



# Scientific Journals on the Web

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Rowland Institute for Science

Annual Review - May 4, 2000

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# Overview

- Current Status of Scientific Web Journal Publishing
- Current Issues for Web Journals
  - Issues for Scientists, Libraries and Publishers
  - Trends and New Initiatives
- Where We Fit In
  - Finding
  - Getting
  - Keeping

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# HTML and PDF

- HTML
  - Publishers can add content and value not available in other formats
- PDF
  - Exact reproduction of hard copy
  - Used for printing, especially with color figures

# HTML of an article Online

Netscape: Biophysical Journal -- Chen and Berg 78 (5): 2280

Biophysical Journal

Absorbance, Fluorescence, and CD Spectrophotometers

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Biophys J, May 2000, p. 2280-2284, Vol. 78, No. 5

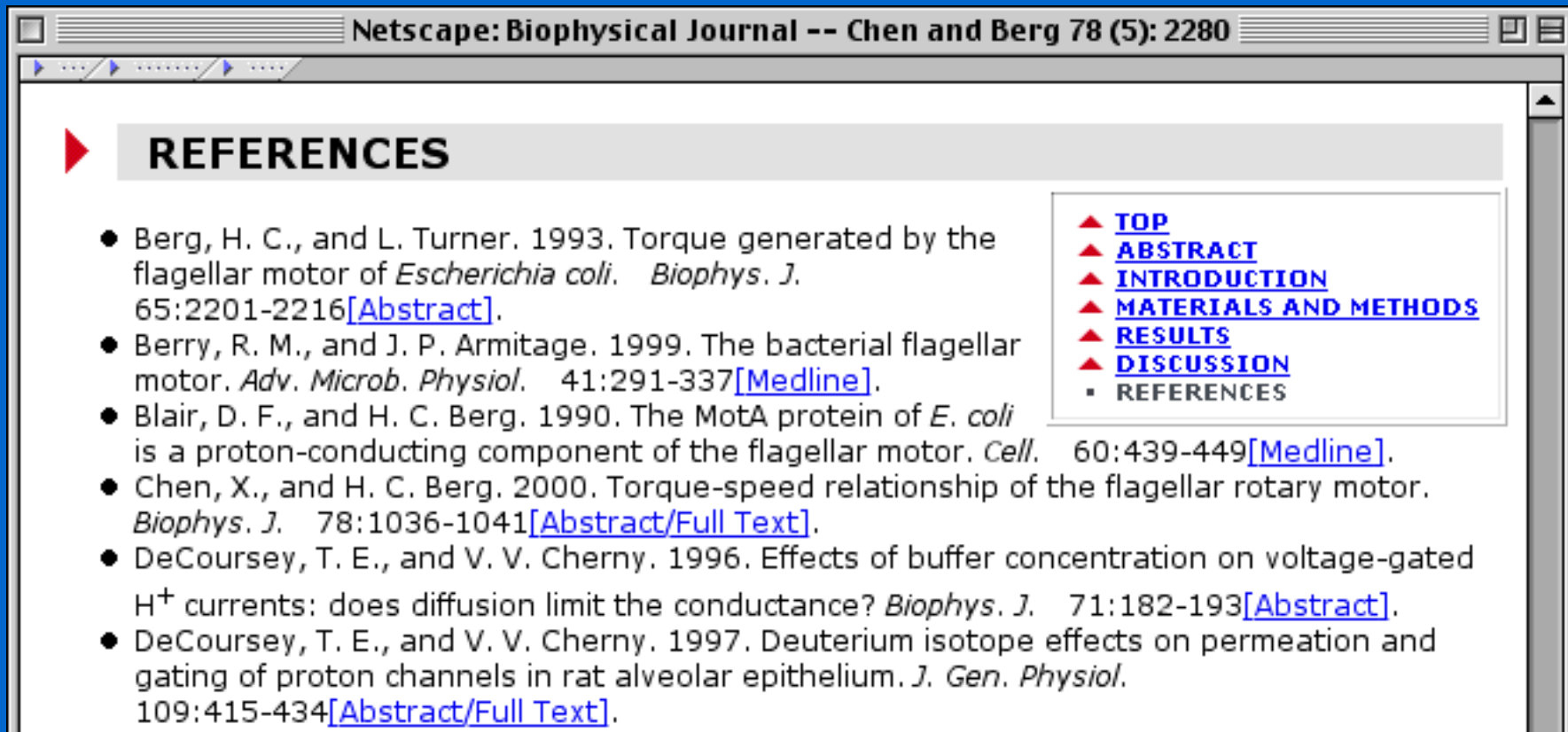
**Solvent-Isotope and pH Effects on Flagellar Rotation in *Escherichia coli***

