

# Jack Davies Hare

*Curriculum Vitae, January 2025*

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## Education

- 2013–2017 **Imperial College London**, PhD, Plasma Physics
- 2011–2013 **Princeton University**, MA, Plasma Physics
- 2007–2011 **University of Cambridge**, 1st Class BA (hons) and MSci, Natural Sciences

## Employment

- 2025– **Cornell University**, Assistant Professor, School of Electrical and Computer Engineering
- 2021–2024 **Massachusetts Institute of Technology**, Assistant Professor, Walter Henry Gayle (1929) Career Development Chair, Department of Nuclear Science and Engineering
- 2020–2021 **Imperial College London**, Post-doctoral Research Associate
- 2019–2020 **Max-Planck Institute for Plasma Physics**, Post-doctoral Research Associate
- 2017–2019 **Imperial College London**, Post-doctoral Research Associate

## Selected Awards

- 2024 MIT School of Engineering Ruth and Joel Spira Award for Distinguished Teaching.
- 2023 Michigan Institute for Plasma Science and Engineering (MIPSE) Early Career Award.
- 2018 European Physical Society Plasma Physics Division PhD Research Award.
- 2018 Imperial College Prize for Excellence in the Support of Teaching and Learning.

## Selected Grants

- 2023 PI, NSF CAREER Award. \$850k.
- 2023 Co-PI, MACH NNSA Center of Excellence. \$750k.
- 2022–2024 Sub-award from ARPA-E OPEN grant led by Eden Inc. on electrohydraulic fracturing. \$500k.
- 2022–2024 PI, NSF EAGER: “Radiatively Cooled Magnetic Reconnection on Z”. \$218k.
- 2021–2024 PI, NSF/NNSA: “Developing Pulsed Power Driven Turbulent Reconnection Platforms”. \$750k.
- 2021–2025 Academic PI the Magnetically Ablated Reconnection on Z (MARZ) collaboration, awarded seven shots (~\$5M) through the Z Fundamental Science Program

## Selected Invited Talks

- Nov. 2024 Physics and Astronomy Colloquium, Dartmouth College, NH
- Apr. 2024 Joint IAS/Princeton Astrophysics Colloquium, Princeton, NJ
- Mar. 2024 ECLIPSE Conference, Rochester, NY
- Mar. 2024 Plasma Seminar, UC Los Angeles, CA
- June 2023 MagNetUS Annual Meeting, Auburn University, AL
- Mar. 2023 MIPSE Seminar, University of Michigan, Ann Arbor MI
- Oct. 2022 Plasma Physics Colloquium, Columbia University, NY

- Oct. 2022 Center for Integrated Plasma Studies Seminar, CU Boulder, CO
- Aug. 2022 Z Fundamental Science Workshop, Albuquerque, NM
- May. 2022 Magnetic Reconnection Workshop, Monterey CA
- July 2020 Frontiers in Plasma Physics, Journal of Plasma Physics Colloquium
- Jan. 2019 Plasma Theory Group Seminar, University of Oxford, UK
- Oct. 2017 APS Division of Plasma Physics Annual Meeting, Milwaukee, WI
- March 2017 Magnetic Reconnection US-Japan Workshop 2017, Matsuyama, Japan

## ■ Academic Service

- 2024 APS DPP Nominating Committee.
- 2023 IEEE ICOPS Conference Technical Area Lead.
- 2021 APS DPP Program Committee, Fundamental Science sub-committee.
- 2021–2024 MIT NSE departmental DEI committee.
- 2021–2023 APS Division of Plasma Physics Pride (LGBTQ+) committee, member-at-large.
- From 2020 Advisory Board member for the Journal of Plasma Physics.
- From 2017 Referee for *Physical Review Letters*, *Nature*, *Physical Review E*, *Journal of Plasma Physics*, *Review of Scientific Instruments*, and *Physics of Plasmas*, among others.
- 2018–2019 Chair of Imperial College Physics Department LGBT+ Allies Network.

