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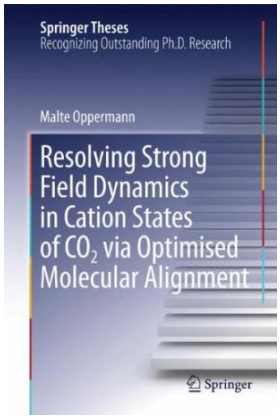

Springer. Hardcover. Book Condition: New. Hardcover. 205 pages. Dimensions: 9.3in. x 6.3in. x 0.7in.This thesis presents an experimental study of the ultrafast molecular dynamics of CO2 that are induced by a strong, near-infrared, femtosecond laser pulse. In particular, typical strong field phenomena such as tunneling ionisation, nonsequential double ionisation and photo-induced dissociation are investigated and controlled by employing an experimental technique called impulsive molecular alignment. Here, a first laser pulse fixes the molecule in space, such that the molecular dynamics...

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