**Xiaobing Chen and Howard C. Berg**

Department of Molecular and Cellular Biology, Harvard University, Cambridge, Massachusetts 02138, and Rowland Institute for Science, Cambridge, Massachusetts 02142 USA

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# Reference Linking



Netscape: Biophysical Journal -- Chen and Berg 78 (5): 2280

## REFERENCES

- Berg, H. C., and L. Turner. 1993. Torque generated by the flagellar motor of *Escherichia coli*. *Biophys. J.* 65:2201-2216[[Abstract](#)].
- Berry, R. M., and J. P. Armitage. 1999. The bacterial flagellar motor. *Adv. Microb. Physiol.* 41:291-337[[Medline](#)].
- Blair, D. F., and H. C. Berg. 1990. The MotA protein of *E. coli* is a proton-conducting component of the flagellar motor. *Cell.* 60:439-449[[Medline](#)].
- Chen, X., and H. C. Berg. 2000. Torque-speed relationship of the flagellar rotary motor. *Biophys. J.* 78:1036-1041[[Abstract/Full Text](#)].
- DeCoursey, T. E., and V. V. Cherny. 1996. Effects of buffer concentration on voltage-gated H<sup>+</sup> currents: does diffusion limit the conductance? *Biophys. J.* 71:182-193[[Abstract](#)].
- DeCoursey, T. E., and V. V. Cherny. 1997. Deuterium isotope effects on permeation and gating of proton channels in rat alveolar epithelium. *J. Gen. Physiol.* 109:415-434[[Abstract/Full Text](#)].

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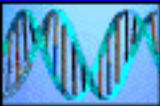
# Timeliness

- Delays (mailing, missing issues) avoided
- Article is independent from the issue
- Papers published upon *acceptance*
  - ACS: As Soon As Publishable (ASAP)
  - PNAS Early Edition

# PNAS Early Edition

Netscape: PNAS -- Early Edition Articles (date view)

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# Reliability



Published Articles ● All Issues

## Table of Contents for

S

V

L

K

Keogh, M. Inasaka and Ellen B. Williams

*Facet growth due to attractive step-step interactions on vicinal Si(113)*

[\[Abstract\]](#) [\[Full text\]](#) (PDF 243 Kb)

L281-L286

L287-L292



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Try connecting again later.

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# Money Matters

- Electronic access contingent upon print subscription
- Electronic version costs 10-100% more than print
- No consistent pricing structures across publishers

# Archiving Issues

- Why do we still get titles in print?
- Licensing access to virtual data located remotely
- Publishers are not guaranteeing long-term access

