



Coherent Back-Lasing from Atmospheric Insects

Results

Project Information

Bug-Flash

Grant agreement ID: 850463

[Project website](#)

DOI

[10.3030/850463](https://doi.org/10.3030/850463)

EC signature date

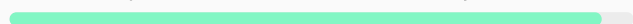
14 October 2019

Start date

1 February 2020

End date

30 September 2025



Funded under

EXCELLENT SCIENCE - European Research Council (ERC)

Total cost

€ 1 499 487,06

EU contribution

€ 1 499 487,06

Coordinated by

LUNDS UNIVERSITET



Sweden

CORDIS provides links to public deliverables and publications of HORIZON projects.

Links to deliverables and publications from FP7 projects, as well as links to some specific result types such as dataset and software, are dynamically retrieved from [OpenAIRE](#) .

Publications

Conference proceedings (1)

[Feasibility of Insect Identification Based on Spectral Fringes Produced by Clear Wings](#)

Author(s): M. Li, A. Runemark, N. Guilcher, J. Hernandez, J. Rota, and M. Brydegaard
Published in: JSTQE, Issue 29 / 4, 2023, ISSN 1077-260X
Publisher: IEEE
DOI: 10.1109/jstqe.2022.3218218

Peer reviewed articles (4)

Remote Nanoscopy with Infrared Elastic Hyperspectral Lidar

Author(s): L. Müller, M. Li, H. Månefjord, J. Salvador, N. Reistad, J. Hernandez, C. Kirkeby, A. Runemark, and M. Brydegaard
Published in: Advanced Science, 2023, ISSN 2198-3844
Publisher: Wiley

[Bark beetles as lidar targets and prospects of photonic surveillance](#) 

Author(s): Meng Li, Samuel Jansson, Anna Runemark, Jonathan Peterson, Carsten Thure Kirkeby, Anna Maria Jönsson, Mikkel Brydegaard
Published in: Journal of Biophotonics, Issue 14/4, 2021, ISSN 1864-063X
Publisher: Wiley - VCH Verlag GmbH & CO. KGaA
DOI: 10.1002/jbio.202000420

[A biophotonic platform for quantitative analysis in the spatial, spectral, polarimetric, and goniometric domains](#) 

Author(s): H. Månefjord, M. Li, C. Brackmann, N. Reistad, A. Runemark, J. Rota, B. Anderson, J. T. Zoueu, A. Merdasa, and M. Brydegaard
Published in: Review of Scientific Instrument, Issue 93, 2022, Page(s) 113709, ISSN 0034-6748
Publisher: American Institute of Physics
DOI: 10.1063/5.0095133

[Potential for identification of wild night-flying moths by remote infrared microscopy](#) 

Author(s): Meng Li, Clara Seinsche, Samuel Jansson, Julio Hernandez, Jadranka Rota, Eric Warrant, Mikkel Brydegaard
Published in: Journal of the Royal Society Interface, Issue 191/19, 2022, ISSN 1742-5689
Publisher: The Royal Society
DOI: 10.1098/rsif.2022.0256

Non-peer reviewed articles (2)

Dual-band Infrared Scheimpflug lidar reveal insect activity in an Ecuadorian cloud forest

Author(s): V. Santos, C. Costa-Vera, P. Rivera-Parra, S. Burneo, J. Molina, D. Encalada, J. Salvador, and M. Brydegaard

Published in: Applied Spectroscopy, 2023, ISSN 0003-7028

Publisher: Society for Applied Spectroscopy

[High dynamic range in entomological scheimpflug lidars](#) 

Author(s): Mikkel Brydegaard, Benoit Kouakou, Samuel Jansson, Jens Rydell, Jeremie Zoueu

Published in: Journal of Selected Topics of Quantum Electronics, Issue 27/4, 2021, Page(s) 1-11, ISSN 1077-260X

Publisher: Institute of Electrical and Electronics Engineers

DOI: 10.1109/jstqe.2021.3062088

Last update: 17 February 2025

Permalink: <https://cordis.europa.eu/project/id/850463/results>

European Union, 2025