

Anish Roy

Ph.D. Student in Chemistry, admitted Autumn 2016

Publications

PUBLICATIONS

- **Multi-color super-resolution imaging to study human coronavirus RNA during cellular infection.** *bioRxiv : the preprint server for biology*
Wang, J., Han, M., Roy, A. R., Wang, H., Mockl, L., Zeng, L., Moerner, W. E., Qi, L. S.
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- **Multi-color super-resolution imaging to study human coronavirus RNA during cellular infection.** *Cell reports methods*
Wang, J., Han, M., Roy, A. R., Wang, H., Möckl, L., Zeng, L., Moerner, W. E., Qi, L. S.
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- **Exploring Cell Surface-Nanopillar Interactions with 3D Super-Resolution Microscopy.** *ACS nano*
Roy, A. R., Zhang, W., Jahed, Z., Tsai, C. T., Cui, B., Moerner, W. E.
2021
- **Deep learning in single-molecule microscopy: fundamentals, caveats, and recent developments [Invited].** *Biomedical optics express*
Mockl, L., Roy, A. R., Moerner, W. E.
2020; 11 (3): 1633–61
- **Quantitative super-resolution microscopy of the mammalian glycocalyx**
Mockl, L., Pedram, K., Roy, A., Krishnan, V., Gustavsson, A., Dorigo, O., Bertozzi, C., Moerner, W.
AMER CHEMICAL SOC.2019
- **Accurate and rapid background estimation in single-molecule localization microscopy using the deep neural network BGnet.** *Proceedings of the National Academy of Sciences of the United States of America*
Möckl, L. n., Roy, A. R., Petrov, P. N., Moerner, W. E.
2019
- **Quantitative Super-Resolution Microscopy of the Mammalian Glycocalyx.** *Developmental cell*
Möckl, L. n., Pedram, K. n., Roy, A. R., Krishnan, V. n., Gustavsson, A. K., Dorigo, O. n., Bertozzi, C. R., Moerner, W. E.
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