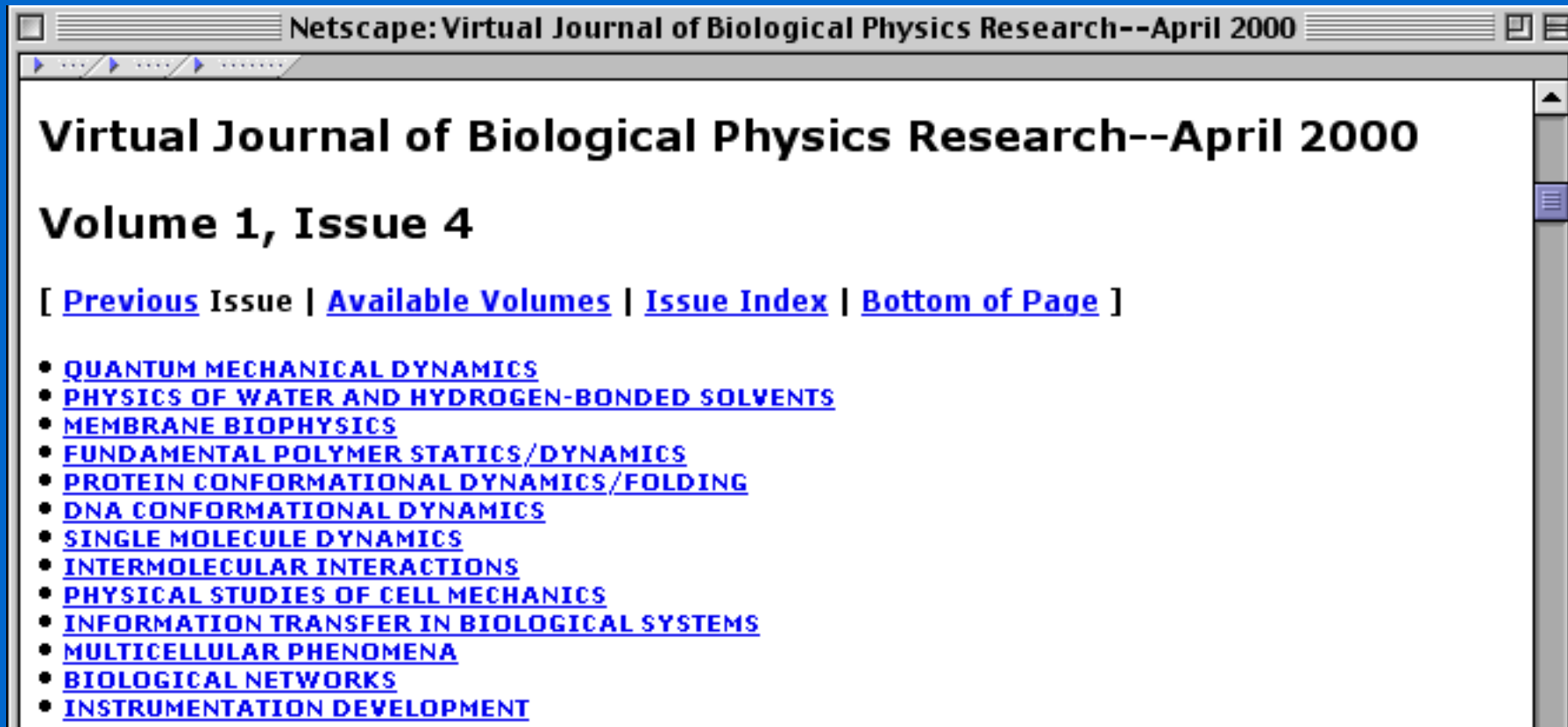
# Who Is Archiving?

- APS: Physical Review OnLine Archive (PROLA)
  - <http://prola.aps.org>
- Stanford University: Lots Of Copies Keeps Stuff Safe (LOCKSS)
  - <http://lockss.stanford.edu>
- Highwire Press
  - <http://highwire.stanford.edu>

# Commercial & Society Publishers

- Variations on the journal
- Online Clubs
  - BioMedNet - <http://www.biomednet.com>
  - ChemWeb - <http://chemweb.com>
- AIP Virtual Journals
  - <http://virtualjournals.org>

# VJ of Biological Physics Research



Netscape: Virtual Journal of Biological Physics Research--April 2000

## Virtual Journal of Biological Physics Research--April 2000

### Volume 1, Issue 4

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- [BIOLOGICAL NETWORKS](#)
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# Growth of Preprint Servers

- Physics: xxx (ArXiv.org)
  - Centralized, Interdisciplinary, Started in 1991
- Chemistry PrePrint Server
  - Just announced, Part of ChemWeb
- Life Sciences
  - Society Publishers afraid of losing revenues?
  - Medical community opposed to rapid communication of clinical data?
  - Sharing data in other repositories (PDB, GenBank)

# New Initiatives

- PubMed Central (NIH)
  - <http://www.pubmedcentral.nih.gov>
- BioMedCentral
  - <http://www.biomedcentral.com>
- E-Biosci (EMBO and others)
- Open Archives Project - Universal search interface for many archives
  - <http://www.openarchives.org>

# Where We Fit In

- Finding/Navigation
  - All available journals gathered centrally
  - Custom resources for each lab
- Getting/Evaluation of services
  - Most cost-effective for Rowland
  - Follow updates and changes in services
- Keeping
  - Maintain dynamic collection and develop effective ways to use it

# RIS Journals Available Website

**Library**

**About Us**

- [Services Available](#)
- [Library User's Guide](#)

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- [Web Searching](#)
- [Resources for Each Lab](#)
- [Other Library Catalogs](#)

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[T](#) | [U](#) | [V](#) | [W](#) | [X](#) | [Y](#) | [Z](#)

**A**

Journals	Complete	Incomplete	Web Access
<a href="#">Accounts of Chemical Research</a>	'68-Present		
ACM Journals:			
<a href="#">Communications of the ACM</a>	'83-Present	'82	Abstracts Full Text - Login Required
<a href="#">Computer Graphics: SIGGRAPH</a>	'83-Present	'79, '81, '82	Full Text

# Custom Resources Pages

## Library and Online Resources for fMRI Lab

Reference Materials / Series / Electronic Journals  
/ Internet Resources

### Reference Materials

The MIT encyclopedia of cognitive sciences.  
MIT Press, 1999.