## ■ Selected Teaching Experience

- From 2021 Advisor to five graduate students and eight undergraduate students at MIT.
- 2021–2024 Instructor, 22.62, Fusion Energy for graduate students at MIT (Spring).
- 2021–2023 Instructor, 22.67 Principles of Plasma Diagnostics for graduate students (Fall 2021, 2023).
- 2022–2024 Instructor, 22.911 graduate seminar series.
- Spring 2023 Instructor, 22.901, High Energy Density Physics for graduate students at MIT.
- Fall 2022 Co-instructor, 22.033, Senior Design project for MIT Nuclear Engineering undergraduates.
- 2017–2018 Head of Experiment (Interferometry), first year undergraduate labs at Imperial College.
- 2017–2018 BSc Project supervisor, continuous wave triature interferometer for HED plasmas.
- 2014–2016 Demonstrator for 2nd year physics undergraduate labs at Imperial College.
- 2014–2016 Supervisor for first year projects for physics undergraduates at Imperial College.

## Publications

Thirty-nine publications, of which five are first author and seven are last author.

- 2024 R. Datta, K. Chandler, C. E. Myers, J. P. Chittenden, A. J. Crilly, C. Aragon, D. J. Ampleford, J. T. Banasek, A. Edens, W. R. Fox, S. B. Hansen, E. C. Harding, C. A. Jennings, H. Ji, C. C. Kuranz, S. V. Lebedev, Q. Looker, S. G. Patel, A. Porwitzky, G. A. Shipley, D. A. Uzdensky, D. A. Yager-Elorriaga, and **J. D. Hare**. “Plasmoid Formation and Strong Radiative Cooling in a Driven Magnetic Reconnection Experiment”. *Physical Review Letters* 132.15. Publisher: American Physical Society, p. 155102. DOI: 10.1103/PhysRevLett.132.155102.
- 2024 R. Datta, K. Chandler, C. E. Myers, J. P. Chittenden, A. J. Crilly, C. Aragon, D. J. Ampleford, J. T. Banasek, A. Edens, W. R. Fox, S. B. Hansen, E. C. Harding, C. A. Jennings, H. Ji, C. C. Kuranz, S. V. Lebedev, Q. Looker, S. G. Patel, A. Porwitzky, G. A. Shipley, D. A. Uzdensky, D. A. Yager-Elorriaga, and **J. D. Hare**. “Radiatively cooled magnetic reconnection experiments driven by pulsed power”. *Physics of Plasmas* 31.5, p. 052110. DOI: 10.1063/5.0201683.
- 2024 R. Datta, F. Ahmed, and **J. D. Hare**. “Machine-Learning-Assisted Analysis of Visible Spectroscopy in Pulsed-Power-Driven Plasmas”. *IEEE Transactions on Plasma Science*. Conference Name: IEEE Transactions on Plasma Science, pp. 1–9. DOI: 10.1109/TPS.2024.3364975.
- 2024 R. Datta, A. Crilly, J. P. Chittenden, S. Chowdhry, K. Chandler, N. Chaturvedi, C. E. Myers, W. R. Fox, S. B. Hansen, C. A. Jennings, H. Ji, C. C. Kuranz, S. V. Lebedev, D. A. Uzdensky, and **J. D. Hare**. “Simulations of radiatively cooled magnetic reconnection driven by pulsed power”. en. *Journal of Plasma Physics* 90.2, p. 905900215. DOI: 10.1017/S0022377824000448.
- 2024 J. A. Percy, M. J. Rosenberg, T. M. Johnson, G. D. Sutcliffe, B. L. Reichelt, **J. D. Hare**, N. F. Loureiro, R. D. Petrasso, and C. K. Li. “Experimental Evidence of Plasmoids in High-beta Magnetic Reconnection”. *Physical Review Letters* 132.3. Publisher: American Physical Society, p. 035101. DOI: 10.1103/PhysRevLett.132.035101.
- 2024 V. Valenzuela-Villaseca, L. G. Suttle, F. Suzuki-Vidal, J. W. D. Halliday, D. R. Russell, S. Merlini, E. R. Tubman, J. D. Hare, J. P. Chittenden, M. E. Koepke, E. G. Blackman, and S. V. Lebedev. “On the Structure of Plasma Jets in the Rotating Plasma Experiment”. *IEEE Transactions on Plasma Science* 52.10. Conference Name: IEEE Transactions on Plasma Science, pp. 4858–4865. DOI: 10.1109/TPS.2024.3387304.
- 2024 V. Valenzuela-Villaseca, L. G. Suttle, F. Suzuki-Vidal, J. W. D. Halliday, D. R. Russell, S. Merlini, E. R. Tubman, **J. D. Hare**, J. P. Chittenden, M. E. Koepke, E. G. Blackman, and S. V. Lebedev. “Structure and dynamics of magneto-inertial, differentially rotating laboratory plasmas”. en. *Journal of Plasma Physics* 90.4, p. 915900401. DOI: 10.1017/S0022377824000710.
- 2023 S. Merlini, **J. D. Hare**, G. C. Burdiak, J. W. D. Halliday, A. Ciardi, J. P. Chittenden, T. Clayson, A. J. Crilly, S. J. Eardley, K. E. Marrow, D. R. Russell, R. A. Smith, N. Stuart, L. G. Suttle, E. R. Tubman, V. Valenzuela-Villaseca, T. W. O. Varnish, and S. V. Lebedev. “Radiative cooling effects on reverse shocks formed by magnetized supersonic plasma flows”. *Physics of Plasmas* 30.9, p. 092102. DOI: 10.1063/5.0160809.
- 2023 R. Datta, J. Angel, J. B. Greenly, S. N. Bland, J. P. Chittenden, E. S. Lavine, W. M. Potter, D. Robinson, T. W. O. Varnish, E. Wong, D. A. Hammer, B. R. Kusse, and **J. D. Hare**. “Plasma flows during the ablation stage of an over-massed pulsed-power-driven exploding planar wire array”. *Physics of Plasmas* 30.9, p. 092104. DOI: 10.1063/5.0160893.

