



How to Publish in High-Impact Journals

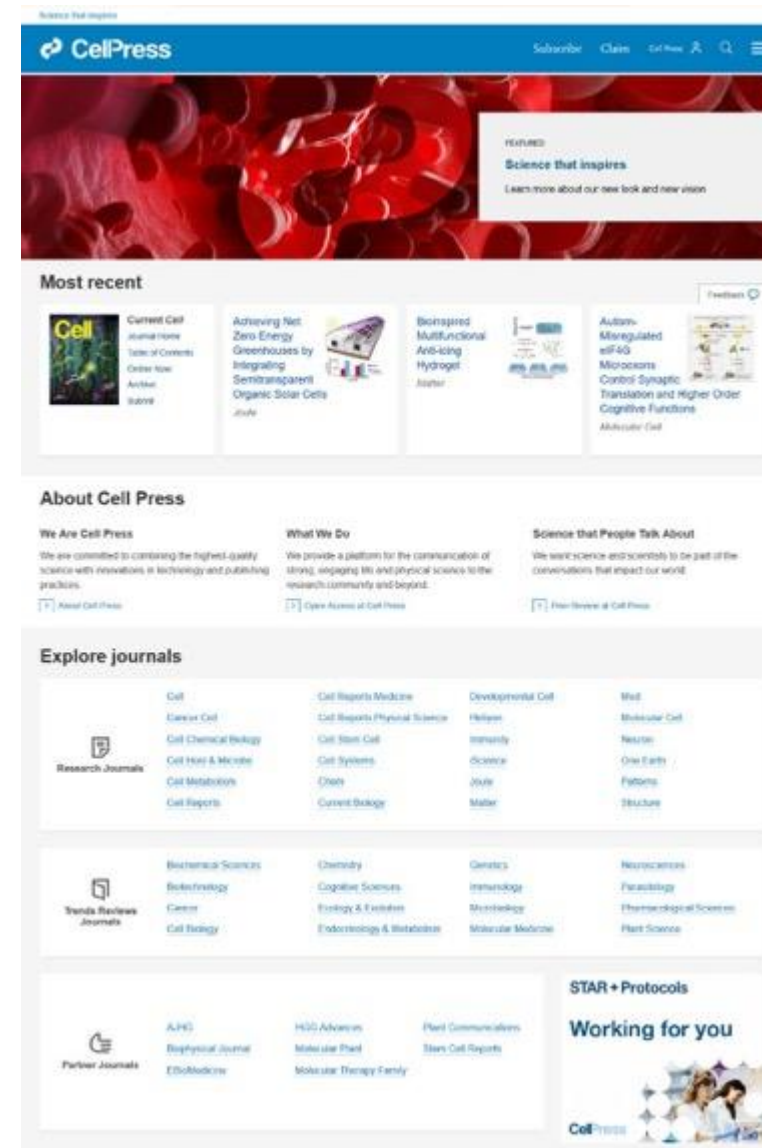
Philip Earis
Editor-in-Chief
Joule, Cell Press

5th March 2020



Overview

- Experience of working in India
- Introduction to Cell Press portfolio
- Research output in India
- Expansion into physical sciences
- Upcoming launches
- Manuscript preparation
- The editorial process
- Innovation and community building



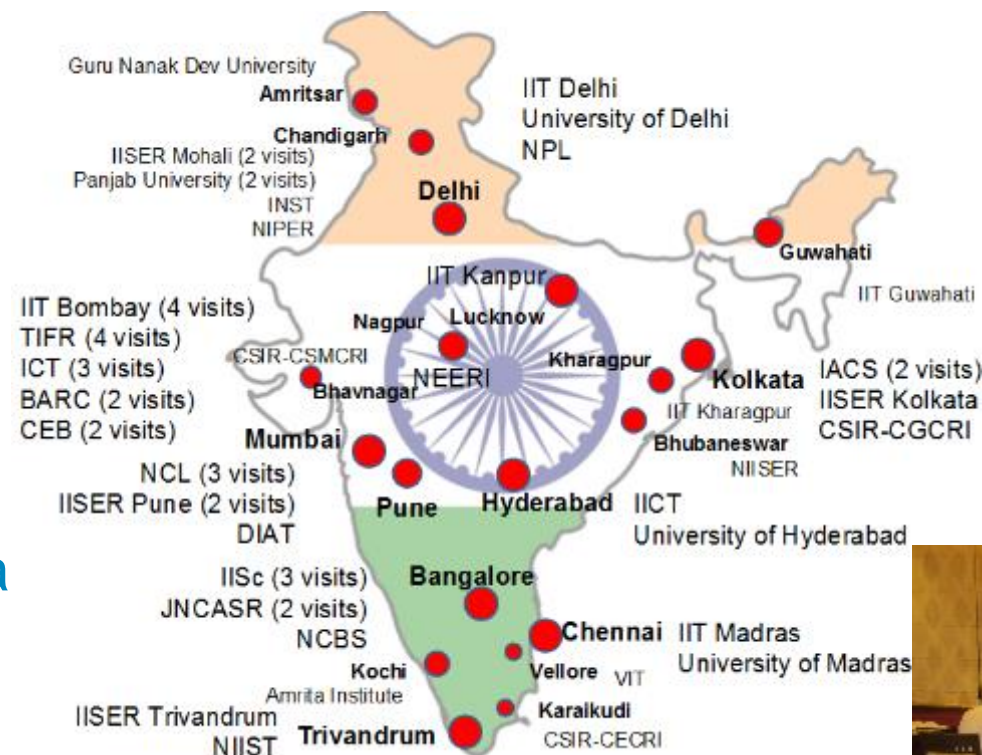


Experience working in India

My Experience in India



- Lived in Mumbai (2013-2016)
- Worked for Royal Society of Chemistry (RSC) as Executive Editor
- Extensive network-building & research institute visits across India
- Wider projects using my science & technology knowledge and connections in an Indian context