Wilson, Robert A. , Keil, Frank C., eds.  
BF 311 .M556 1999 REF

Oxford Companion to the Mind.  
Gregory, Richard L., Zangwill, O.L., eds.  
Oxford University Press, 1987.  
BF 31 .O94 c.2 REF

### Electronic Journals

Behavioral and Brain Sciences  
"Target Article" Archive 1993 -

Human Brain Mapping

Journal of Cognitive Neuroscience

### Series

Annual Review of Psychology  
BF 30 .A56 1977 -  
Online: 1997 -

Annual Review of Neurosciences  
QP 351 .A68 1978-1980; 1983 -  
Online: 1997 -

### Internet Resources

APA Style Resources

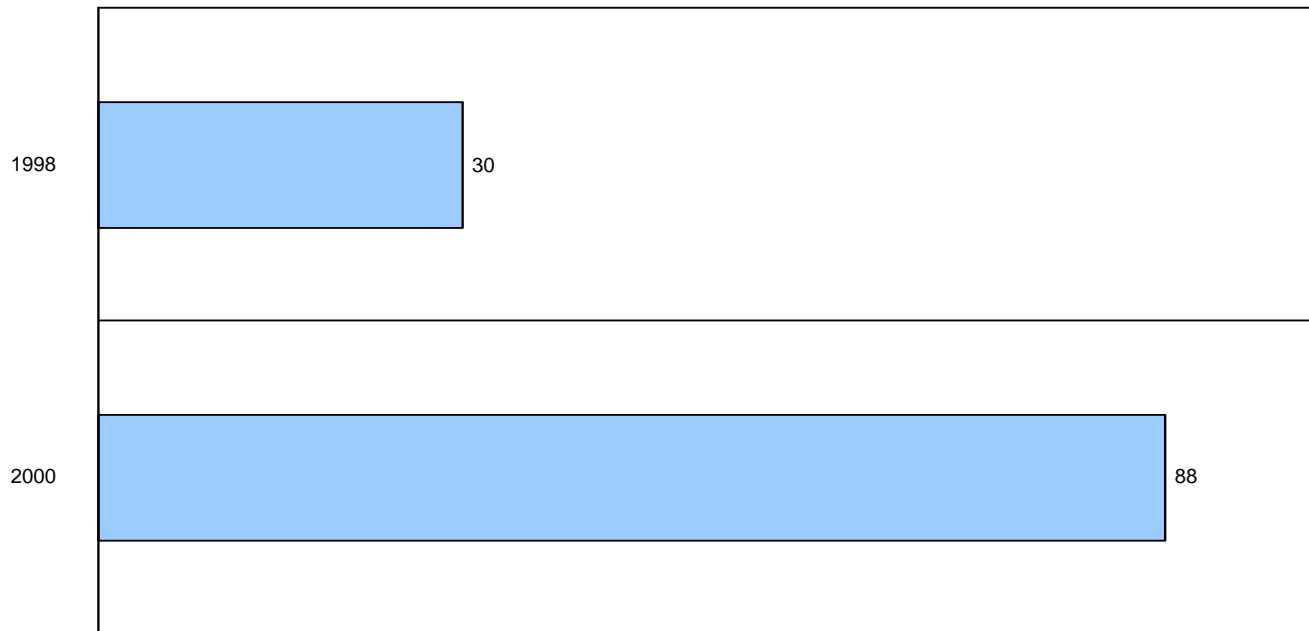
BrainLand: The Neuroscience Information Center  
-An internet community featuring news,  
discussions, product and job listings.

CogPrints  
-An electronic depository for papers in  
the cognitive sciences.

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# Online Journal Access

Full Text Journals Available Online at Rowland



# Summary

- Dynamic use of electronic environment
- New marketplace - wide variability of products
- Archiving and long-term availability uncertain
- Library plays a central role in information flow

# Future Issues

- Are we headed towards an all-electronic publishing environment?
- Will there be more freedom of access for individuals?
- Could self-publishing/archiving affect costs?
- Will publishers retain control?
- How will we interact with the information available Online?