

STAYING IN SCIENCE, WITHOUT STAYING IN THE LAB

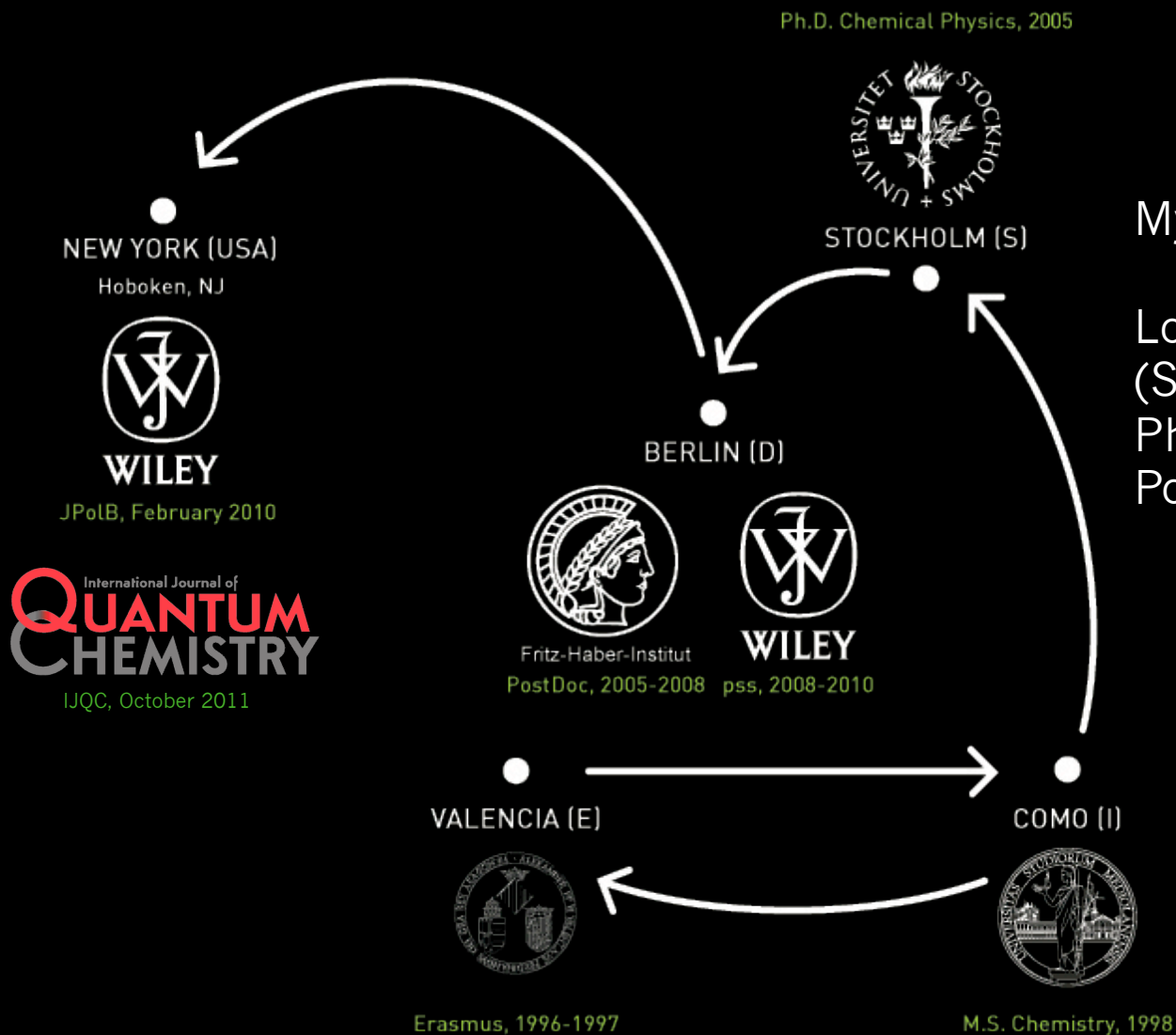
Journal Editor

WILEY

Matteo Cavalleri – Editor-in-Chief  
International Journal of Quantum Chemistry

# Who I am

HELLO, MY NAME IS MATTEO

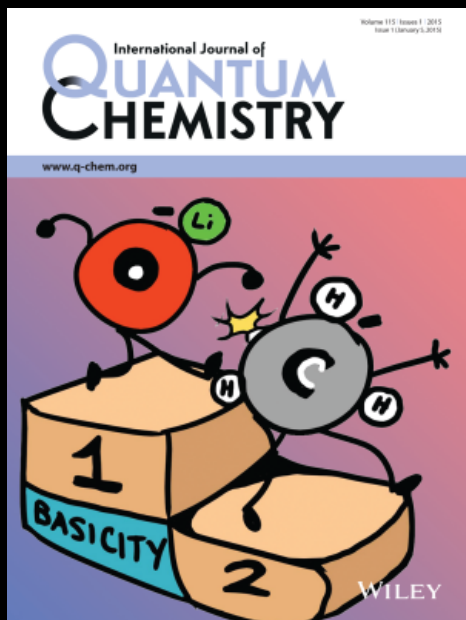


My Computational Cred:

