicator** on what to believe
  - Gives authors feedback that can help to **improve a paper**
  - Helps editors decide what to publish



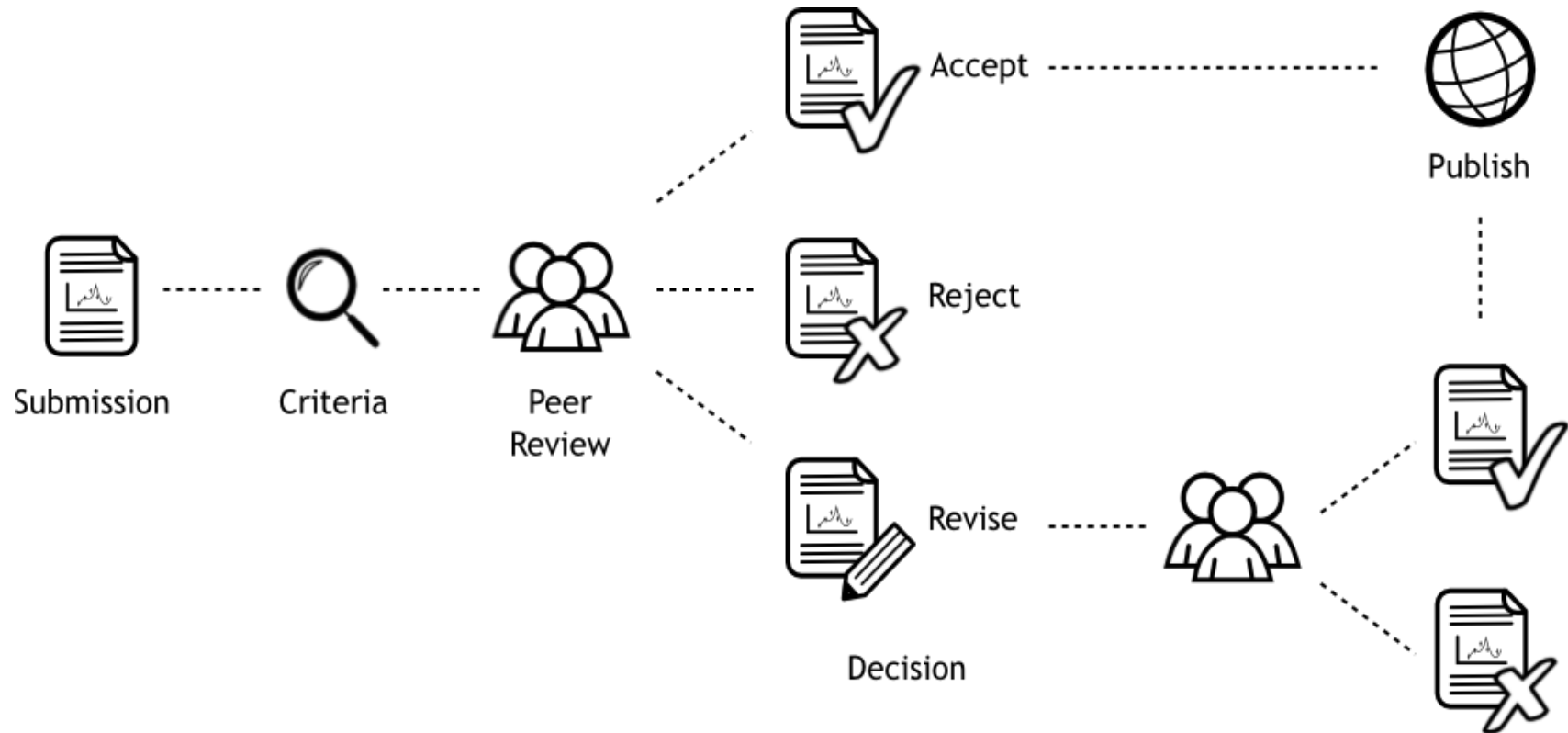
## Peer review models

### Different types of peer review


- Single-blind (most common in physics)
- Double-blind
- Open review/open reports
- Collaborative
- Post-publication