- 2023 D. R. Russell, G. C. Burdiak, J. J. Carroll-Nellenback, J. W. D. Halliday, **J. D. Hare**, S. Merlini, L. G. Suttle, V. Valenzuela-Villaseca, S. J. Eardley, J. A. Fullalove, G. C. Rowland, R. A. Smith, A. Frank, P. Hartigan, A. L. Velikovich, J. P. Chittenden, and S. V. Lebedev. "Observation of subcritical shocks in a collisional laboratory plasma: scale dependence near the resistive length". en. *Journal of Plasma Physics* 89.4, p. 915890401. DOI: 10.1017/S0022377823000740.
- 2023 V. Valenzuela-Villaseca, L. G. Suttle, F. Suzuki-Vidal, J. W. D. Halliday, D. R. Russell, S. Merlini, E. R. Tubman, **J. D. Hare**, J. P. Chittenden, M. E. Koepke, E. G. Blackman, and S. V. Lebedev. "On The Structure of Plasma Jets in the Rotating Plasma Experiment". *arXiv:2312.02346*. arXiv:2312.02346 [physics]. DOI: 10.48550/arXiv.2312.02346.
- 2023 S. Jahanbakhsh, J. D. Hare, H. Meister, C. Ingesson, M. Majewski, F. Penzel, S. Schmitt, U. Walach, and M. Dubois. "Calibration and thermal test results of prototype bolometer sensors for ITER fusion reactor". *Review of Scientific Instruments* 94.3. Publisher: American Institute of Physics, p. 033503. DOI: 10.1063/5.0134449.
- 2022 R. Datta, D. R. Russell, I. Tang, T. Clayson, L. G. Suttle, J. P. Chittenden, S. V. Lebedev, and **J. D. Hare**. "The structure of 3-D collisional magnetized bow shocks in pulsed-power-driven plasma flows". en. *Journal of Plasma Physics* 88.6. Publisher: Cambridge University Press, p. 905880604. DOI: 10.1017/S0022377822001118.
- 2022 R. Datta, D. R. Russell, I. Tang, T. Clayson, L. G. Suttle, J. P. Chittenden, S. V. Lebedev, and **J. D. Hare**. "Time-resolved velocity and ion sound speed measurements from simultaneous bow shock imaging and inductive probe measurements". *Review of Scientific Instruments* 93.10. Publisher: American Institute of Physics, p. 103530. DOI: 10.1063/5.0098823.
- 2022 D. R. Russell, G. C. Burdiak, J. J. Carroll-Nellenback, J. W. D. Halliday, **J. D. Hare**, S. Merlini, L. G. Suttle, V. Valenzuela-Villaseca, S. J. Eardley, J. A. Fullalove, G. C. Rowland, R. A. Smith, A. Frank, P. Hartigan, A. L. Velikovich, J. P. Chittenden, and S. V. Lebedev. "Perpendicular Subcritical Shock Structure in a Collisional Plasma Experiment". *Physical Review Letters* 129.22. Publisher: American Physical Society, p. 225001. DOI: 10.1103/PhysRevLett.129.225001.
- 2021 **J. D. Hare**, G. C. Burdiak, S. Merlini, J. P. Chittenden, T. Clayson, A. J. Crilly, J. W. D. Halliday, D. R. Russell, R. A. Smith, N. Stuart, L. G. Suttle, and S. V. Lebedev. "An imaging refractometer for density fluctuation measurements in high energy density plasmas". *Review of Scientific Instruments* 92.3. Publisher: American Institute of Physics, p. 033521. DOI: 10.1063/5.0040919.
- 2021 L. G. Suttle, **J. D. Hare**, J. W. D. Halliday, S. Merlini, D. R. Russell, E. R. Tubman, V. Valenzuela-Villaseca, W. Rozmus, C. Bruulsema, and S. V. Lebedev. "Collective optical Thomson scattering in pulsed-power driven high energy density physics experiments (invited)". *Review of Scientific Instruments* 92.3. Publisher: American Institute of Physics, p. 033542. DOI: 10.1063/5.0041118.
- 2021 J. W. D. Halliday, S. N. Bland, **J. D. Hare**, S. Parker, L. G. Suttle, D. R. Russell, and S. V. Lebedev. "A time-resolved imaging system for the diagnosis of x-ray self-emission in high energy density physics experiments". *Review of Scientific Instruments* 92.12. Publisher: American Institute of Physics, p. 123507. DOI: 10.1063/5.0073174.
- 2021 E. D. Filippov, S. S. Makarov, K. F. Burdonov, W. Yao, G. Revet, J. Béard, S. Bolaños, S. N. Chen, A. Guediche, **J. Hare**, D. Romanovsky, I. Y. Skobelev, M. Starodubtsev, A. Ciardi, S. A. Pikuz, and J. Fuchs. "Enhanced X-ray emission arising from laser-plasma confinement by a strong transverse magnetic field". en. *Scientific Reports* 11.1. Number: 1 Publisher: Nature Publishing Group, p. 8180. DOI: 10.1038/s41598-021-87651-8.

