## **IOP** Publishing Highlights report

### A note from Steven Hall, managing director

At the beginning of 2020, IOP Publishing's directors set an objective for the year of conducting a full-scale test of our business continuity plans: howwell would we keep our services running if, say, our UK head of ce burned to the ground? Little did we know that we would be forced by the pandemic from all our of ces, in the UK, USA, China, Japan, and Russia, for most of the year. So how did we do in our real-life test?

We did remarkably well. Thanks to investments in our digital infrastructure over several years, we were able to move to home working almost seamlessly. There was, of course, much paddling below the surface, with our technical and facilities colleagues delivering laptops, monitors, of ce chairs and the like to the homes of our staf. We metour first priority, of enabling our employees to work safely and effectively from home. Our next priority was the maintenance of our services to authors, reviewers, librarians, conference organisers and publishing partners.

In spite of an increase in published articles in our journals, our peer review team maintained its service levels to researchers, actually reducing the time taken for peer review over the course of the year. Our technology, sales, and customer services staf turned their attention to supporting libraries around the world to provide their users with remote access to IOP Publishing's publications. Conference organisers also adapted quickly to this newworld, and while some conferences were cancelled, others sprang up. We moved our own 'Quantum 2020' conference, organised in partnership with the University of Science and Technology of China and the Chinese Physical Society, originally planned to be held in China in October, to a successful virtual event with nearly 4, 500 registrants. We further grewopen access publishing in our journals, increasing the number of articles in ourre tion process and help us to make journal articles more discoverable and usable. We also launched our peer review training and certification programme, the only one in the world designed specifically for the physical sciences, and avarded 'IOP trusted reviewer' certificates to the frst 7,000 reviewers.

Another important objective for 2020 was to continue to make our publishing more representative of the communities we serve, by increasing the gender, racial and geographical diversity of our editorial boards and reviewers. We moved a number of journals to double-anonymous peer review in 2020 and made a commitment to move all the journals we manage editorially to double-anonymous peer review by the end of 2021. Our broader work in this area will accelerate in 2021 and we will also increase our efforts to make our own workforce more representative of the communities we live in.

We entered 2021 with all but our Chinese colleagues still working from home and, while the rollout of vaccines gives us hope, we are likely to be operating under restrictions for many months to come. It will be a challenging year, not least for our library customers, some of whom are struggling with reduced budgets and many of whom are investing to support online teaching and learning. We look forward to working together with them to address these challenges.

This will be my final contribution to IOP Publishing's annual report, as after almost eleven years as managing director, I shall retire from the company at the beginning of March. It's been a great disappointment to me that I have not had the chance, during this last year, to thank my colleagues and IOP Publishing's customers and partners in person for their support and friendship during my time with the company. I have enormously enjoyed serving the research and library communities and working with my publishing colleagues during my time at IOP Publishing and I leave the company in very good hands.

## Strengthening our leadership team – introducing our new directors

The appointments of Julian WIson as our newsales and library marketing director and Mriam Maus as our publishing director give us a fresh leadership perspective as we look to the opportunities and challenges ahead.

, publishing director

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, sales and marketing director

### Making science more open and accessible

Throughout the year our contribution to open physics has developed in collaboration with researchers, librarians, partner societies, and funders. Making science open and accessible is the key to accelerating scientific discovery. Our commitment to open physics is about howwe disseminate high-quality research, increase its visibility, and encourage reproducibility and access to data. It is also our promise to ensure inclusivity and improve diversity at every step of the publishing process.

2020 saw us increase our open access journal portfolio with the launch of three gold open access journals: Materials for Quantum technology, Neuromorphic Computing and Engineering, Environmental Research: Infrastructure and Sustainability

Launched in 2006 with the vision of inspiring collaboration between the research and policy communities, Environmental Research Letters (ERL) has grown to become a signif cant leader in the feld, bringing key event-based research to the global stage. In 2020, the number of ERL articles published grewby 52%, with 869 articles published.

Following our announcement in 2019 that we would be fipping Materials Research Express to fully open access, all articles published in the journal throughout 2020 have been immediately free to read under a Creative Commons licence. The move has been well received by the community, with submissions from over 70 countries and we've seen increased average downloads per article, with some being downloaded and read over 2,000 times.

We can play an important role in the way that research quality is understood and howresearchers are recognised for their scientific contributions. Signing DORA in October a firmed our commitment to raising standards and creating a more equitable research evaluation system.

During the year we negotiated seven newtransformative agreements and we nowhave 16 in place in 11 countries. These agreements are essential to ensure that authors in countries where open access is mandated can continue to publish freely in our journals. In addition, we negotiated the inclusion of the partner journals that were previously unable to include into the majority if our existing agreements.

We joined forces with 17 other major physics societies to showour commitment to open access for physics research. Our common ambition is that all open access models provide f nancially sustainable support for author choice and the quality of peer review and publication upon which excellent physics research relies. Read our joint statement here.