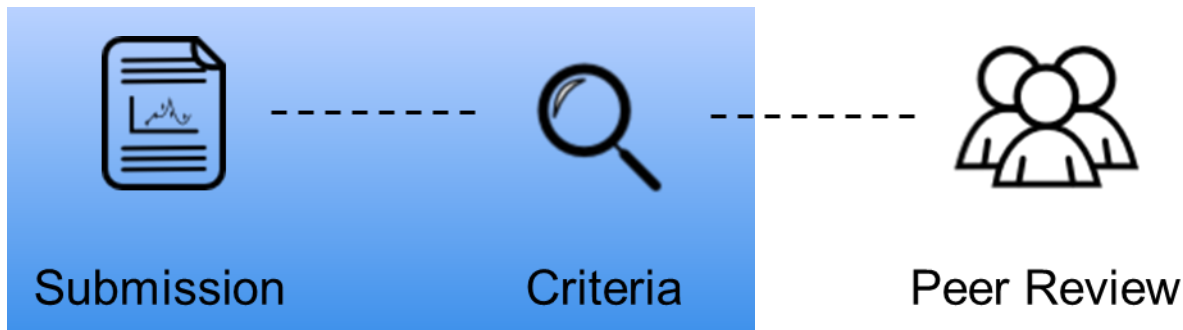
**Check what type of peer review your chosen journal offers!**

## Peer review process

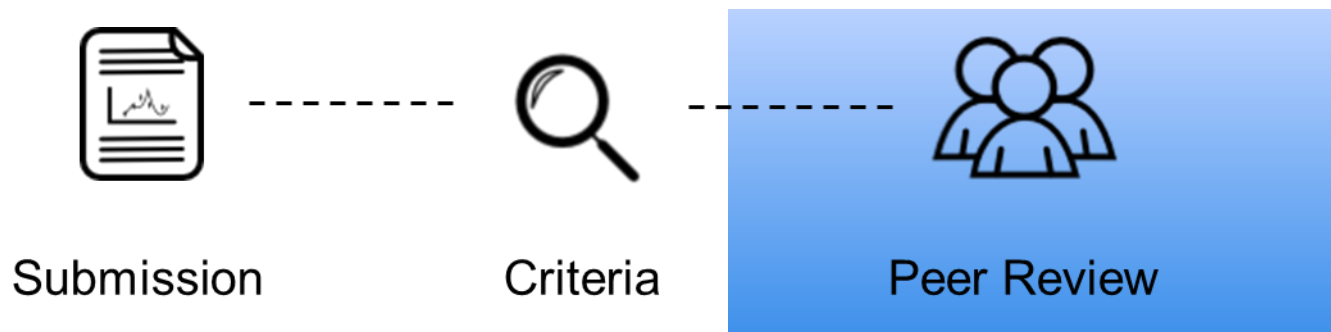


## 'Pre-refereeing': criteria

- The IOP editorial team review **all** submissions first
  - Check English, scope, quality of content and novelty (incremental?)
  - Use  **iThenticate**® to detect plagiarism or duplication
  - Consult the journal's Editorial Board if necessary
  - If the paper is not suitable it will be rejected (**or a transfer offered**) at this stage
  - Otherwise it will be sent to referees

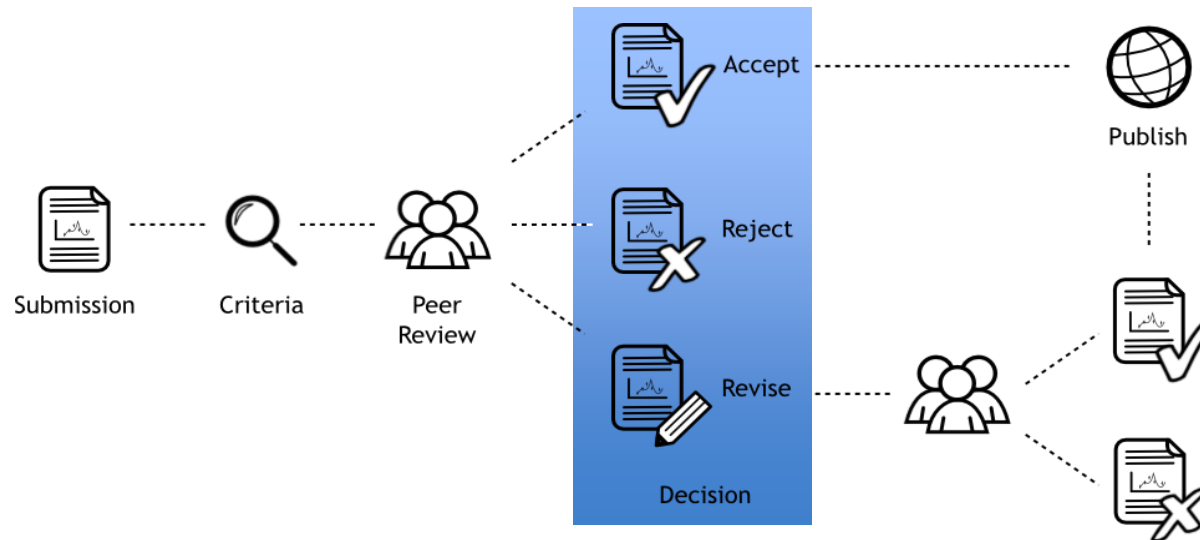


## Peer review: referee selection



- Referees are chosen based on:
    - Subject expertise
    - Independence
    - Availability
    - Reliability (previous record)
    - Author suggestions considered
  