- 2019 **J. D. Hare**, J. MacDonald, S. N. Bland, J. Dranczewski, J. W. D. Halliday, S. V. Lebedev, L. G. Suttle, E. R. Tubman, and W. Rozmus. “Two-colour interferometry and Thomson scattering measurements of a plasma gun”. en. *Plasma Physics and Controlled Fusion* 61.8, p. 085012. DOI: 10.1088/1361-6587/ab2571.
- 2019 L. G. Suttle, G. C. Burdiak, C. L. Cheung, T. Clayson, J. Halliday, **J. D. Hare**, S. Rusli, D. Russell, E. Tubman, A. Ciardi, N. F. Loureiro, J. Li, A. Frank, and S. V. Lebedev. “Interactions of magnetized plasma flows in pulsed-power driven experiments”. en. *Plasma Physics and Controlled Fusion*. tex.ids: Suttle2020a. DOI: 10.1088/1361-6587/ab5296.
- 2018 **J. D. Hare**, L. G. Suttle, S. V. Lebedev, N. F. Loureiro, A. Ciardi, J. Chittenden, T. Clayson, S. J. Eardley, C. Garcia, J. W. D. Halliday, T. Robinson, R. A. Smith, N. Stuart, F. Suzuki-Vidal, and E. R. Tubman. “An Experimental Platform for Pulsed-Power Driven Magnetic Reconnection”. *Physics of Plasmas* 25, p. 055703. DOI: 10.1063/1.5016280.
- 2018 L. G. Suttle, **J. D. Hare**, S. V. Lebedev, A. Ciardi, N. F. Loureiro, G. C. Burdiak, J. P. Chittenden, T. Clayson, J. W. D. Halliday, N. Niasse, D. Russell, F. Suzuki-Vidal, E. Tubman, T. Lane, J. Ma, T. Robinson, R. A. Smith, and N. Stuart. “Ion heating and magnetic flux pile-up in a magnetic reconnection experiment with super-Alfvénic plasma inflows”. *Physics of Plasmas* 25, p. 042108. DOI: 10.1063/1.5023664.
- 2018 T. Clayson, S. V. Lebedev, F. Suzuki-Vidal, G. C. Burdiak, J. W. D. Halliday, **J. D. Hare**, J. Ma, L. G. Suttle, and E. R. Tubman. “Inverse Liner Z-Pinch: An Experimental Pulsed Power Platform for Studying Radiative Shocks”. en. *IEEE Transactions on Plasma Science* 46.11, pp. 3734–3740. DOI: 10.1109/TPS.2018.2868757.
- 2017 **J. D. Hare**, S. V. Lebedev, L. G. Suttle, N. F. Loureiro, A. Ciardi, G. C. Burdiak, J. P. Chittenden, T. Clayson, S. J. Eardley, C. Garcia, J. W. D. Halliday, N. Niasse, T. Robinson, R. A. Smith, N. Stuart, F. Suzuki-Vidal, G. F. Swadling, J. Ma, and J. Wu. “Formation and Structure of a Current Sheet in Pulsed-Power Driven Magnetic Reconnection Experiments”. *Physics of Plasmas* 24, p. 102703. DOI: 10.1063/1.4986012.
- 2017 **J. D. Hare**, L. Suttle, S. V. Lebedev, N. F. Loureiro, A. Ciardi, G. C. Burdiak, J. P. Chittenden, T. Clayson, C. Garcia, N. Niasse, T. Robinson, R. A. Smith, N. Stuart, G. F. Swadling, J. Ma, J. Wu, and Q. Yang. “Anomalous Heating and Plasmoid Formation in a Driven Magnetic Reconnection Experiment”. *Physical Review Letters* 118, p. 085001. DOI: 10.1103/PhysRevLett.118.085001.
- 2017 G. C. Burdiak, S. V. Lebedev, S. N. Bland, T. Clayson, **J. Hare**, L. Suttle, D. C. Garcia, J. P. Chittenden, A. Frank, and T. S. Lane. “The structure of bow shocks formed by the interaction of pulsed-power driven magnetised plasma flows with conducting obstacles”. *Physics of Plasmas* 24, p. 072713. DOI: 10.1063/1.4993187.
- 2016 L. G. Suttle, **J. D. Hare**, S. V. Lebedev, G. F. Swadling, G. C. Burdiak, A. Ciardi, J. P. Chittenden, N. F. Loureiro, N. Niasse, F. Suzuki-Vidal, J. Wu, Q. Yang, T. Clayson, A. Frank, T. S. Robinson, R. A. Smith, and N. Stuart. “Structure of a Magnetic Flux Annihilation Layer Formed by the Collision of Supersonic, Magnetized Plasma Flows”. en. *Physical Review Letters* 116.22, p. 225001. DOI: 10.1103/PhysRevLett.116.225001.