Solar energy



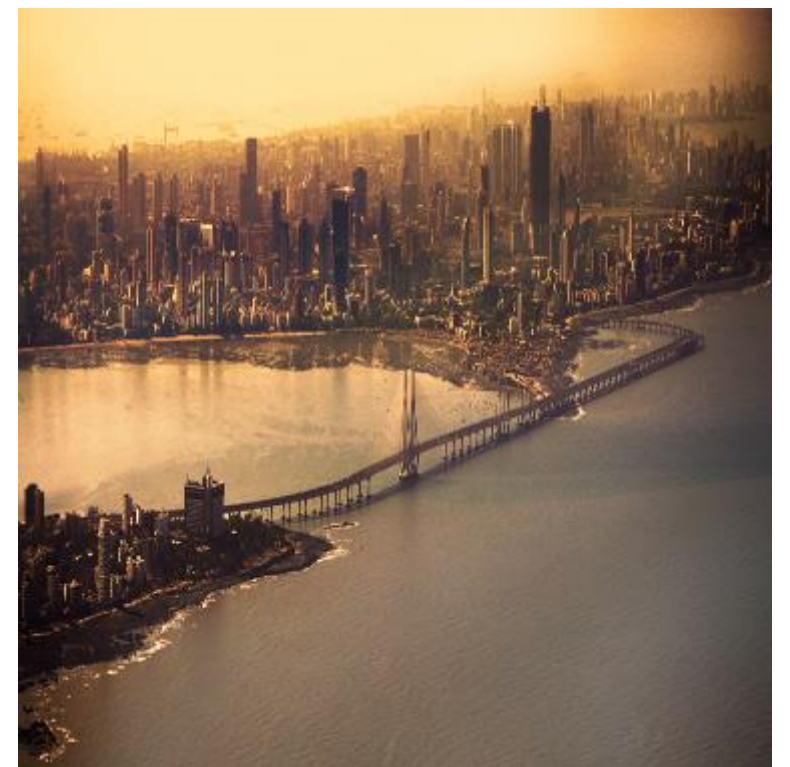
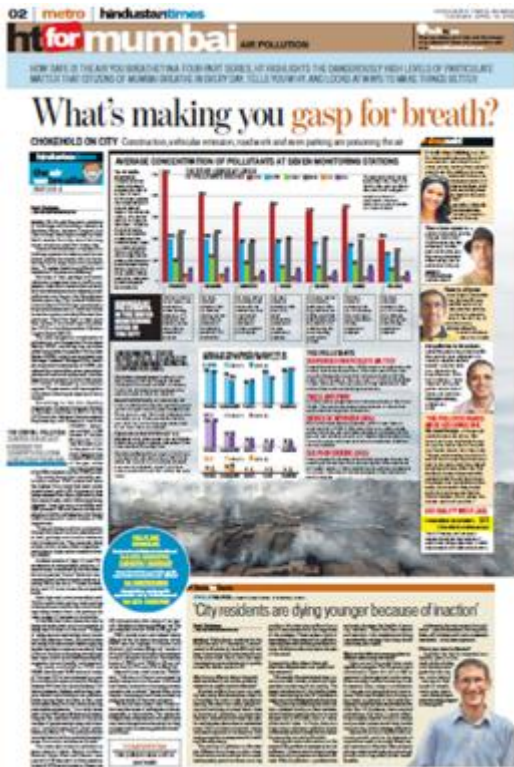
- Founded & ran solar energy project, *Project Light* to benefit unelectrified villages and slums
- Collaborated with Indian researchers to develop modular solar lighting systems



Environmental Projects



- Highlighted air pollution in urban India
- Plastic recycling pilot project



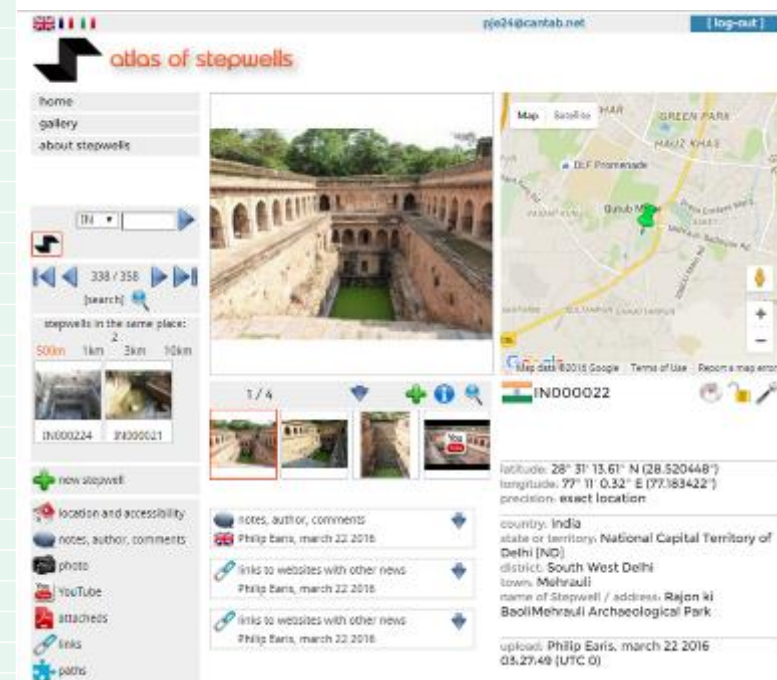
Heritage Projects



- I Established Stepwell Atlas, a collaborative mapping portal for stepwells
- See www.stepwells.org and 'Stepwell Atlas' Android App). Around 3000 stepwells mapped so far



761	Rajasthan [RJ]
546	Gujarat [GJ]
321	Madhya Pradesh [MP]
283	Karnataka [KA]
261	Maharashtra [MH]
142	Uttar Pradesh [UP]
74	Kerala [KL]
64	Andhra Pradesh [AP]
56	Haryana [HR]
52	Telangana [TG]
51	Tamil Nadu [TN]
20	NCT / Delhi [ND]
19	Orissa [OR]
14	Bihar [BR]
9	Assam [AS]
5	Punjab [PB]
5	Chhattisgarh [CG]
4	Goa [GA]
4	Himachal Pradesh [HP]
3	Uttarakhand [UL]
3	Jammu and Kashmir [JK]
2	Jharkhand [JH]
1	West Bengal [WB]