Lots of DFT, 20+ papers  
(Science, JPC, PRB,...), a  
PhD on water, 3 year  
PostDoc...

# What I do

THE INT. J. OF QUANTUM CHEMISTRY



- Editor-in-Chief since August 2011
- Founded in 1967, in-house editorial office since 2011
- Expanded scope, new look, online only
- Rapid peer-review, then acceptance to online publication in 15 days

Free-to-read series at <http://reviews.q-chem.org> & <http://tutorials.q-chem.org>

# Where I work

JOHN WILEY & SONS, HOBOKEN, NJ

# WILEY

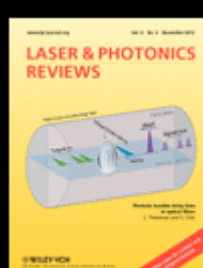
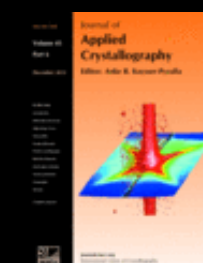
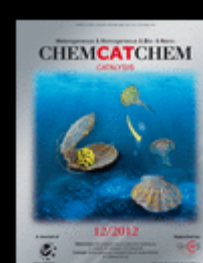
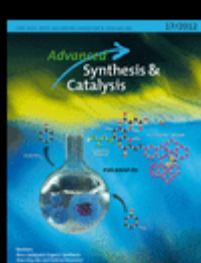
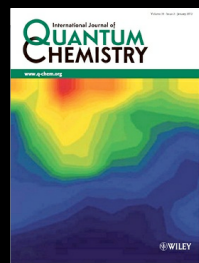
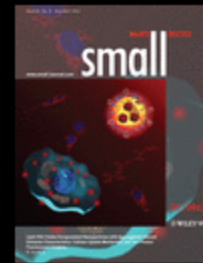
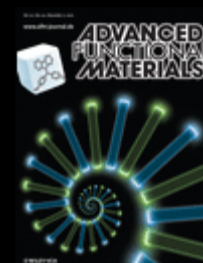
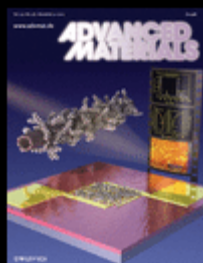
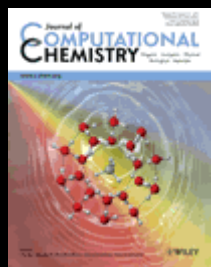
- Founded in 1807, NYC
- Headquarter in Hoboken, NJ
- Publicly listed in NYSE
- ~4000 staff worldwide
- ~1600 journals
- ~9000 books



...in partnership with 1085 organizations (865 scholarly societies, + institutes, universities, governments,...)