- 2016 G. F. Swadling, S. V. Lebedev, G. N. Hall, F. Suzuki-Vidal, G. C. Burdiak, L. Pickworth, P. De Grouchy, J. Skidmore, E. Khoory, L. Suttle, M. Bennett, **J. D. Hare**, T. Clayton, S. N. Bland, R. A. Smith, N. H. Stuart, S. Patankar, T. S. Robinson, A. J. Harvey-Thompson, W. Rozmus, J. Yuan, and L. Sheng. "Experimental investigations of ablation stream interaction dynamics in tungsten wire arrays: Interpenetration, magnetic field advection, and ion deflection". *Physics of Plasmas* 23. Citation Key Alias: Swadling2016a, p. 056309. DOI: 10.1063/1.4948279.
- 2016 G. Haerendel, L. Suttle, S. V. Lebedev, G. F. Swadling, **J. D. Hare**, G. C. Burdiak, S. N. Bland, J. P. Chittenden, N. Kalmoni, A. Frank, R. A. Smith, and F. Suzuki-Vidal. "Stop layer: a flow braking mechanism in space and support from a lab experiment". *Plasma Physics and Controlled Fusion* 58. Publisher: IOP Publishing, p. 064001. DOI: 10.1088/0741-3335/58/6/064001.
- 2015 G. C. Burdiak, S. V. Lebedev, F. Suzuki-Vidal, G. F. Swadling, S. N. Bland, N. Niasse, L. Suttle, M. Bennet, **J. Hare**, M. Weinwurm, R. Rodriguez, J. Gil, and G. Espinosa. "Cylindrical liner Z-pinch experiments for fusion research and high-energy-density physics". *Journal of Plasma Physics* 81. Citation Key Alias: Burdiak2015a, pp. 1–20. DOI: 10.1017/S0022377815000318.
- 2015 M. Bennett, S. Lebedev, G. Hall, L. Suttle, G. Burdiak, F. Suzuki-Vidal, **J. Hare**, G. Swadling, S. Patankar, M. Bocchi, J. Chittenden, R. Smith, A. Frank, E. Blackman, R. Drake, and A. Ciardi. "Formation of radiatively cooled, supersonically rotating, plasma flows in Z-pinch experiments: Towards the development of an experimental platform to study accretion disk physics in the laboratory". *High Energy Density Physics* 17. Publisher: Elsevier Ltd Citation Key Alias: Bennett2015a, pp. 63–67. DOI: 10.1016/j.hedp.2015.02.001.
- 2014 G. F. Swadling, S. V. Lebedev, G. N. Hall, S. Patankar, N. H. Stewart, R. A. Smith, A. J. Harvey-Thompson, G. C. Burdiak, P. de Grouchy, J. Skidmore, L. Suttle, F. Suzuki-Vidal, S. N. Bland, K. H. Kwek, L. Pickworth, M. Bennett, **J. D. Hare**, W. Rozmus, and J. Yuan. "Diagnosing collisions of magnetized, high energy density plasma flows using a combination of collective Thomson scattering, Faraday rotation, and interferometry". *Review of Scientific Instruments* 85. Citation Key Alias: Swadling2014b, 11E502. DOI: 10.1063/1.4890564.