Wider experience



Wider experience



Wider experience





Cell Press portfolio of high-impact journals

Cell Press family of journals



- Primary Research Journals
 - *Chem* and *Joule* were the first introduced in physical sciences
 - *Matter* and *One Earth* in 2019
- OA journals, including *Cell Reports* and *iScience*, first interdisciplinary journal
- Trends Review journals
 - Newest: *Trends in Chemistry* in 2019



Primary journals



21 Primary research journals

Recent launches in the physical sciences, including *Chem*, *Joule*, *Matter*, *Cell Reports*, *Physical Science*

Upcoming launches: *Med*, *Cell Reports*, *Medicine*, *Patterns*, *STAR Protocols*

Trends Reviews journals



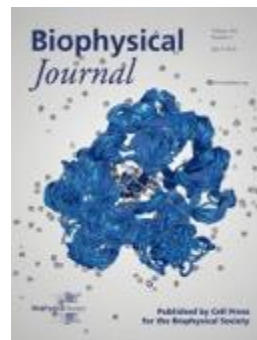
Partner journals



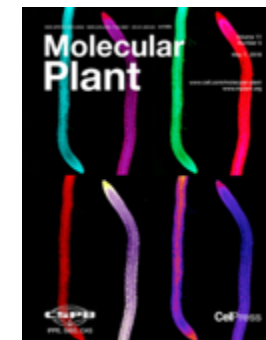
American Society of Human Genetics



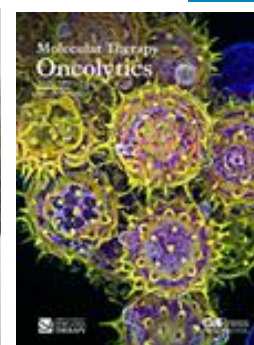
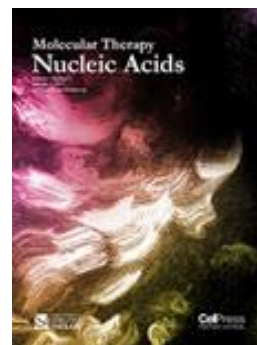
International Journal for Stem Cell Research (IJSR)



The Biophysical Society



Institute of Plant Physiology and Ecology, Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences, and the Chinese Society of Plant Biology

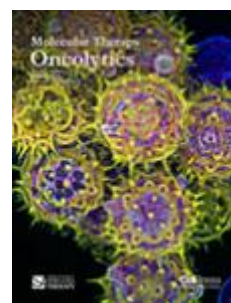
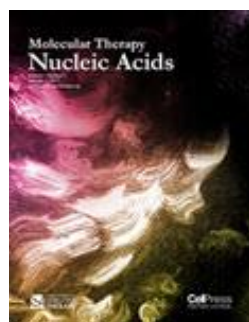
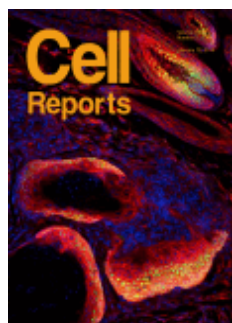
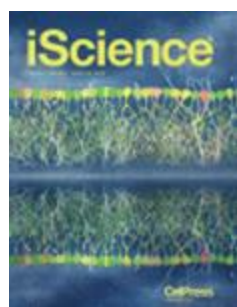


American Society of Gene & Cell Therapy

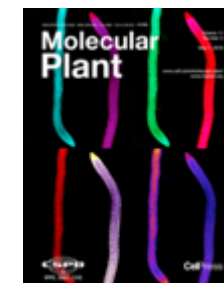
OA and hybrid journals



Open access titles



Hybrid titles





Research output in India

Research Output in Cell Press: India



Performance

327

Scholarly Output  



 [View list of publications](#)

8,844

Views Count 

2.21

Field-Weighted Citation Impact



13,500

Citation Count  

215

International Collaboration







Publications co-authored with Institutions in other countries/regions










India:
65.7%

Institutional Research Output in Cell Press: Top 15



Institution	Scholarly Output
 Tata Institute of Fundamental Research	70
 CSIR - Biomedicine and Agriculture	41
 Indian Institute of Science Bangalore	26
 CSIR - Industry and Standards	19
 Indian Institute of Technology, Bombay	17
 Indian Institute of Technology, Kanpur	15
 Indian Institute of Science Education and Research Pune	10
 Manipal Academy of Higher Education	10
 National Institute of Immunology India	10
 Raman Research Institute	9
 CSIR Indian Institute of Chemical Technology	8
 Indian Institute of Science Education and Research Mohali	8
 Jawaharlal Nehru Centre for Advanced Scientific Research	8
 University of Hyderabad	8

Authors 5+ Articles

Author	Affiliation
Chattopadhyay, Amitabha	 CSIR - Biomedicine and Agriculture
Mayor, Satyajit	 Tata Institute of Fundamental Research
Gokhale, Rajesh S.	 CSIR - Biomedicine and Agriculture
Maiti, Sudipta	 Tata Institute of Fundamental Research
Nampoothiri, Sheela	 Amrita Vishwa Vidyapeetham
Pullarkat, Pramod A.	 Raman Research Institute
Shukla, Arun Kumar	 Indian Institute of Technology, Kanpur



