Femtosecond-laser induced dynamics of CO on Ru(0001): New insights from a hot-electron, electronic friction model including surface motion

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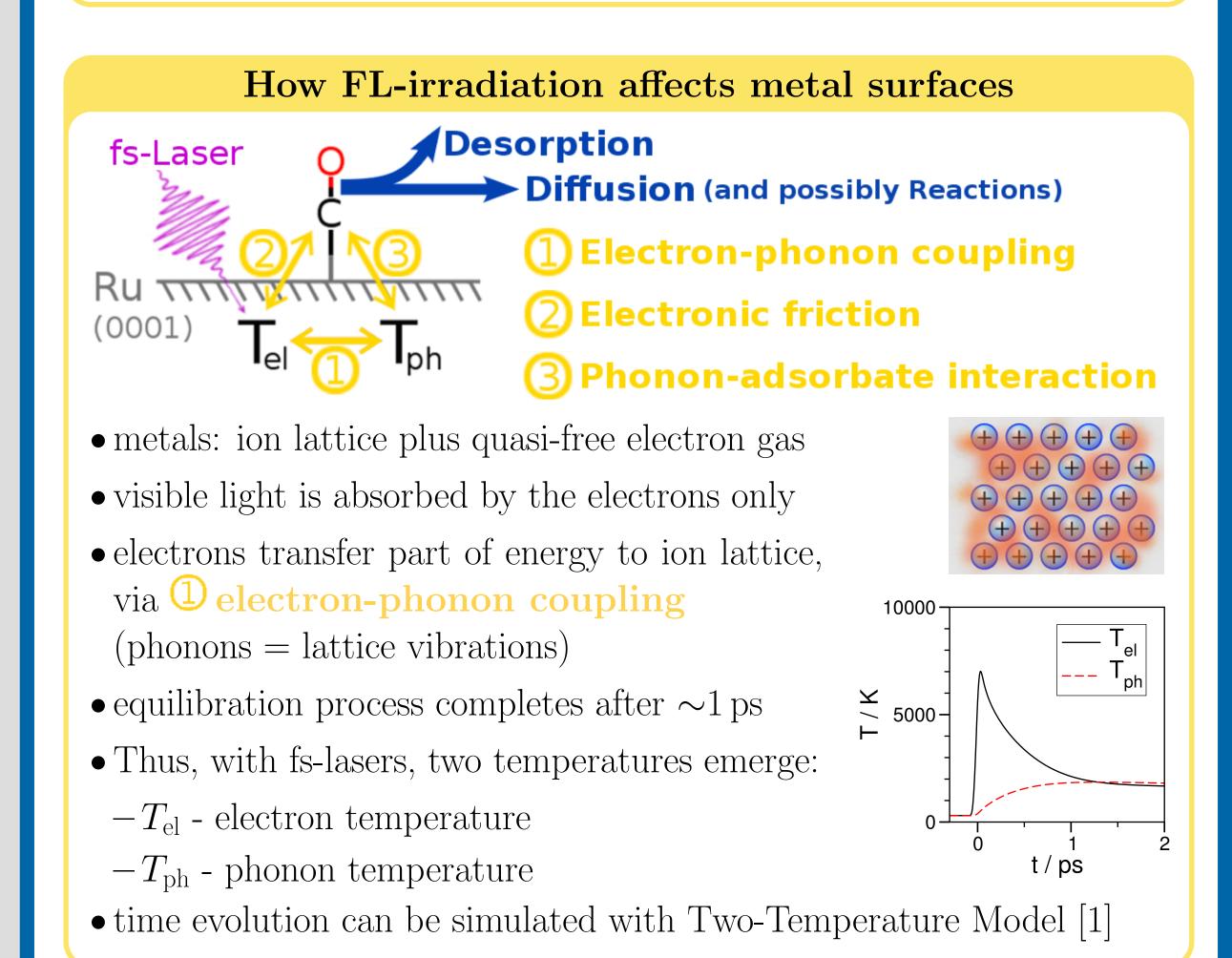
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Introduction

Motivation

- research on small molecules adsorbed to metals is important for:
- -catalytic applications
- -fundamental understanding of bonding
- femtosecond(fs)-lasers are a valuable tool for such research as they
- -allow for investigations on small timescales
- open up new processes compared to heating (femtophotochemistry)
- -may enable specific control over catalytic reactions (photocatalysis)



Models and Methods

References

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