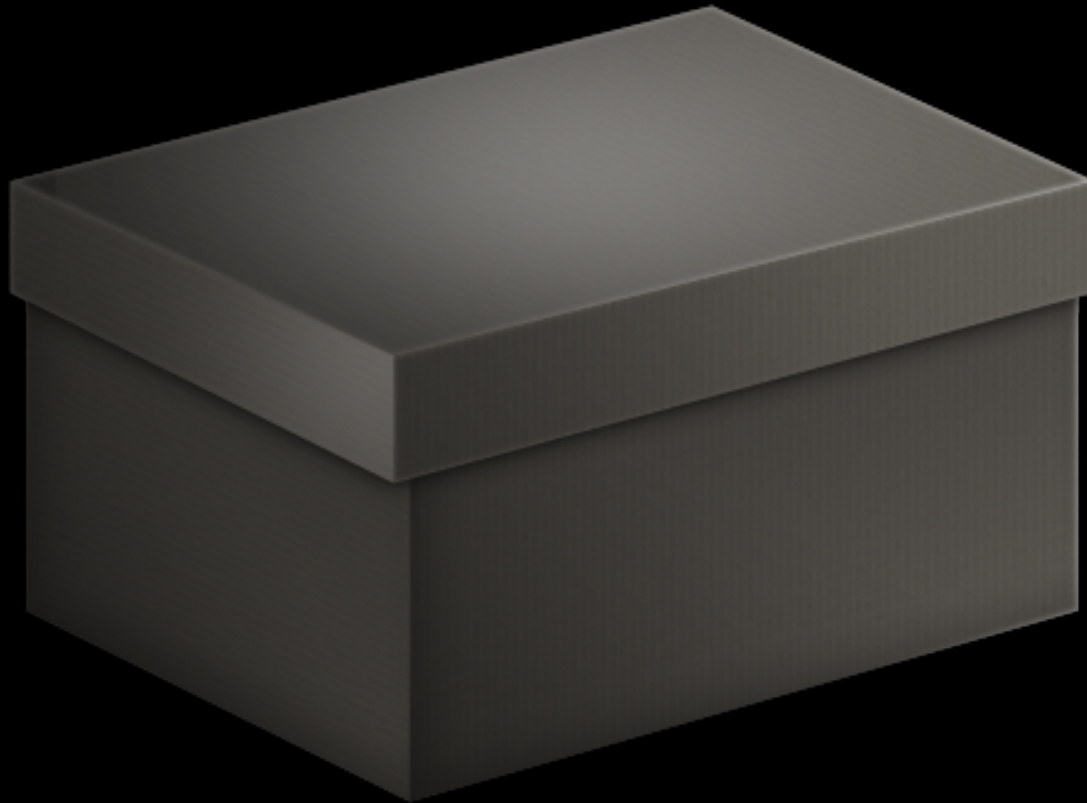
# Wiley journals

TOP-RANKED IN PHYSICAL SCIENCE



# What I do

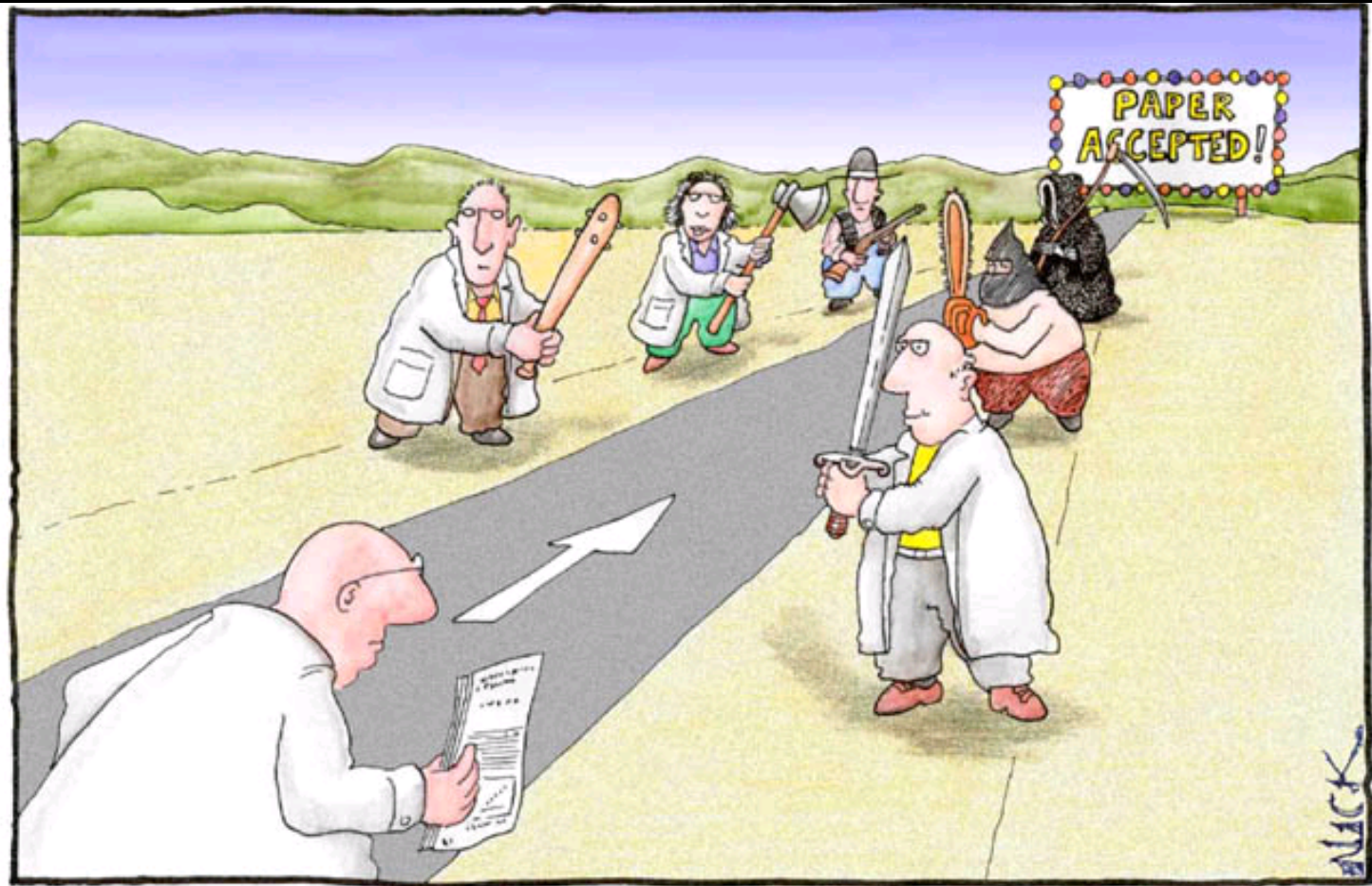
INSIDE THE PUBLISHING BLACK BOX





# What I do

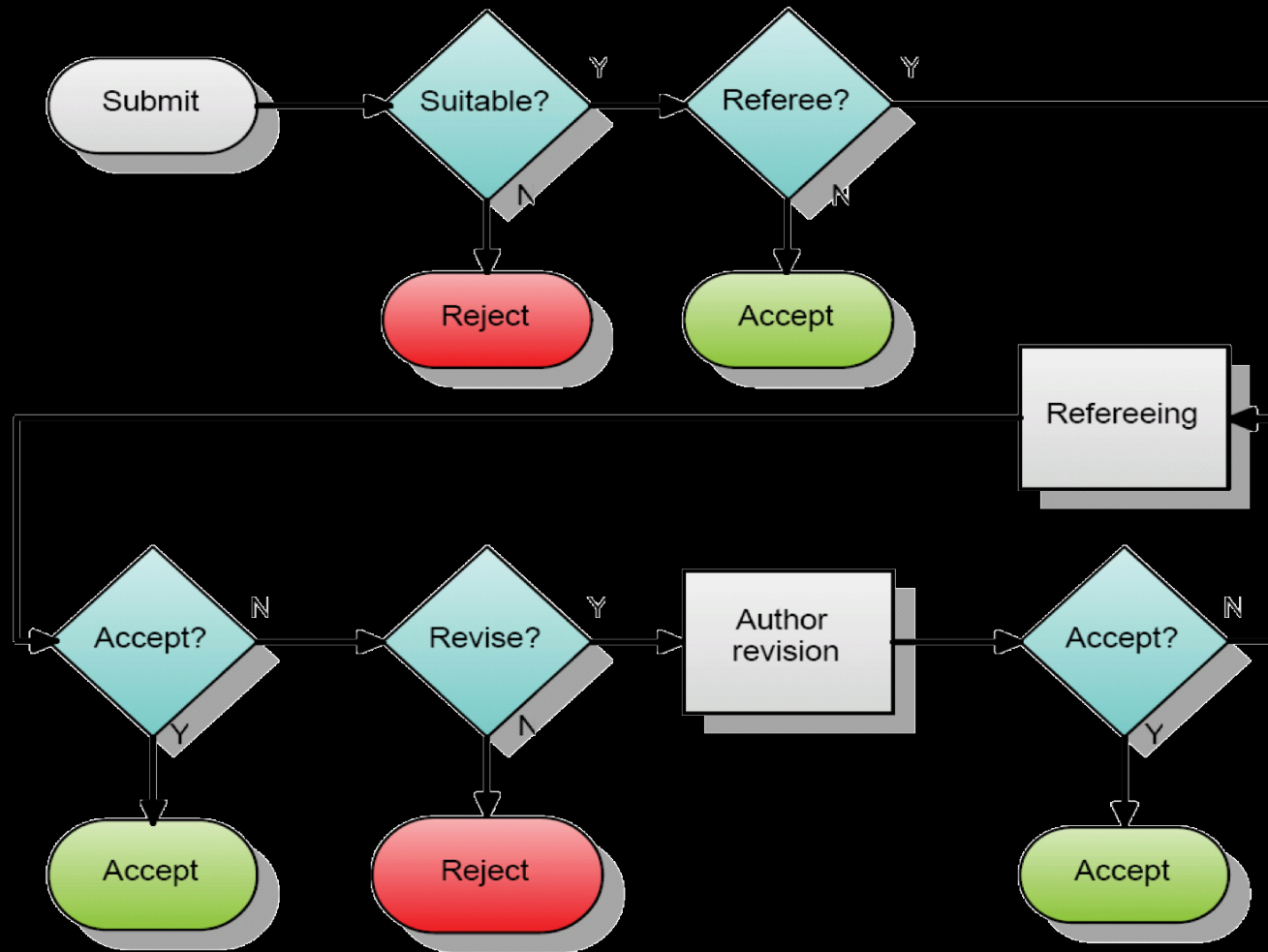
## INSIDE THE PUBLISHING BLACK BOX



Most scientists regarded the new streamlined peer-review process as 'quite an improvement.'

# What I do

## THE PEER-REVIEW PROCESS





# What editors look for?

## INSIDE PRE-SCREENING

### ALL JOURNALS

- Scope
- Format (Communication, full paper, review...)
- Understandability

### MOST JOURNALS

- Novelty
- Importance (in specific field / in related disciplines)
- Interest

Editors are not always qualified to evaluate the technical merits of manuscripts. This is the job of the referees.

# This how referees are chosen

PART SCIENCE & PART ART

- Editors' knowledge & experience
- Suggestions from authors (..within reason)
- From related papers:
  - cited manuscripts
  - literature search
- Additional research:
  - conference/lab visits
  - web search (good 'ol Google)
- Reviewer database:
  - keywords, interest, history...

# Accept, Reject or Revise?

## THE EDITOR'S JOB



### -REJECTION

- Without external referee reports (Editor)
- Based on reports

### -REVISION

- Reconsideration or resubmission possible after major revisions

### -ACCEPTANCE

- Without changes (rare)
- With minor changes

# Models of editorial office

## IN-HOUSE VS. EXTERNAL EDITORS

### IN-HOUSE EDITORS



...APS journals, some RSC, some IOP titles, CellPress...

### EXTERNAL EDITORS



...all ACS & Elsevier titles, some RCS & IOP, most Wiley journals...

# Models of editorial office

## IN-HOUSE VS. EXTERNAL EDITORS

### IN-HOUSE EDITORS

Work full time on journal – can dedicate more time and resources on new developments