Cell Press physical sciences expansion

Joule

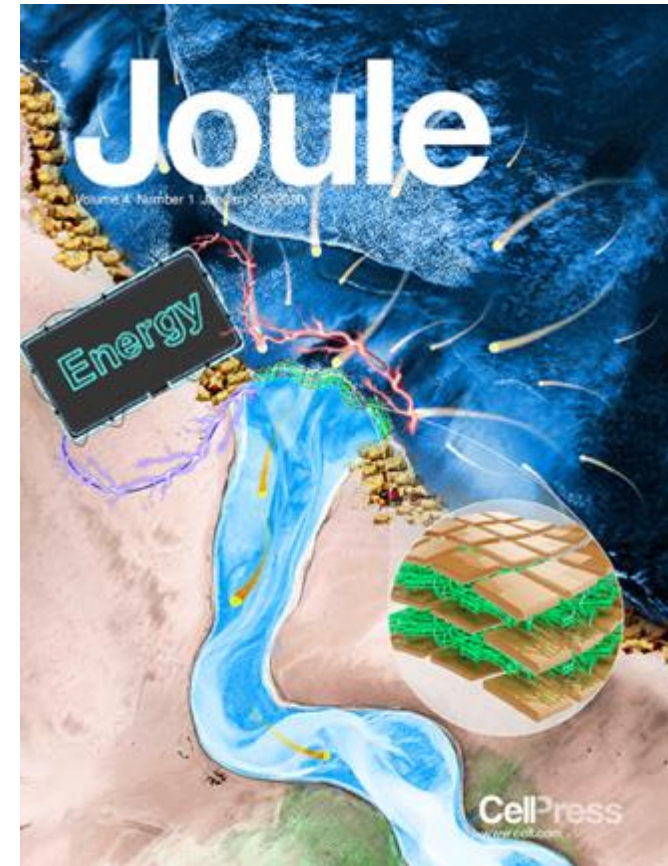
- A home for outstanding and insightful research, analysis and ideas addressing a key global challenge: the need for more sustainable energy.
- A distinctive and forward-looking journal, bridging disciplines and scales of energy research. *Joule* connects all who are researching and analyzing the challenges — scientific, technical, economic, policy and social — of providing sustainable energy solutions.
- *Joule* spans scales of energy research, from fundamental laboratory research into energy conversion and storage up to impactful analysis at the global level.
- *Joule* purposefully highlights and amplifies the implications, challenges and opportunities of novel energy research for different groups working across the entire spectrum of the field.

The New York Times

POPULAR
SCIENCE

SCIENTIFIC
AMERICAN

Science
AAAS



Launched September 2017

www.cell.com/joule



Philip Earis
Editor-in-Chief



Latest Indian Research in *Joule*



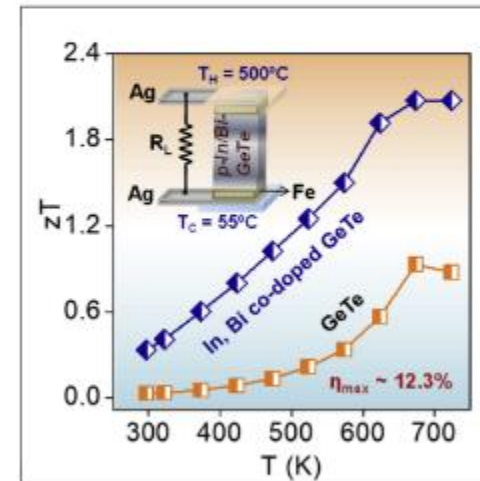
Dr. Kanishka Biswas
Jawaharlal Nehru Centre for
Advanced Scientific Research,
Jakkur, Bangalore

Joule

CellPress

Article

Realization of High Thermoelectric Figure of Merit in GeTe by Complementary Co-doping of Bi and In



Suresh Perumal, Manisha Samanta, Tanmoy Ghosh, ..., Ajay Singh, Umesh V. Waghmare, Kanishka Biswas

kanishka@ncars.ac.in

HIGHLIGHTS

In doping boosts the Seebeck coefficient of GeTe by creating resonance level

Bi-doping-induced point defects and domain variants decrease κ_{ph} of GeTe

In and Bi co-doped GeTe shows a high thermoelectric figure of merit zT of ~ 2.1 at 723 K

Single-leg TE device of In, Bi co-doped GeTe has $\sim 12.3\%$ efficiency for a ΔT of ~ 445 K

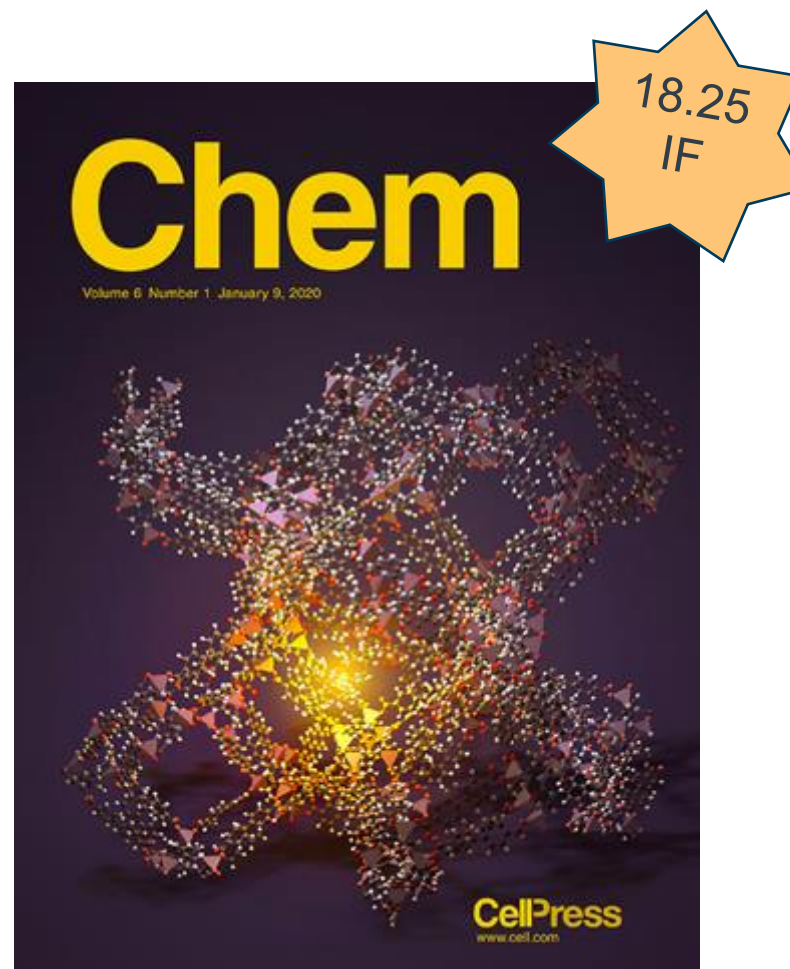
Synergistic effect of In-induced resonance level and Bi-induced point defect phonon scattering resulted in high thermoelectric figure of merit, $zT \sim 2.1$ at 723 K in In and Bi co-doped GeTe along with extremely high thermoelectric power conversion efficiency, $\eta \sim 12.3\%$ in single-leg thermoelectric generator for the temperature difference of 445 K.