Our move to double-anonymous peer review, which we announced in September, sawus become the first physics publisher to commit to adopting the approach portfolio-wide and afirmed our commitment to improving diversity and equity in science.

Following a successful trial with three of our journals, transparent peer review – which shows the complete peer review process from initial review to f nal decision – was rolled out to other titles: Environmental Research Communications, IOP SciNotes, JPComplexity, JPEnergy, and JPPhoton. We believe that double-anonymous review in combination with transparent review allows for maximum objectivity during the review process and maximum transparency after publication.

We are a founding member of the 'Publishing Equality Working Group' which sees leading publishers commit to working together to make research publishing more inclusive and diverse. The 11 publishers that make up the group have agreed to pool their resources, data and knowledge to set a newstandard for diversity and inclusion in scholarly publishing.

17

22%

121% 70,000 17 52%

Meeting the evolving needs of our customers

The introduction of a newcontent model sees the latest publishing and technology standards improve the way we capture, store, process and distribute content published online. To date, we have migrated over 1 million articles to the Journal Article Tag Suite (JATS) content model. Along with making our journal articles more useable and discoverable, the move will help to make our production processes more efficient.

In November, we released a newfeature into our 'Track My Article' tool that allows authors to easily check the status of their articles using WeChat. Through this tool, authors receive information about where their paper is in the peer review process in seconds via the social media platform on their mobile devices.

Recognising the importance of combining peer review rigour and excellence with efficiency and speed, 2020 again sawus ensure the rapid dissemination of our authors' work.

Speed of publication

# 21 days 84 days 31 days 840,000

Citations to our journal content increased signif cantly in 2020 refecting the continued value and relevance of the research we publish in driving neuvadvancements across the physical sciences.

1.3 million

### 7.7%

Our established ebook programme now features over 570 books in 15 subject areas and our titles are available in over 1,000 libraries globally. In July, we extended access to the programme with the launch of our online bookstore making all the titles in the collection available for authors and other individual to purchase. There was a high demand for our ebook content with more than 1.6 million downloads, an increase of 41% on 2019.

Our Conference Series titles are three of the largest journals in science and published more than 70,000 open access proceedings articles in 2020.

Towards the end of 2020, we finalised an agreement with Morressier to provide us with workflow tools that will enable us to more effectively manage the Conference Series publishing process and to enhance the range of services we of er to conference organisers.

Across IOP Publishing's three magazines, , during 2020, to over 44,000 readers in 141 countries. The 2020 with an average of more than 445,000 users per month. and , over 417,000 magazines were delivered website received over 10 million pageviews throughout

### Ensuring high-quality, timely, rigorous and ethical peer review

High-quality peer review has never been more important to validate the science we publish. We have more than 60 staf worldwide managing the peer review process and we are constantly looking at how we can improve the process and of ermore support to reviewers.

In July, we released the findings of our peer review motivations report. The information we gathered from the survey, with responses from 1, 200 reviewers globally, helps us to understand the reviewer experience, what motivates them, and their recognition needs. One finding of the report was the ongoing concern about mis-matched reviewer invites and reviewer fatigue which is one of the key drivers for the launch of our peer review training and certification programme.

59% 55% 25% Our Peer ReviewExcellence: IOP training and certification is a first-of-its-kind programme tailored specifically for the physical sciences which helps early career researchers develop their confidence and their ability to give constructive feedback. Co-delivered by top-level physicists, the programme of ers a blend of online learning and hands-on peer reviewexperience. Achieving 'IOP trusted reviewer' status demonstrates an exceptionally high level of peer reviewcompetency.



We are strong proponents of the early sharing of research results as preprints and in 2020 we began trialling an option for authors to list and link to their preprints while under peer reviewat the journal. This enables earlier and wider visibility of research for authors without compromising on peer reviewstandards.

### Acknowledging the vital contributions of scientists

Our annual reviewer and top cited paper awards acknowledge and show our appreciation for the vital contributions that scientists make to the publishing process. We also work with Publons to ensure that researchers can claim credit for their work.

Each year, our journal editorial teams select the best reviewers of the year based on the quality, quantity, and timeliness of their reviews. From more than 100,000 reviews for IOP Publishing in 2019, we recognised 1,600 reviewers from more than 60 countries, across 53 journals.

Recognising the significance of the work published in IOP Publishing and partner journals between 2017 and 2019, the top one per cent of the most-cited papers in China and India received our top cited paper avard.

213 research papers received the award, along with the top nine most-cited reviewpapers. In total, the top cited papers received 4,708 citations and the nine most highly-cited reviewpapers received 376 citations.

40 research papers received the award, along with the top most-cited reviewpaper. In total, the top cited papers received 661 citations and the most highly-cited reviewpaper received 45 citations.

We work with Publons to ensure researchers can claim credit for their work.

50,551 8.5/10

#### **Globally connected**

We operate on a global scale, with extensive experience, deep industry knowledge, and a local cultural understanding that enables us to work dosely with researchers worldwide to publish their ground-breaking work.



