## **The Art of Scientific Publication** (*How to Make Your Next Paper Scientifically Effective?*)

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Sharing scientific knowledge through publications is an integral part of research career. Since more and more organizations evaluate scientific productivity by scholarly publication rates, the impact of published work becomes an important issue.<sup>1-3</sup> New researchers face the challenge of mastering the art of scientific publication to draw attention to their new scientific findings. Whether or not we want to describe science in such terms, scientific publishing is competitive in nature, and thus younger scientists must vie with their more experienced peers for recognition. While the electronic age has made the publication process easier and quicker, optimizing the structure of a scientific paper requires a certain degree of skill and proficiency. It is important to realize that a well-composed manuscript with a compelling scientific story that can appeal to the journal's readership sees a higher rate of success

The lecture will address following questions.

What are common practices in publishing scientific work? What are common misconceptions? What are the key steps that are necessary to compose an effective paper? How to respond to reviewers' comments?

## **Additional Reading:**

- How to Make Your Next Paper Scientifically Effective. Kamat, P.; Schatz, G. C., J. Phys. Chem. Lett. 2013, 4, 1578-1581. Link: http://dx.doi.org/10.1021/jz4006916 (OA Article)
- Kamat, P. V.; Buriak, J. M.; Schatz, G. C.; Weiss, P. S. Mastering the Art of Scientific Publication. J. Phys. Chem. Lett. 2014, 5, 3519-3521. http://dx.doi.org/ 10.1021/jz502010v (OA Article)
- "On Being a Scientist" –U.S. National Academy Press. http://www.nap.edu/catalog/12192.html (Free Download)