Chem, a sister journal to *Cell*, provides a home for seminal and insightful research and showcases how fundamental studies in chemistry and its sub-disciplines may help in finding potential solutions to the global challenges of tomorrow.

Content is categorized following 10 Sustainable Development Goals identified by the UN:

- Good health and well-being
- Affordable and clean energy
- Clean water and sanitation
- Climate action
- Zero hunger
- Responsible consumption and production
- Industry, Innovation, and Infrastructure
- Life on land
- Sustainable cities and communities
- Life below water



Robert Eagling, PhD
Editor-in-Chief

Launched July 2016

www.cell.com/chem



2019 Nobel Prize Connections



John B. Goodenough

John B. Goodenough is affiliated with University of Texas, Austin, TX, USA.



M. Stanley Whittingham

M. Stanley Whittingham is affiliated with Binghamton University, State University of New York, New York, NY, USA.



Akira Yoshino

Akira Yoshino is affiliated with Asahi Kasei Corporation, Tokyo, Japan and Meiji University, Nagoya, Japan.



Stabilizing Cathode Materials of Lithium-Ion Batteries by Controlling Interstitial Sites on the Surface

Jun-Yu Piao, Yong-Gang Sun, Shu-Yi Duan, An-Min Cao, Xue-Long Wang, Rui-Juan Xiao, Xi-Qian Yu, Yue Gong, Lin Gu, Yutao Li, Zhen-Jie Liu, Zhang-Quan Peng, Rui-Min Qiao, Wan-Li Yang, Xiao-Qing Yang, John B. Goodenough, Li-Jun Wan

Chem, Vol. 4, Issue 7

Inhibiting Polysulfide Shuttling with a Graphene Composite Separator for Highly Robust Lithium-Sulfur Batteries

Tianyu Lei, Wei Chen, Weiqiang Lv, Jianwen Huang, Jian Zhu, Junwei Chu, Chaoyi Yan, Chunyang Wu, Yichao Yan, Weidong He, Jie Xiong, Yanrong Li, Chenglin Yan, John B. Goodenough, Xiangfeng Duan

Joule, Vol. 3, Issue 1

Stabilizing a High-Energy-Density Rechargeable Sodium Battery with a Solid Electrolyte

Hongcai Gao, Sen Xin, Leigang Xue, John B. Goodenough

Chem, Vol. 4, Issue 4

Nitrogen-Doped Carbon for Sodium-Ion Battery Anode by Self-Etching and Graphitization of Bimetallic MOF-Based Composite

Yuming Chen, Xiaoyan Li, Kyusung Park, Wei Lu, Chao Wang, Weijiang Xue, Fei Yang, Jiang Zhou, Liumin Suo, Tianquan Lin, Haitao Huang, Ju Li, John B. Goodenough

Chem, Vol. 3, Issue 1

The Origin of Superior Performance of $\text{Co}(\text{OH})_2$ in Hybrid Supercapacitors

Hongcai Gao, Sen Xin, John B. Goodenough

Chem, Vol. 3, Issue 1

Critical Parameters for Evaluating Coin Cells and Pouch Cells of Rechargeable Li-Metal Batteries

Shuru Chen, Chaojiang Niu, Hongkyung Lee, Qiuyan Li, Lu Yu, Wu Xu, Ji-Guang Zhang, Eric J. Dufek, M. Stanley Whittingham, Shirley Meng, Jie Xiao, Jun Liu

Joule, Vol. 3, Issue 4

Matter: It's material.

The home for multi-disciplinary, transformative material science research – from fundamentals to application, from nano to macro.



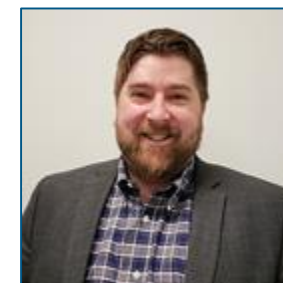
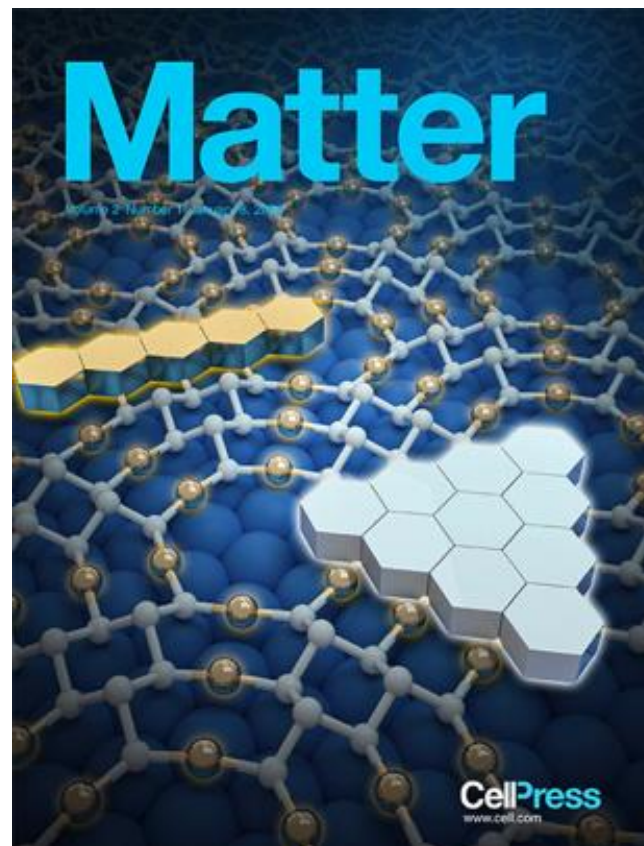
MULTI-DISCIPLINARY

Build bridges within and across disciplines

We publish high-quality, transformative research across disciplines related to:

- Fundamental synthesis, structure, and properties
- Performance of emerging material systems
- Novel characterization methods

Articles on materials of any state, scale, composition, or material will be considered.