General view

### EXTERNAL EDITORS

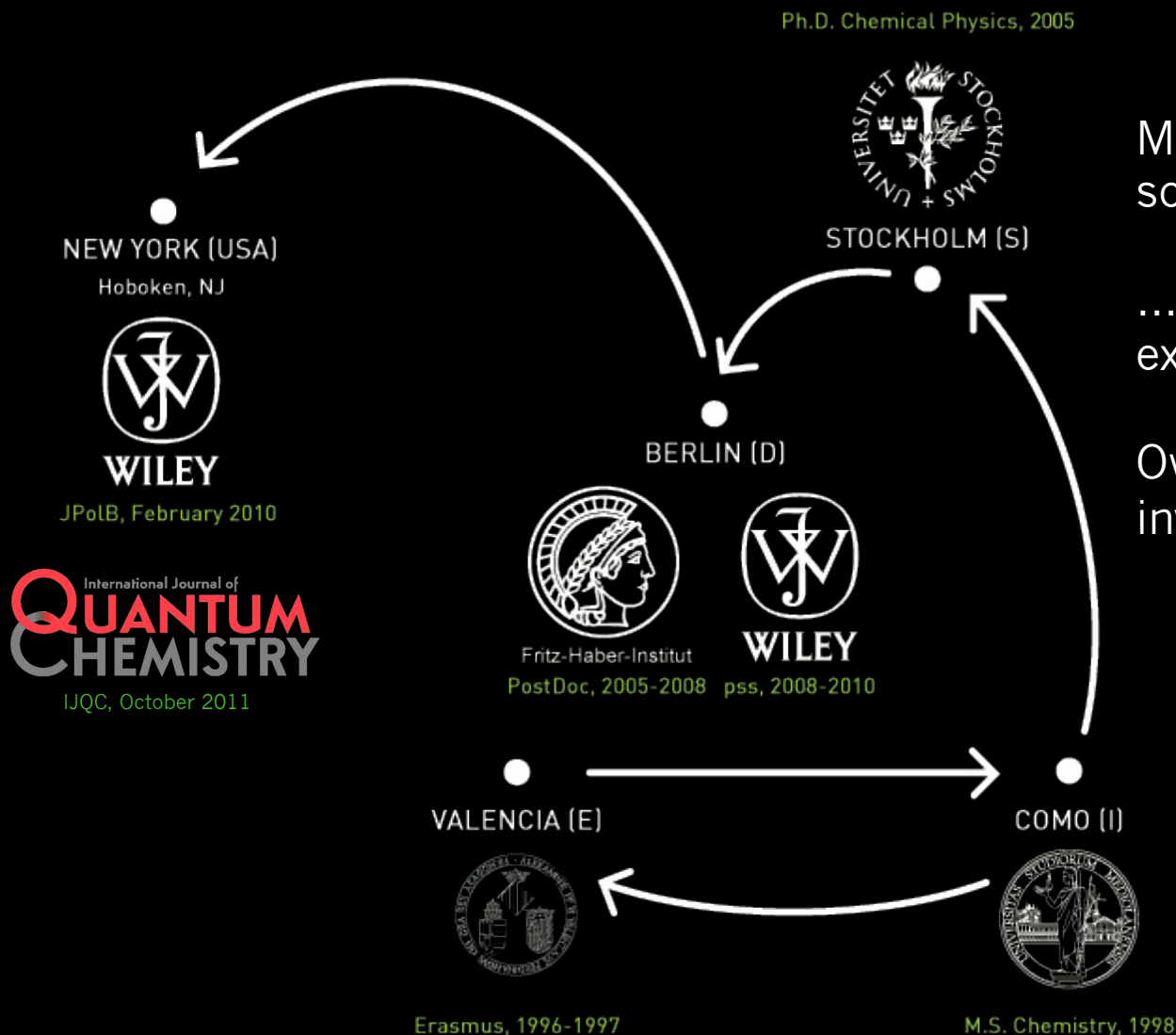
Have own research group

Expert in specific field

BOTH: peer-review, decision making, dealing with appeals, commissioning, conference participation and lab