

Editorial: A Vision for *Physical Review Applied*

Physical Review Applied was launched a decade ago “to provide a home within the Physical Review family for high-quality papers with a strong focus on applications, and a venue for scientists working at the intersection of physics and engineering, with the goal of bridging the artificial divide between these fields” [1]. For us scientists working at this intersection, the launch of this journal was an exciting development, which was also reflected in an Editorial Board that included scientific giants such as Mildred Dresselhaus.

A lot has happened in the past decade, including the introduction of new journals that in part serve the same community of researchers as *Physical Review Applied*—both outside the Physical Review family and within it, where we have strong collaborative relationships, in particular with *PRX Quantum*, *PRX Energy*, and *Physical Review Materials*. The artificial divide between physics and engineering may have diminished in some areas, such as quantum information science and technology. Also, more intersections are being created between disciplines, notably between physics and computer science, due to the rapid development of artificial intelligence techniques and their use in scientific research. In light of these developments, it is important to revisit the visions for our journal and others.

Building upon its origins, *Physical Review Applied* will continue to serve as a venue for scientists working at the intersection of physics and engineering, an outlet for new research directions in this space, and an incubator of new ideas that may one day grow into research fields with their own dedicated journals. In trying to capture the whole space of “applied physics + x ” while preserving our high quality standards for peer review and publication, we will strive to accommodate differences in publishing habits of various research communities (preferred article formats, emphasis on rapid publication, Open Access, etc.).

As a journal backed by a professional society, we also have a responsibility to educate our community about interesting research areas and opportunities at the interface between physics and engineering, and to help our readers to separate hype from real opportunities. In this effort, we will be publishing invited articles from leading researchers on the challenges, opportunities, and futures of their fields. Following the theme of flexibility, we will offer invited researchers various formats to present their visions, including Perspectives, Reviews, and potentially other article types.

While such visionary articles are important for educating and connecting scientific communities, maintaining publication of high-quality original research is essential for our journal to survive and thrive. Therefore, we invite you to continue to submit your exciting results to *Physical Review Applied*! In addition, please be sure to let us know when you have ideas about how we could serve you and your research community better. We look forward to receiving your input via prapplied@aps.org, or better yet in person, when you meet one of us editors at a conference.

Finally, I thank Steve Forrest for successfully serving as the Lead Editor for many years and, prior to that, for being a member of the Editorial Board since the inception of our journal. I am honored to follow in his footsteps, and I look forward to working closely with our Chief Editor Matt Eager, the Editorial Board, our whole editorial team, the APS, and all of you in making this vision for *Physical Review Applied* a reality.

[1] Troy Shinbrot, Phys. Rev. Appl. **1**, 010001 (2014).

Jelena Vučković
Lead Editor
Physical Review Applied



Published 4 November 2024

DOI: [10.1103/PhysRevApplied.22.050001](https://doi.org/10.1103/PhysRevApplied.22.050001)

Published by the American Physical Society under the terms of the [Creative Commons Attribution 4.0 International](https://creativecommons.org/licenses/by/4.0/) license. Further distribution of this work must maintain attribution to the author(s) and the published article's title, journal citation, and DOI.