Inside Publishing:

How to resonate with your scientific community

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October 22, 2014
Where to publish and what to consider

• The Publishing Cycle
  ▪ The Publisher
  ▪ The Journal
    o What community do you want to reach?
    o What does your community find important?
    o Impact v. Impact Factor

• AIP Publishing
  ▪ Who we are and what we offer
  ▪ How we can help you reach your community
  ▪ How to get published
The Publishing Cycle

*Source: STM Report 2012*
The Journal

The journal has traditionally been seen to embody four functions:

- **Registration**: Recording the authoritative date of receipt of the paper. Ownership of an idea.

- **Certification**: Validation of work and quality control through peer review.

- **Dissemination**: Communicating the findings to its intended audience usually via the brand identity of the journal.

- **Archival Record**: Preserving a fixed version of the paper for future reference and citation. Long term preservation!
The importance of the Journal

community
/kəˈmjuːnəti/
noun

1. a group of people living in the same place or having a particular characteristic in common.
   "Rhode Island's Japanese community"
   synonyms: group, body, set, circle, clique, faction;  More

2. a feeling of fellowship with others, as a result of sharing common attitudes, interests, and goals.
   "the sense of community that organized religion can provide"
Journal Selection: How do you choose where to publish?

Let’s take a look at the Numbers.....

~ 26,000 Journals
- > 7,400 Journals in the Physical Sciences
- > 6,400 Journals in the Health Sciences
- > 7,600 Journals in the Social Sciences
- > 4,400 Journals in the Life Sciences
What does the community really think?
What do authors say they want from a journal?

1. Journal is the best fit for my research
2. Perceived prestige/reputation of the journal
3. Prior positive experience with the journal
4. The journal is widely read by my peers
5. Impact factor of the journal

Percentage of importance:
- Not Really Important
- Important/Vital
What does the community REALLY want?
When asked to select the top 3 factors from the list below which are the most important to you when deciding where to submit your research.

1. Positive Prior Experience With the Journal
2. Perceived Reputation of the Journal
3. Journal is the best fit for my Research
4. Impact Factor of the Journal
5. The journal is widely read by my peers
• What can we say about the IF?
  - It is a metric we all know and love...
  - It’s imperfect but...

  - We have to take it into consideration
    - Tenure
    - Potential jobs
    - Increased visibility to *certain* communities

But it isn’t everything!
This is Axel Becke...

- JCP IF = 3.122
- Angewandte Chemie IF = 11.336

46,184 citations

353 citations
Journal Selection: It’s not easy!

• Questions you should ask yourself…
  ▪ Is this journal widely read by my peers?
  ▪ Is the Journal the best fit for my research
    ▪ Visit the journal homepage, assess their focus and coverage
    ▪ Peruse abstracts of recent publications
  ▪ Reputation of the Publisher and Journal
  ▪ Experience publishing with the Journal
AIP Publishing: Best fit for your community

15 Journals
Physical Sciences at the Core

Interdisciplinary Journals
Covering Instrumentation, Materials, Chemistry, Energy, Biology, and Non-linear Dynamics, International Standards, and more!

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AIP Publishing’s three Flagship Journals represent the historical core strengths of AIP, over 80 years of top quality publications.

- **Applied Physics**
  - Launched: 1931
  - 136,103 Cites
- **Atomic, Molecular, and Chemical Physics**
  - Launched: 1933
  - 188,038 Cites
- **Applied Physics Letters**
  - Launched: 1962
  - 212,433 Cites
Our Journals: Most cited in physical sciences categories

- **#1 and #2** - APL and JAP are the most cited journals in Applied Physics

- **One out of four** citations in this category are to APL and JAP
Our Journals: Topical Strength
Specialized Journals in Physics

**AIP | Physics of Plasmas**
- 2013 Impact Factor: 2.249
- 2013 Total Citations: 22,152
- 2013 Total Articles: 1,106

#1 Journal in Google Scholar Metrics for the Plasma & Fusion Category

**AIP | Physics of Fluids**
- 2013 Impact Factor: 2.04
- 2013 Total Citations: 22,399
- 5 Year Impact Factor: 2.208

A highly cited leader in Mechanics and Fluid Physics

**AIP | Review of Scientific Instruments**
- 2013 Impact Factor: 1.584
- 2013 Total Citations: 24,499
- 2013 Total Articles: 969

An indispensable resource for researchers interested in instrumentation

**AIP | Chaos**
- 2013 Impact Factor: 1.761
- 2013 Total Citations: 4,602
- 2013 Total Articles: 189

An interdisciplinary journal in nonlinear sciences
Chaos will publish 12 monthly online issues (collated in 4 quarterly print issues) in 2015.

**AIP | Journal of Mathematical Physics**
- 2013 Impact Factor: 5.474
- 2013 Total Citations: 14

One of the most highly cited journals in Mathematical Physics

**AIP | Journal of Physical and Chemical Reference Data**
- 2013 Impact Factor: 3.108

The authoritative resource for critically evaluated reference data for physical sciences and engineering
Our Journals: Branching Out

- **AIP Journal of Renewable and Sustainable Energy**: An emerging leader in renewable and sustainable energy.

- **AIP APL Materials**: Timely publication of the best original research in functional materials science.