visits, writing news stories, contributing to “input” marketing ...

# Publishing is a career for PhDs

TYPICAL BACKGROUND: ME



Most editors are PhD-trained scientists...

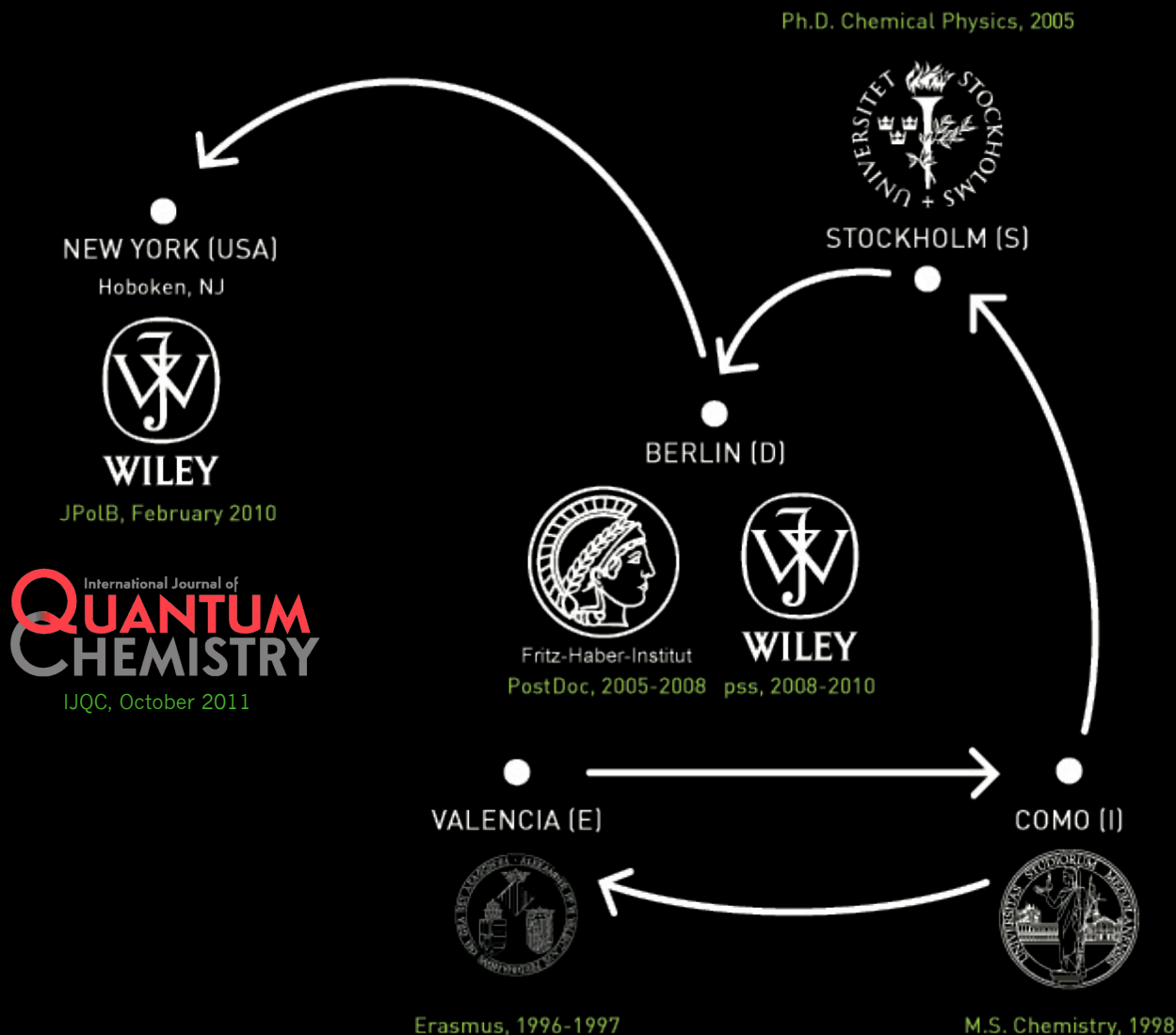
...often with PostDoc experience.

