Portfolio Planning

Baihua Wang
Senior Publisher, Greater China
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Outline

1. What is portfolio and why portfolio?
2. Physics landscape
3. JPhys Series: A, B, CM, D, G
4. JPhsys D: Scope expansion
5. JPhys CO: A new member
6. Nanotechnology and Nano Futures: Sister journals
What is portfolio and why portfolio?

- Financially, it refers to any combination of financial risk such as stocks, bonds and cash.

Why? Maximizing the expected return and minimizing the risk

- Portfolio at different level:
  - IOP: Journal + Book + Journalism
  - IOP journals: material science portfolio, applied physics portfolio, general physics portfolio, bioscience portfolio

Why? 1+1>2

- Change of research (market) → Put ourselves where research is developing
- Benefit from existing product(s) → Qualitative growth of one journal provides opportunity for further growth across associated ecosystem of journals
Physics landscape
JPhys Series: A, B, CM, D, G

Journal of Physics A: Mathematical and Theoretical
Journal of Physics B: Atomic, Molecular and Optical Physics
Journal of Physics: Condensed Matter
Journal of Physics D: Applied Physics
Journal of Physics G: Nuclear and Particle Physics
Journal of Physics Communications
Journal of Physics: Conference Series

- Shared Marketing, Production (Economy of Scale)
- Scope: covering main topics in traditional physics
- Development of physics research → Multidisciplinary, Interdisciplinary → re-define existing title + new journal

Expanded scope to two new sections on Physics of renewable energy and sustainability & Biophysics

Why?

- Feedback from editorial board to maintain board in relevant subject areas
- Energy physics, devices and materials are hot topics covering everything from photovoltaics to thermoelectrics to battery technology
- Major conferences started including energy topics in their programmes
- Grow the journals in terms of no. of articles

How?

- Leveraging the existing reputation – ensure submission for new sections

Added the new section scope

Physics of renewable energy and sustainability

- Energy generation, conversion and storage
  - biofuel and biomass power sources
  - photovoltaic and solar fuel science
- wind/wave/tidal/oceanic/hydro-based power sources
- energy harvesting and storage technologies
- hydrogen production and fuel cells
- geothermal power and heat pumps
- nuclear sciences based power cycle
- Sustainability and resources:
  - desalination and water treatment
  - renewable energy based transportation
  - waste disposal, recycling and reuse
  - carbon capture sciences
  - recyclable, biodegradable, low toxicity and sustainable materials
  - renewable sources for carbon based materials

Added new Section Editor and Sub-Board

Commissioned topical reviews and special issues

**TOPICAL REVIEW • FREE ARTICLE**
A discussion on the origin and solutions of hysteresis in perovskite hybrid solar cells

Dae Ho Song¹, Min Hyeok Jang¹, Min Ho Lee¹, Jin Hyuck Heo¹, Jin Kyoung Park¹, Shi-Joon Sung², Dae-Hwan Kim², Ki-Ha Hong³ and Sang Hyuk Im³
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Special issue on Solar Fuels

Guest Editors
Esther Alarcon-Llado, FOM Institute AMOLF, Amsterdam, The Netherlands
Miguel Modestine, Ecole Polytechnique, Lausanne, Switzerland

Scope
At present, a lack of reliable sources of clean energy and global warming are presents one of the biggest environmental threats to the environment. The Sun is the largest sources of clean energy that and could supply the world's current power demand. Artificial photosynthesis devices are a promising solution to increment solar energy deployment, as they can directly convert sunlight into storable energy-rich compounds such as hydrogen, hydrocarbons or alcohols. This complex energy conversion mechanism involves several processes that need to occur simultaneous and within compatible conditions: light capture, electronic transport, electrocatalytic fuel generation, ionic transport and product collection. Within this special issue, we will include contributions covering all of these processes related to solar fuel production:

Set up a promotional webpage, produced flyers and sent sequential mass emails
JPhys Series: A, B, CM, D, G – Jphys CO

Launched Jphys CO as a new member to Jphys family in 2017

Why?
- Development of physics lead interactions of fields other than traditional topics → a journal embracing all physics
- Adapt to Europe OA policy and preference of authors
- New revenue stream as APC

How?
- Scope: all topics in physics + high standards of scientific rigour, contributes to the development of knowledge in physics (including negative results), doesn’t make a subjective assessment on potential future significance
- Transfer: offer authors to transfer of a manuscript from another IOP Publishing journal, where it does not fit that journal's scope or significance criteria. Articles are transferred along with peer review reports to save time and avoid duplication of work for referees.
Nano Futures and Nanotechnology

Why?

- *Nanotechnology* (NANO) was the first journal in the world dedicated to nanoscience, launched 27 years ago.
- Impact Factor has remained essentially stable at ~3.5 due to the high volume of articles (1,000+/year).
- Growth over last two years has been due to direct commissioning efforts of NANO team (not scalable through one title).
- One of IOP’s core journal in a field that is one of the largest (and most competitive) in materials science, and single-handedly compete in terms of market share and Impact Factor.
- We need something to go along with NANO.
Nano Futures and Nanotechnology

How?

- Launched Nano Futures in April 2017
- A high rejection rate journal, aim for high Impact Factor
- Feature: ‘Shape the landscape’ - high urgency work that will define the future direction of new and emerging fields across nanoscience, with the expectation for lasting scientific and technological impact
- Monitor citation of NANO to ensure the success of new journal (no. of articles, citation etc)
- Shared board, EiC
- Shared experiences on commissioning
- Transfer: submissions that do not meet the journal's criteria may be transferred at the discretion of the editors (with author approval) to NANO
- Preferential article-specific promotion through dedicated science news channel
Go Back to Why We Need Portfolio and How?

Put ourselves where research is developing, and qualitative growth of one journal provides opportunity for further growth across associated ecosystem of journals.
Thanks

Baihua Wang
Baihua.wang@iop.org