  - Authors don't know who the referee is
  - Referee knows who the author is
  - Double-blind option for our Express titles
- } Single-blind

## Peer review: Making a first decision

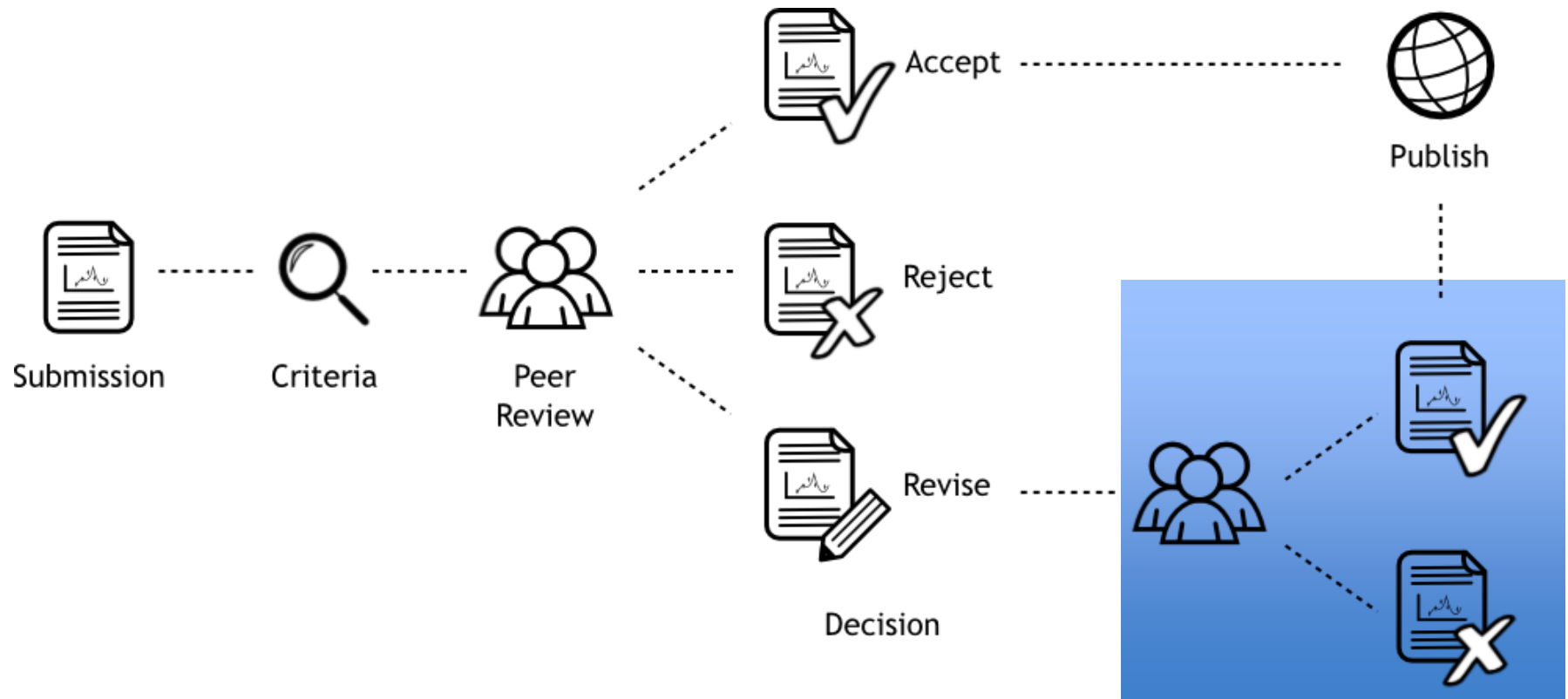


- Normally require at least **two referee reports** (Adjudicator consulted if the two referees disagree) – typically takes a month or two
- IOP referees are asked to rate **Scientific rigour, Novelty** and **Significance**
- Decision is made by the IOP editorial team based on the referee reports
- Immediate acceptance is unusual but does happen
- Often ask authors for revisions based on the referees' comments/requests
- **Rejection rate can be high** - 50%+ common in high-quality journals (**transfer?**)

## Peer review: responding to referees' comments

- **Being asked to revise is a great sign!** It means the referees see merit in your work and it fits this journal
- Read each referee's report carefully (**take some time!**)
- Ask for more time if you need it
- Respond to each and **every** comment specifically
- Keep a list of all your changes and **highlight them in the revised manuscript**
- If you disagree with the referees, clearly (and politely!) explain why
- Never ignore a comment (if don't understand then raise a query with editorial office)
- This is free advice - use it!

