

Stanford



Stefan Fischer

Postdoctoral Research Fellow, Materials Science and Engineering

Bio

PROFESSIONAL EDUCATION

- Doctor Rerum Naturium, Albert Ludwigs Universität Freiburg (2014)
- Diplom, Albert Ludwigs Universität Freiburg (2009)
- Vordiplom, Ruprecht Karl Universität Heidelberg (2006)

STANFORD ADVISORS

- Jennifer Dionne, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

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- **Comparative analysis of upconversion efficiencies in fluoride materials for photovoltaic application** *SOLAR ENERGY MATERIALS AND SOLAR CELLS*
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- **Upconversion in a Bragg structure: photonic effects of a modified local density of states and irradiance on luminescence and upconversion quantum yield** *OPTICS EXPRESS*
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- **Enhanced upconversion quantum yield near spherical gold nanoparticles - a comprehensive simulation based analysis** *OPTICS EXPRESS*
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- **Upconverting core-shell nanocrystals with high quantum yield under low irradiance: On the role of isotropic and thick shells** *JOURNAL OF APPLIED PHYSICS*
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- **Enhanced energy conversion of up-conversion solar cells by the integration of compound parabolic concentrating optics** *SOLAR ENERGY MATERIALS AND SOLAR CELLS*
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