- **AIP Biomicrofluidics**: An emerging leader in micro- and nanofluidics at the interface of physics, chemistry, and biology.

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Our Open Access Journals

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Launched: 2011
Launched: 2013
Launched: 2013
Publishing with our Journals

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  ▪ Rapid Communications
  ▪ Original Full Length Articles
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3. Incorporate reviewer feedback into your research within 10 days
4. Race from acceptance/decision to publication in 16 days

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Special Content: Perspective Articles

- **Spotlight Collections**
  - Forward looking Perspective articles
  - Topics that are generating a great deal of interest in the chemical physics community
  - Articles are always among the most downloaded and the most cited

**Perspective: Detacting and measuring exciton delocalization in photosynthetic light harvesting**

Gregory D. Scholes and Cathal Smyth
Department of Chemistry, University of Toronto, Toronto, CA

**Abstract**: Photosynthetic units perform energy transfer remarkably well under a diverse range of demanding conditions. However, the mechanism of energy transfer from excitation to conversion, is still not fully understood. Of particular interest is the possible role that coherence plays in this process. In this perspective, we overview photosynthetic light harvesting and discuss consequences of excitation for energy transfer and how delocalization can be assessed. We focus on challenges such as decoherence and nuclear-coordinate dependent delocalization. These approaches complement conventional spectroscopy and delocalization measurement techniques. New broadband transient absorption data may help uncover the difference between electronic and vibrational coherences present in two-dimensional electronic spectroscopy data. We describe how multiparameter enslavement from quantum information theory allows us to formulate measures that calculate the delocalization length of excitation and the detail of delocalization even from highly averaged information such as the density matrix.

Special Content: Special Topics

Special Topic on the Glass Transition

This Special Topic presents a timely discussion of modern developments in our understanding of the behavior of supercooled liquids and amorphous materials. In spite of decades of intense theoretical and experimental study, the fundamental causes of vitrification are still debated. Further, a deeper understanding of the behavior of supercooled liquids and glasses will have implications in diverse fields ranging from biology (e.g., the passive transport of cellular cargo which occurs in a dense, disordered environment) to materials science (e.g., the design of amorphous materials with unique mechanical properties). We thus believe that the Special Topic on the Glass Transition will be instrumental in focusing attention on this important problem.

The Journal of Chemical Physics has made the articles in the Special Topic on the Glass Transition FREELY AVAILABLE for 30 days beginning on July 21, 2013. Click here to visit the section online and access these important articles!

Space and Astrophysical Plasmas

This short compendium of papers on space and astrophysical plasmas published in Physics of Plasmas during 2012 - 2014 provides a broad range of examples of compelling scientific advances made in this important subfield during the past several years. The selection of papers included here covers diverse topics ranging from magnetic reconnection, to kinetic effects in accretion disc plasmas, to fresh waves in white dwarfs and magnetars, to identification of potential mechanisms for breaks in the cosmic ray spectrum, to dust-driven currents in the magnetosphere of Saturn, to mention a few examples.

— Ronald C. Davidson, Editor-in-Chief, Physics of Plasmas

Special Topic: Advances in Magnetic Reconnection Research in Space and Laboratory Plasmas

Guest Editors: Patrick J. O’Neal and Robert F. Wilm


The transfer between electron and ion kinetic energy and thermal energy in colliding magnetic reconnection

S. Li, Guoqiang Gu, and Shuang Wang


The influence of intense electric fields on three-dimensional asymmetric magnetic reconnection

P. L. Proctor


Excitation and propagation of electromagnetic fluctuations with energy-dependent range of frequency in magnetic reconnection laboratory experiment

Michael Freeman, Robert Kunkels, Michael Pfister, Yashoda Chor, and Tim Sneyd


Aspects of collisionless magnetic reconnection in asymmetric systems

M. L. Hillier, R. A. Korr, and J. S. Weatherall


FOCUS ISSUE: Chaos and Fluid Motion

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Chaos: An Interdisciplinary Journal of Nonlinear Science

Special Section: Colloidal Fluid Motion

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Perspective: Reaches of Chemical Physics in Biology

Martin Gruebele  Dave Thirumalai

Perspective: Bimolecular chemical reaction dynamics in liquids

Andrew Orr-Ewing

REVIEW PAPER:
The microphysics and macrophysics of cosmic rays
Ellen G. Zweibel
DOI: 10.1063/1.4807033
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  • Award recognizes significant contributions by emerging authors in microfluidics and nanofluidics

• **François Naftali Frenkiel Award for Fluid Mechanics**
  • Sponsored by Physics of Fluids
  • Award recognizes significant contributions in fluid mechanics by young investigators.

• **Earle K. Plyler Prize for Molecular Spectroscopy & Dynamics**
  • Sponsored by The Journal of Chemical Physics
  • recognize and encourage notable contributions to the field of molecular spectroscopy and dynamics.

Call for Nominations: JCP Sponsored 2015 Plyler Prize


Below are some publications from previous Plyler Prize winners. These articles will be freely available for a limited time.
Final thoughts...

• Know your Publisher
• Understand the community you want to reach and research your journal
• Take into consideration what your community finds important, what you find important, what you use and read as a researcher
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    ▪ From broad journals to topical journals to niche journals
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  ▪ Come and join our COMMUNITY!