## Peer review: following revision



- Paper will be accepted if the referees are satisfied with the revisions
- ...or may be rejected if the revisions are not strong enough
- ...or you may be asked to make further revisions!



## Peer review: what if your paper is rejected?

- Almost **everyone** has experienced this!
- Use the advice you received to improve your paper
- You can re-write your paper and re-submit it to another journal (assuming the science is correct!)
- Different tiers of journals are available
- If you think the decision was wrong most journals give you an opportunity to appeal (within 1 month?)

## What if your paper is accepted?

- You will receive an acceptance letter - congratulations!



**ACCEPTED**

- Check if the journal needs you to do anything now; **you may need to:**
  - Sign copyright form (assigns copyright to the publisher)
  - Provide proof of permissions for any reproduced figures
  - Upload the source files (TeX/Word) for your manuscript



# Publication ethics

## Publication ethics

- Examples of serious misconduct: plagiarism, falsification/fabrication of data, ghost/gift authorship
- We routinely use iThenticate, a plagiarism detection tool, 
- IOP is a member of COPE, the Committee for Publication Ethics – gives advice on handling misconduct cases 
- Read our ethical policy for authors at:  
<https://publishingsupport.iopscience.iop.org/ethical-policy-journals/>
- Top ten tips on publishing ethically...

## Do

- Be honest in making claims for the results and conclusions of your research
- Credit all those (and only those) that have made a significant contribution
- Check your funder's copyright/open access policy
- Disclose any potential conflicts of interest
- Get permission to re-use anything you haven't created yourself
- Respond to all reviewer's comments, even if you don't agree

## Don't

- Fabricate, falsify or misrepresent data or results!
- Submit an article to more than one journal at a time
- Add someone as a co-author without their permission
- Sign any forms on behalf of your co-authors unless you are authorized to do so
- Copy and paste text from other articles (including your own) – this may be classed as (self) plagiarism or duplicate publication
- Take any criticisms of your work from referees personally!



# Post-acceptance

## What happens after acceptance?

- Your Accepted Manuscript will be made available online within 24 hours of acceptance (if opted in)
- So you can promote your work to your peers as soon as it is accepted (email, social media etc)!
- An earlier opportunity for your research to be read **and cited** (citable DOI)



## Proof stage through to publication

- Your paper will be edited to meet the format of the journal (usually including an edit for English)
- You will be asked to **carefully check** the proof of your paper
- This is your **last chance** to make any (minor) corrections!
- Your corrections will be made and the **paper published online**; final version replaces Accepted Manuscript (same DOI)
- You will be informed and sent a link to your published paper
- Print publication will follow some time later (if the journal is printed!)



# Post publication: Impact and visibility

## Post publication: author promotion


There are things **you** can do to help your paper be read and cited more!

- **Contact colleagues** in your field and people you've referenced (send link to paper) – they'll be delighted!
- Use your **social media** (Twitter is recommended)
- **Blog**
- Update your institutional **homepage**
- Use your institution's **press office**
- Promote your publication at **conferences**
- Engage with **Kudos** - [www.growkudos.com](http://www.growkudos.com) - it's free!
- We also play our part...



## Post publication: publisher promotion

Examples of things IOP may do to help your paper be read and cited more:

- Promote as part of subject **collections** and annual highlights collections
- Highlight interesting work using **social media** (e.g. Twitter) 
- **Journalistic coverage** of high-interest papers, including in Physics World
- We also **press release** newsworthy papers – great publicity for authors!
- Here's a nice example ...