Own research experience is invaluable!



# Publishing is a career for PhDs

A REAL CAREER



Editorial Trainee



Editor

physica status solidi



Associate Editor

J. Pol. Sci.:Pol. Phys.



Editor-in-Chief

Int. J. Quantum Chem.



World Dominance?

# Types of editors

NOT JUST PEER-REVIEW

## PEER-REVIEW EDITOR

- in-house/external
- Manages peer-review, makes decision
- Commissions content

## CHIEF-EDITOR

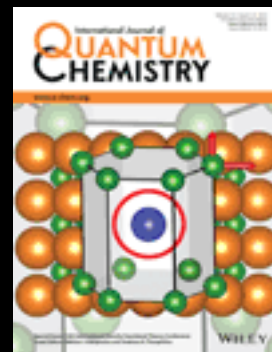
- in-house/external
- Strategy, editorial direction, new editors training
- peer-review, commissioning

## PUBLISHER

- Always in house, more experienced
- Oversee portfolio of titles
- Budgets, strategy, not directly involved in the science

# Redeveloping a journal

A DAY IN MY LIFE



- Rethink scope, standards & strategy
- LOTS of commissioning of contents
- Peer-review primary handled by associates
- "Getting the word out": conferences, newsletters, social media, news,...
- Engaging with editorial board
- Working with production, marketing, sales

# Other roles for scientists in publishing

JOURNALS, BOOKS & WEB

## IN JOURNALS

- Managing Editor (portfolio of titles, strategy & oversee peer-review operations)
- Technical Editor (handle accepted papers, copy-editing, ensure clear presentation)
- Editor of articles for broad audience, written by specialists (Nature's News & Views,...)
- Science journalist (works as freelancer)

## IN BOOK & THE WEB

- Book Commissioning Editor
- Web portal Editor (MaterialsViews.org, ChemistryViews.org,...)

Plus marketing, advertising and sales (Science education less crucial)

# Editor's career pros & cons

WHAT'S HOT & WHAT'S NOT

## WHAT I LOVE...

- It's a career at the "center of science"
- Entrusted the knowledge of entire disciplines
- Bird-eye view over science, see best results 1<sup>st</sup>!
- Contact with the scientific community
- Add & participate at the scientific debate and progress
- Plenty of (international) travel
- Real possibility of professional growth

## ...AND WHAT I WOULD DO WITHOUT

- Journal/process development can be slow and frustrating
- Angry authors are difficult to deal with
- Fraud/Ethical violations are not uncommon and very exasperating!
- Sometimes I miss coding, hacking hardware (being a "lab-rat")
- Career progression after Editor-in-Chief not easy

# What is a good editor made of?

PASSION & SKILLS

## IT MAY BE THE JOB FOR YOU IF YOU ...

- are passionate for science communication
- recognize the importance of publishing in the scientific process
- are curious about a broad range of topics & disciplines
- know the art of diplomacy and have people skills
- have analytical, and decision-making skills
- are creative, with an eye for detail (and the “next big thing”)

## ... BUT YOU WON'T LOVE IT IF YOU ...

- love being in the lab and do research
- enjoy being the world expert in a specific subject
- don't like changing topics several time a day
- hated writing your thesis