Steven W. Cranford, PhD
Editor-in-Chief

Launched July 2019
www.cell.com/matter

One Earth

The home for high-quality research that seeks to understand and address today's environmental Grand Challenges.



One Earth fosters depth and breadth of insights into:

- **Environmental change**
Drivers, mechanisms, and long-term context.
- **Earth systems**
A thorough understanding of the planetary boundaries, thresholds, and tipping points.
- **Transformative solutions**
An integrated approach toward a sustainable future.



Lewis Collins, PhD
Editor-in-Chief

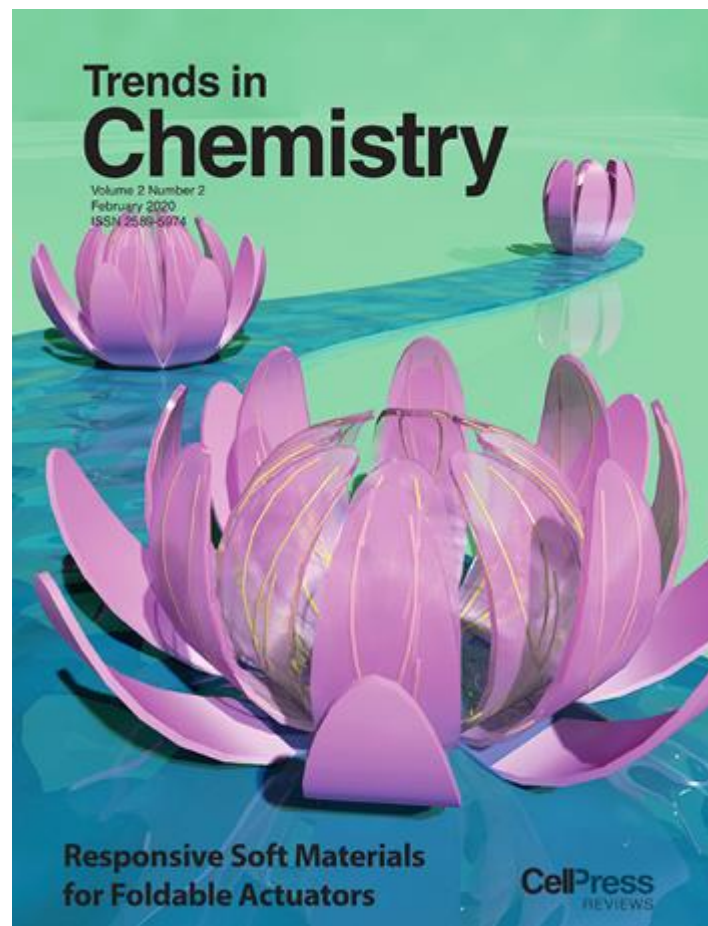
Launched September 2019
www.cell.com/one-earth

Trends in
Chemistry

Bridging all divisions of chemistry

Big questions,
new perspectives

- Analytical
- Biological
- Catalysis
- Colloids
- Computational
- Environmental
- Electrochemistry
- Green
- Inorganic and organometallic
- Materials
- Medicinal
- Organic
- Physical
- Polymer
- Supramolecular



Thomas Dursch, PhD
Editor-in-Chief

Launched April 2019
www.cell.com/trends/chemistry

Open Access Multi-Disciplinary



iScience

- *iScience* publishes basic and applied research that advances a specific field across life, physical, and earth sciences.
- Its no-nonsense approach to submissions is simple, fast, and fair, and its commitment to integrity means that it publishes transparent methods with high editorial standards.

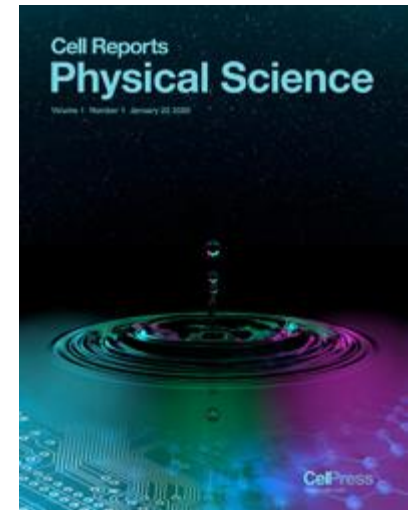


Launched May 2018
www.cell.com/iscience

Cell Reports Physical Science

Publishes cutting-edge research across the spectrum of the physical sciences, including:

- Chemistry
- Physics
- Materials science
- Energy science
- Engineering
- Related work



Launched January 2020
www.cell.com/cell-reports-physical-science



Cell Press upcoming launches

Med

Content Summer 2020

www.cell.com/med



Patterns

Content Summer 2020

www.cell.com/patterns



Cell Reports Medicine

Content Summer 2020

www.cell.com/cell-reports-medicine



STAR Protocols

Content Spring 2020

www.cell.com/star-protocols





Manuscript preparation

Questions to answer before you write



Think about WHY you want to publish your work.

- Have you done something **new**?
- Is there anything **challenging** in your work?
- Is the work related directly to a current **topic of high interest**?
- Have you **provided solutions** to some difficult problems?

If you can answer “yes” to some or all of these questions, then start preparations for your manuscript



Pick the right journal



Identify the sector of readership/community for which a paper is meant

Identify the interest of your audience

- Match this interest to your choice of journal

Read the Aims and Scope page

Does the journal publish on the topic?

- Look at the papers that you cite
- Do a literature search

The right journal will have editors who:

- know the field and the important questions being asked
- know reviewers
- can guide the process and resolve disputes



Why publish at Cell Press?



