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## Exploring disordered exciton landscapes in chlorosomes

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## List of publications

Publications including material presented in this thesis

1. **Manifestation of Hydrogen Bonding and Exciton Delocalization on the Absorption and Two-Dimensional Electronic Spectra of Chlorosomes**  
[Chapter 2]

V. Erić, X. Li, L. Dsouza, S. K. Frehan, A. Huijser, A. R. Holzwarth, F. Buda, A. G. J. Sevink, H. J. M de Groot, T. L. C. Jansen  
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**Author contributions:**

V. Erić: conceptualisation, methodology, data analysis and visualisation, writing-original draft, review and editing. X. Li: methodology, writing-review and editing. L. Dsouza: writing-review and editing. S. K. Frehan: writing-review and editing. A. Huijser: conceptualisation, writing-review and editing, supervision. A. R. Holzwarth: conceptualisation, writing-review and editing. F. Buda: conceptualisation, writing - review and editing. A. G. J. Sevink: conceptualisation, writing - review and editing, supervision. H. J. M de Groot: conceptualisation, writing -review and editing, supervision. T. L. C. Jansen: conceptualisation, methodology, validation, supervision, writing-original draft, review and editing.

## 2. Ultrafast Anisotropy Decay Reveals Structure and Energy Transfer in Supramolecular Aggregates

### [Chapter 3]

V. Erić, J. L. Castro, X. Li, L. Dsouza, S. K. Frehan, A. Huijser, A. R. Holzwarth, F. Buda, A. G. J. Sevink, H. J. M de Groot, T. L. C. Jansen

*J. Phys. Chem. B*, 127, 34, 7487–7496, (2023) [doi: 10.1021/acs.jpcc.3c04719]

V. Erić: conceptualisation, methodology, data analysis and visualisation, writing-original draft, review and editing. J. L. Castro: conceptualisation, methodology, data analysis, writing-review and editing, X. Li: writing-review and editing. L. Dsouza: writing-review and editing. S. K. Frehan: writing-review and editing. A. Huijser: conceptualisation, writing-review and editing, supervision. A. R. Holzwarth: conceptualisation, writing-review and editing. F. Buda: conceptualisation, writing - review and editing. A. G. J. Sevink: conceptualisation, writing - review and editing, supervision. H. J. M de Groot: conceptualisation, writing -review and editing, supervision. T. L. C. Jansen: conceptualisation, methodology, validation, supervision, writing-original draft, review and editing.

## 3. Observation of Dark States in Two-Dimensional Electronic Spectra of Chlorosomes

### [Chapter 4]

V. Erić, X. Li, L. Dsouza, A. Huijser, A. R. Holzwarth, F. Buda, A. G. J. Sevink, H. J. M de Groot, T. L. C. Jansen

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V. Erić: conceptualisation, methodology, data analysis and visualisation, writing-original draft, review and editing. X. Li: writing-review and editing. L. Dsouza: writing-review and editing. S. K. Frehan: writing-review and editing. A. Huijser: conceptualisation, writing-review and editing, supervision. A. R. Holzwarth: conceptualisation, writing-review and editing. F. Buda: conceptualisation, writing - review and editing. A. G. J. Sevink: conceptualisation, writing - review and editing, supervision. H. J. M de Groot: conceptualisation, writing -review and editing, supervision. T. L. C. Jansen: conceptualisation, methodology, validation, supervision, writing-original draft, review and editing.

## Publications that are not part of this thesis

4. **Photon Energy-Dependent Ultrafast Exciton Transfer in Chlorosomes of *Chlorobium tepidum* and the Role of Supramolecular Dynamics**  
S. K. Frehan, L. Dsouza, X. Li, V. Erić, T. L. C. Jansen, G. Mul, A. R. Holzwarth, F. Buda, A. G. J. Sevink, H. J. M de Groot, A. Huijser  
*J. Phys. Chem. B*, 127, 35, 7581–7589, (2023) [doi: 10.1021/acs.jpcc.3c05282]
5. **An integrated approach towards extracting structural characteristics of chlorosomes from a *bchQ* mutant of *Chlorobaculum tepidum***  
L. Dsouze, X. Li, V. Erić, A. Huijser, T. L. C. Jansen, A. R. Holzwarth, F. Buda, D. A. Bryant, S. Bahri, K. B. S. S. Gupta, G. J. A. Sevink, H. J. M. de Groot  
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