# Post publication: Video Abstract

## Environmental Research Letters

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### Quantifying the consensus on anthropogenic global warming in the scientific literature

John Cook<sup>1,2,3</sup>, Dana Nuccitelli<sup>2,4</sup>, Sarah A Green<sup>5</sup>, Mark Richardson<sup>6</sup>, Barbel Winkler<sup>2</sup>, Rob Painting<sup>2</sup>, Robert Way<sup>7</sup>, Peter Jacobs<sup>8</sup> and Andrew Skuce<sup>2,9</sup>

Published 15 May 2013 • 2013 IOP Publishing Ltd  
Environmental Research Letters, Volume 8, Number 2



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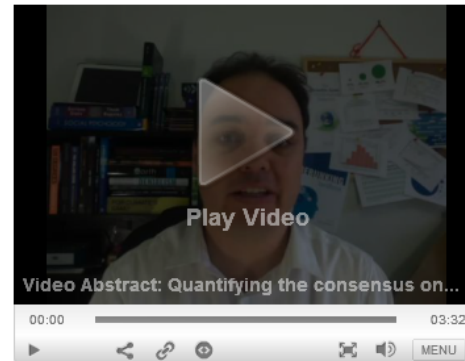
- E-mail
- Google+
- Facebook
- CiteULike
- Twitter
- Mendeley

A perspective for this article has been published in 2013 *Environ. Res. Lett.* **8** 031003

#### + Article information

#### Abstract

We analyze the evolution of the scientific consensus on anthropogenic global warming (AGW) in the peer-reviewed scientific literature, examining 11 944 climate abstracts from 1991–2011 matching the topics 'global climate change' or 'global warming'. We find that 66.4% of abstracts expressed no position on AGW, 32.6% endorsed AGW, 0.7% rejected AGW and 0.3% were uncertain about the cause of global warming. Among abstracts expressing a position on AGW 97.1%



- Abstract
- 1. Introduction
- 2. Methodology
- 3. Results
- 4. Discussion
- 5. Conclusion
- Acknowledgments
- References
- Citations



# Post publication: Press release

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## Study reveals scientific consensus on anthropogenic climate change

16 May 2013 | Source: [Environmental Research Letters](#)

A comprehensive analysis of peer-reviewed articles on the topic of global warming and climate change has revealed an overwhelming consensus among scientists that recent warming is human-caused.



The study is the most comprehensive yet and identified 4000 summaries, otherwise known as abstracts, from papers published in the past 21 years that stated a position on the cause of recent global warming – 97 per cent of these endorsed the consensus that we are seeing man-made, or anthropogenic, global warming (AGW)

Led by John Cook at the University of Queensland, the study has been published today, Thursday 16 May, in IOP Publishing's journal *Environmental Research Letters*.

The study went one step further, asking the authors of these papers to rate their entire paper using the same criteria. Over 2000 papers were rated and among those that discussed the cause of recent global warming, 97 per cent endorsed the

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# Post publication: News coverage

**The US disconnect over climate change**  
Amid growing scientific proof that global warming is man-made, evidence to the sceptics.



**The Telegraph**  
Home News World Sport Finance Comment Blogs Culture Travel Life Women Politics Obits Education Earth Science Defence Health Scotland Royal Celebrity Earth News Environment Climate Change Wildlife Outdoors Picture Galleries Earth







for warming, the authors found, stently show that Americans they think scientists agree that ize-mail exchange with two  
s fresh assessment of the climate gap to have a chance of use gas emissions. On his is lead author, put it this way:  
ing to communicate a 97% consensus scientific research that Let's spread the word



## Post publication: Twitter

**Barack Obama**   
@BarackObama 

Ninety-seven percent of scientists agree: [#climate](#) change is real, man-made and dangerous. Read more: [OFA.BO/gJsdFp](http://OFA.BO/gJsdFp)

 Reply  Retweet  Favorited  More

**2,657** RETWEETS **735** FAVORITES

10:48 AM - 16 May 13

**Al Gore**   
@algore  

Deniers say [#climate](#) change isn't happening. Science & common sense prove them wrong. [bit.ly/18bc2t4](http://bit.ly/18bc2t4) [#HeatOnDenial](#)

RETWEETS **397** LIKES **161**

11:10 AM - 9 Aug 2013

  397  161 



## Post publication

- Following press releases, our authors say:

*"I am receiving many calls from public and scientists indicating that they [would] like to help"*

*"...this helped us with the Department of Energy funding agency in the US"*

*"...having a journal that will consider press-releasing work will be a big positive influence in my future considerations of where to publish. Before this experience with IOP, it wouldn't have been a consideration"*

*"It also led to another invitation to write a book on the topic, it also led to two other invited talks"*

## Recap: topics covered in this talk

- Introduction to IOP and IOP journals – *society publisher*
  - Why publish at all? – *in your own interest*
  - Choosing your journal – *before writing your paper, right level?*
  - Writing your paper – *get it checked before submitting*
  - Peer review process – *stay calm with referees!*
  - Publication ethics – *how to avoid problems*
  - Post-acceptance – *last chance to check*
  - Post-publication – *important to promote your own work*
- Further information on **Publishing Support** (and in **printed guides**):  
<https://publishingsupport.iopscience.iop.org>

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