- Full-time in-house professional editors
- Impartial surrogates for the broad readership
- Actively engage the authors and reviewers
- Timely decisions
- Responsive and hospitable
- Maintaining high scientific standards during review process
- Team-based editorial decision making
- Listen to the communities we serve
- Experiment and innovate
- Reputation for rigor
- Post-publication promotion:
 - Previews, author audio or video interviews, press releases, social media

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
- Is written in a style that transmits the message clearly



General points about paper writing



Importance of title and abstract

What's the story? Tell it as simply and concisely as possible

Ensure logical layout of arguments/flow of experiments (the chronology of the experiments is not important)

Make use of summary statements

Get feedback before submission

- Recruit colleagues outside of your area to review it, and ask for an honest appraisal
 - *Is the flow of logic clear?*
 - *Is all the jargon defined?*
 - *Do the experiments support the conclusions?*
- If English is your second language ask a native speaker to check for grammar and clarity

Write a good cover letter



What to include:

1. Why you think the paper is a good fit for this journal
2. Additional background that does not fit in the abstract
3. Why you think the question you set out to address is important and/or why is what you found so exciting
4. Is there a controversy we should know about?
5. Is there competition we should know about?
6. Reviewer suggestions/exclusions

What not to include:

1. The abstract
2. A list of past accomplishments from your lab
3. The meetings you've presented this work at and the nice feedback you got

Manuscript preparation



Use an effective title



Write a clear abstract



Interesting and understandable



Accurate and specific



Brief and to the point

Introduction



Where does the field stand?



What problem are you addressing?



Identify the solutions & limitations

An effective Results section



Be clear and easy to understand

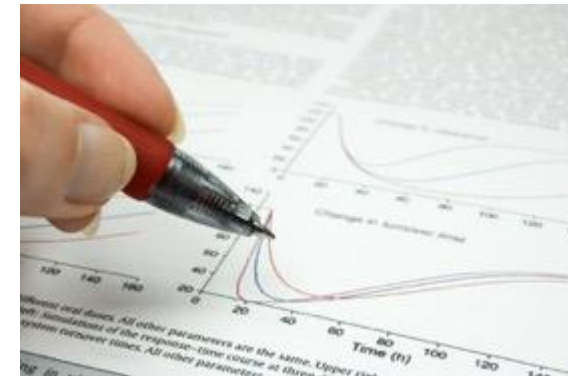
Use paragraph headings that describe concrete findings

Use similar headings for figure legend titles as for paragraphs

Feature unexpected findings

Provide statistical analysis

High quality illustrations & figures



Data preparation



- Make use of color/shapes etc. in figures to highlight appropriate data
- Graphs:
 - should not appear crowded, try to present at most 3-4 datasets per graph
 - use well-selected scales and label the axes clearly
- Use different symbols to discriminate between data sets
- Figure legend:
 - should be brief
 - yet should contain sufficient explanatory details to explain the figure without the need to refer to the main text
- Always guide readers to specific parts of figures in the main text

Tie it together in the Discussion



What do the results mean?

Make the discussion correspond to
the results

Compare published results with
your own



References



Cite the main scientific publications on which your work is based

Do not use too many references

Always ensure you have fully absorbed material you are referencing

Avoid excessive self-citations

Avoid excessive citations of publications from the same region

Conform strictly to the style given in the guide for authors



Acknowledgments



Ensures those who helped in the research are recognised



Advisors and
Undergrad.
Support



Financial
Supporters
and Funding
Bodies



Proofreaders



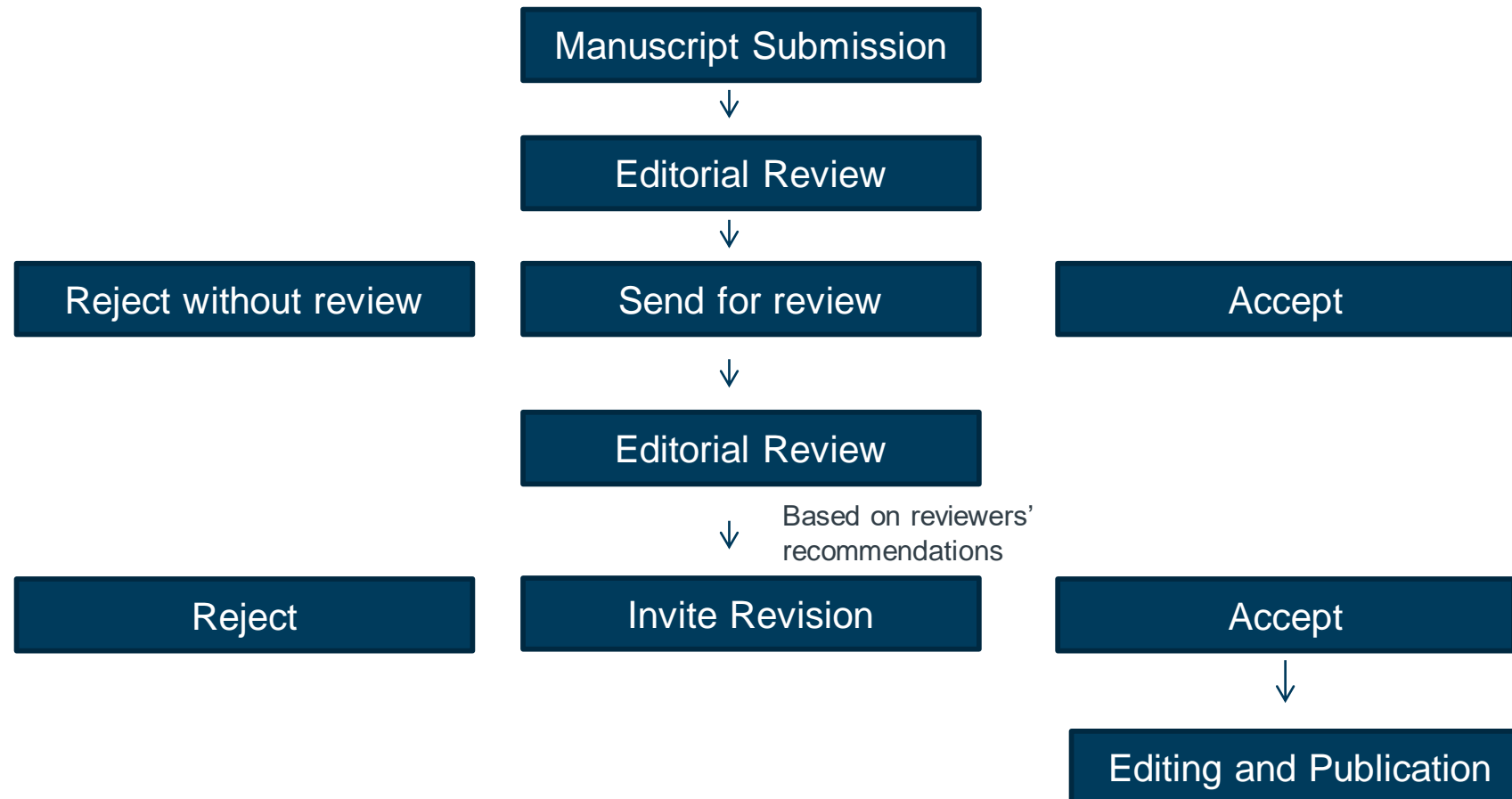
Suppliers
who may
have donated
materials