## ENGLISH IS THE LANGUAGE OF SCIENCE

- Publishing not restricted to native speakers anymore
- BUT, you need to be fluent in communicating science with it

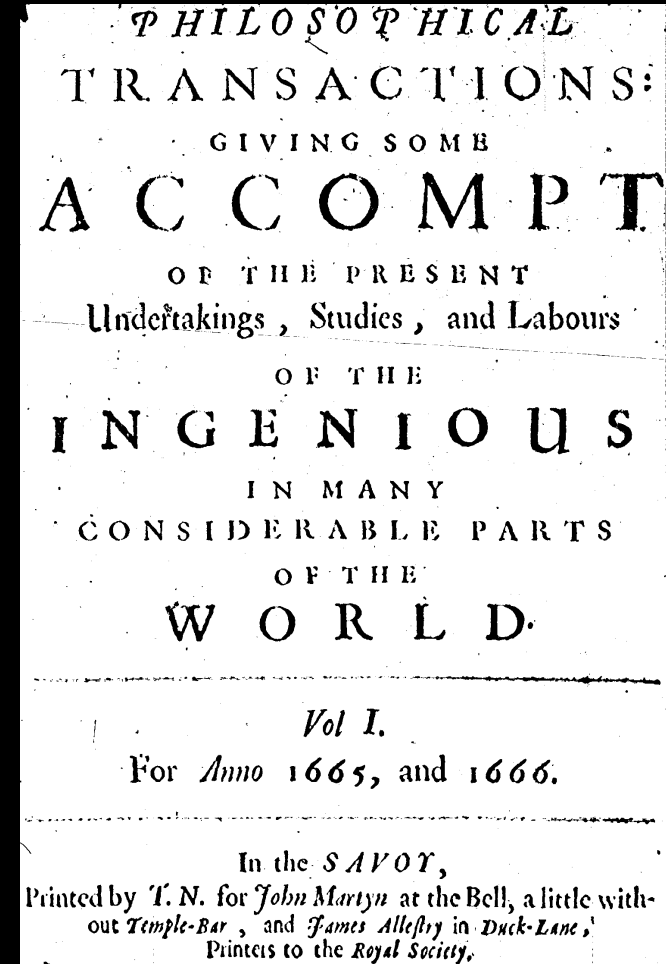


# Publishing is changing. Right now

ONLINE & MOBILE RULES

- Print is on the way out
- EarlyViews, ASAP instead of issues
- DOI is more important than page numbers
- Read papers anytime, anywhere...online
- Get real data, enriched contents, supplementary information, videos...
- Central stores, personalized journals,...

...could create new roles in science publishing...



# Publishing is changing, Right now

## NEW WAYS TO FIND PAPERS

- Papers discovered through alerts & searches of keywords, structures, ... not issues
- News sites – Chemistryviews.org, Materialsviews.org ...
- Discussion sites, forum, Nature Network, Twitter & social media
- Paper commenting; e.g. PloS One
- Conferences, Meetings,...
- Less use of issues, more Google Scholar, WoS, ...
- New ways to discuss and evaluate work. Impact Factor on the way out?

# Wiley is wonderful, really, ...

...BUT OTHER PLACES ARE AVAILABLE

-Peer-review editors wanted:



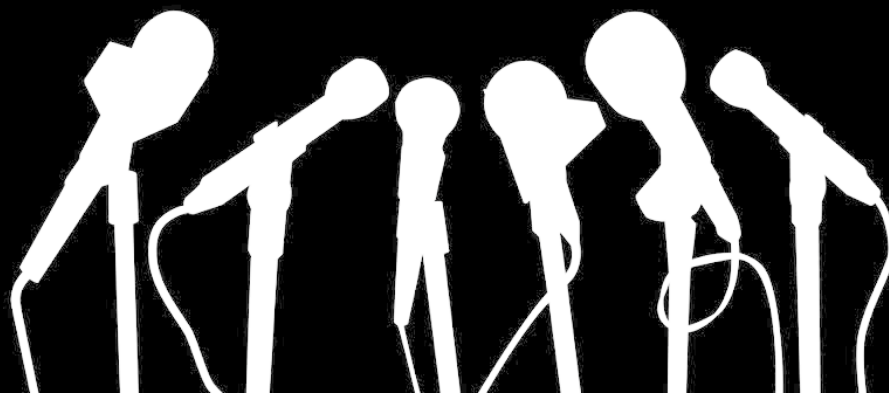
-Other roles:



and more...

# Questions? Complaints?

MCAVALLERI@WILEY.COM & ON TWITTER: PHYSICSTEO



Find IJQC at <http://www.q-chem.org>