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Bio

EDUCATION AND CERTIFICATIONS

- MPhys, University of Sheffield , Chemical Physics (2017)
- PhD, Imperial College London (2020)

Publications

PUBLICATIONS

- **Coexistence of Incoherent and Ultrafast Coherent Exciton Transport in a Two-Dimensional Superatomic Semiconductor.** *The journal of physical chemistry letters*
Baxter, J. M., Koay, C. S., Xu, D., Cheng, S. W., Tulyagankhodjaev, J. A., Shih, P., Roy, X., Delor, M.
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- **Optical Imaging of Ultrafast Phonon-Polariton Propagation through an Excitonic Sensor.** *Nano letters*
Cheng, S. W., Xu, D., Su, H., Baxter, J. M., Holtzman, L. N., Watanabe, K., Taniguchi, T., Hone, J. C., Barmak, K., Delor, M.
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- **Optical control of ultrafast structural dynamics in a fluorescent protein.** *Nature chemistry*
Hutchison, C. D., Baxter, J. M., Fitzpatrick, A., Dorlhiac, G., Fadini, A., Perrett, S., Maghlaoui, K., Lefevre, S. B., Cordon-Preciado, V., Ferreira, J. L., Chukhutsina, V. U., Garratt, D., Barnard, et al
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- **Ultrafast imaging of polariton propagation and interactions** *NATURE COMMUNICATIONS*
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- **Observation of Cation Chromophore Photoisomerization of a Fluorescent Protein Using Millisecond Synchrotron Serial Crystallography and Infrared Vibrational and Visible Spectroscopy** *JOURNAL OF PHYSICAL CHEMISTRY B*
Baxter, J. M., Hutchison, C. M., Maghlaoui, K., Cordon-Preciado, V., Aller, P., Butryn, A., Axford, D., Horrell, S., Owen, R. L., Storm, S. S., Devenish, N. E., van Thor, J. J.
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- **Light activation of Orange Carotenoid Protein reveals bicycle-pedal single-bond isomerization** *NATURE COMMUNICATIONS*
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2022; 13 (1): 6420
- **The smfBox is an open-source platform for single-molecule FRET** *NATURE COMMUNICATIONS*
Ambrose, B., Baxter, J. M., Cully, J., Willmott, M., Steele, E. M., Bateman, B. C., Martin-Fernandez, M. L., Cadby, A., Shewring, J., Aaldering, M., Craggs, T. D.
2020; 11 (1): 5641
- **Democratizing Single-Molecule FRET: An Open-Source Microscope for Measuring Precise Distances and Biomolecular Dynamics**
Ambrose, B., Baxter, J., Cully, J., Willmott, M., Bateman, B. C., Steele, E., Cadby, A. J., Shewring, J., Aaldering, M., Craggs, T. D.