- 2014 S. V. Lebedev, L. Suttle, G. F. Swadling, M. Bennett, S. N. Bland, G. C. Burdiak, A. Ciardi, A. Clemens, P. D. Grouchy, G. N. Hall, **J. D. Hare**, N. Kalmoni, N. Niasse, S. Patankar, L. Sheng, A. Smith, J. Yuan, A. Frank, E. G. Blackman, and R. P. Drake. "The formation of reverse shocks in magnetized high energy density supersonic plasma flows". *Physics of Plasmas* 21. Citation Key Alias: Lebedev2014a, p. 056305. DOI: 10.1063/1.4874334.
- 2014 M. J. Bennett, S. V. Lebedev, G. N. Hall, L. Suttle, G. Burdiak, F. Suzuki-Vidal, **J. Hare**, G. Swadling, S. Patankar, M. Bocchi, J. P. Chittenden, R. Smith, A. Frank, E. Blackman, R. P. Drake, and A. Ciardi. "Rotating plasma disks in dense Z-pinch experiments". *AIP Conference Proceedings* 1639. ISBN: 9780735412781, pp. 71–75. DOI: 10.1063/1.4904780.
- 2013 J. Schmitt, T. Abrams, L. Baylor, L. Berzak Hopkins, T. Biewer, D. Bohler, D. Boyle, E. Granstedt, T. Gray, **J. Hare**, C. Jacobson, M. Jaworski, R. Kaita, T. Kozub, B. LeBlanc, D. Lundberg, M. Lucia, R. Maingi, R. Majeski, E. Merino, A. Ryou, E. Shi, J. Squire, D. Stotler, C. Thomas, K. Tritz, and L. Zakharov. "Results and future plans of the Lithium Tokamak eXperiment (LTX)". en. *Journal of Nuclear Materials* 438, S1096–S1099. DOI: 10.1016/j.jnucmat.2013.01.241.

- 2013 R. Majeski, T. Abrams, D. Boyle, E. Granstedt, **J. Hare**, C. M. Jacobson, R. Kaita, T. Kozub, B. LeBlanc, D. P. Lundberg, M. Lucia, E. Merino, J. Schmitt, D. Stotler, T. M. Biewer, J. M. Canik, T. K. Gray, R. Maingi, A. G. McLean, S. Kubota, W. A. Peebles, P. Beiersdorfer, J. H. T. Clementson, and K. Tritz. "Particle control and plasma performance in the Lithium Tokamak eXperiment". *Physics of Plasmas* 20. Citation Key Alias: Majeski2013a, p. 056103. DOI: 10.1063/1.4802195.
- 2011 Y. Alaverdyan, N. Vamivakas, J. Barnes, C. Leboutteiller, **J. Hare**, and M. Atatüre. "Spectral tunability of a plasmonic antenna with a dielectric nanocrystal". *Optics Express* 19.19. Citation Key Alias: Alaverdyan2011a, pp. 18175–18181.