The editorial process

The manuscript journey



The Editor's role



- Once handling editor assigned – reads paper and discusses with editorial colleagues
- Assesses importance of question, advance over published literature
- Decides whether or not to review paper for journal
- Manages review process
- Promotion of work at publication

Outcome of initial editorial evaluation



Return the manuscript to the authors

- with an explanation of why the editors feel it is not likely to be a strong candidate for publication

Send the paper out for review

- the editors identify appropriate reviewers, taking into consideration authors' suggestions and exclusions

What we ask reviewers to evaluate



- Technical quality of the data
- Degree to which data support conclusions
- Feedback on level of interest
 - To those working in the field
 - To those working outside the field
- Each reviewer assesses the paper from a different standpoint
- We honor reviewer exclusions

An aside – responsibilities of a reviewer



- When to recuse yourself – how close is too close?
 - Have you published papers together?
 - Are/were you at the same institution?
 - Do you have a grant together?
 - Is a trainee on the paper now in your lab?
- Confidentiality
- Training and sharing in the lab
- Inviting a colleague to help? – ask editor first
- Be constructive – including tone
- Be timely – if you can't do it fast, say no or notify editor
- Commit to re-review of revised paper

The editorial decision



- Editor integrates all aspects of the paper
 - Reviewers' comments
 - Editor's own assessment of paper
 - Nature of anticipated revisions
 - Editorial team feedback
 - Can go back to reviewers or additional expert for further feedback
- Balance technical issues with conceptual interest
- Consider whether additional experiments are feasible/reasonable
- Not simple yes/no tally

Rendering a decision



How close is the present state of the manuscript to the standard of the journal?

- Accept the manuscript or accept pending minor revisions
- Encourage authors to respond to concerns, and carefully outline what would be needed from a revised version
- Do not encourage authors to respond to concerns, providing reasons why revision would likely not be productive

Upon receiving an invitation to revise



- Read letter carefully and decide whether any suggested experiments can be completed within the timeframe indicated
- If not, consider whether there are different experiments or analyses that could be completed and are aimed at the same question
- Discuss with the editor any concerns on the revision prior to resubmission

Revisions, resubmissions and transfers



Revisions

Make your revision count!

Contact editors with questions

Resubmission

Include detailed point-by-point letter addressing reviewers' critiques; may be subject to re-review by all/subset of reviewers

Transfers

Requested by authors: contact editors of second journal to transfer file, including reviews

Upon receiving a negative decision



Read letter carefully and assess the basis for the decision

If decision is unclear, contact editor for clarifications/guidance: dialogue is encouraged

Consider transferring to another Cell Press journal

If you appeal the decision:

- Provide point-by-point response to reviewers' concerns
- Stick to the scientific issues
- Indicate how issues could be addressed experimentally
- Be reasonable in assessing the situation
- Editors may return to reviewers for guidance
- Editors may enlist new experts for advice

Transfer process



Goal: to help you find a place to publish your paper within Cell Press as quickly and smoothly as possible

- Entirely author-driven process
- Can take place whether or not paper was sent out for peer review at the initial journal
- If the paper is transferred after peer review at the original journal, the reviews and reviewer identities are transferred with the paper
- Authors can revise the paper before transfer to next journal
- Contact editors at next journal with any queries

After acceptance



Authors and editors celebrate!!!

But the work isn't quite finished...

- Organize final files according to instructions and final resubmission checklist
- Copy-editing and page layout
- Online and issue publication
- Article promotion through Preview articles, author audio or video interviews, press releases, website, and social media





Innovation and community building

Innovating in content delivery



Cell

Current Issue

FREE FEATURED PERSPECTIVE

Table of Contents

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ARTICLE

Identifying and Interpreting Neanderthal Ancestry in Individuals

Many and others

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Events &





Cell Press 5 Cancer

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What are STAR Methods?

			
STRUCTURED	TRANSPARENT	ACCESSIBLE	REPORTING
"STAR Methods are organized logically."	"STAR Methods have all the information I need."	"STAR Methods are easy to access & comprehend."	"STAR Methods are key to good science."

Posted: 27 Feb 2020
Sneak Peek Status: Under Review

One Earth (12)
Structure (44)

Cell Mentor



A new online resource from Cell Press and Cell Signaling Technology that empowers early-career researchers with career insights, publishing advice, and experimental techniques

- advice from editors on what to do and how to do it when you're ready to publish your work
- insights from working scientists in our network
- tips from career experts
- video tutorials on experimental procedures, protocols, and methods



Encouraging dialog and connections



CROSSTALK

CellPress

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Webinars

Microbi

Friday, February 7
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Broad Institute
415 Main St.
Cambridge, MA 02142
USA

Organizers
April Pawluk, Science
Amanda Monahan
Curtis Huttenhower

The development of
cultivation-independent
from their indigenous environments has brought microbial

OUR NETWORK IS YOUR NETWORK

Powered by people in the know. Like you.

Need-to-know topics, editorially curated

World-class presenters, experts in their field

Moderated by Cell Press editors

Feedback

CELL PICTURE SHOW
Eye of Science
Meet SEM artists h
Meckes, a.k.a. eye



CellPress
Science that inspires

Thank you for attending

Q & A

For more information



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