

## Research Profile Schneider

### Prof. Dr. **Christian Schneider**

Professor for Experimental Physics, permanent

Born 15.08.1981 in Würzburg, Germany

Male, German; married, two children

Institute for Physics

Carl von Ossietzky University Oldenburg

D-26111 Oldenburg, Germany

Phone: +49 441 798 3116

Email: [Christian.schneider@uni-oldenburg.de](mailto:Christian.schneider@uni-oldenburg.de)

Website: <https://uol.de/quantenmaterialien>

Twitter: @SchneiderQMat



### Academic training

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2001-2007      Diploma in Nanostrukturtechnik, University of Würzburg, Germany  
Supervisor of diploma thesis: Prof. A. Forchel

### Academic degrees

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2020            Habilitation for Experimental Physics, University of Würzburg, Germany  
Mentor: Prof. S. Höfling

2012            Ph.D. in Physics, University of Würzburg, Germany  
Supervisor: Prof. A. Forchel

### Scientific career

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Since 2020     Permanent Professor (W2) at the Institute of Physics, University of Oldenburg, Germany

2012-2020     Senior research scientist at the Chair of Technische Physik, University of Würzburg Germany  
(group leader "III/V spectroscopy" and "2D Materials")

2012            Visiting scientist at Stanford University, group of Prof. Y. Yamamoto

### Others (selected)

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2016-2022     ERC starting grant "unlimit-2D"

## Research interest

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Optical Properties of Quantum Materials, Light-matter coupling in semiconductors, transition metal dichalcogenides, exciton-polaritons, Bose condensates, single photon emitters and quantum photonics.

5 selected peer-reviewed publications out of >220,  
with >12.000 citations, h-index: 55 (Google Scholar)

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**C. Schneider**, A. Rahimi-Iman, N.Y. Kim, J. Fischer, I.G. Savenko, M. Amthor, M. Lerner, A. Wolf, L. Worschech, V.D. Kulakovskii, I.A. Shelykh, M. Kamp, S. Reitzenstein, A. Forchel, Y. Yamamoto and S. Höfling, An electrically pumped polariton laser, **Nature** **497**, 348 (2013)

C. Anton-Solanas, M. Waldherr, M. Klaas, H. Suchomel, T. Harder, H. Cai, E. Sedov, S. Klembt, A.V. Kavokin, S. Tongay,, K. Watanabe, T. Taniguchi, S. Höfling, **C. Schneider**, Bosonic condensation of Exciton-Polaritons in an atomically thin crystal **Nature Materials** **1-7**, (2021)

N. Lundt, S. Klembt, E. Cherotchenko, O. Iff, A. Nalitov, M. Klaas, S. Betzold, C. Dietrich, A. Kavokin, S. Höfling and **C. Schneider**, Room temperature Tamm-Plasmon Exciton-Polaritons with a WSe<sub>2</sub> monolayer. **Nature Communications**; DOI 101038/ncomms13328 (2016)

N. Lundt, A. Marynski, E. Cherotchenko, A. Pant, X. Fan, S. Tongay, G. Sek, A.V. Kavokin, S. Höfling, and **C. Schneider** Monolayered MoSe<sub>2</sub>: A candidate for room-temperature polaritonics. **2D Materials**, 4.1. (2016)

Y.M. He, O. Iff, N. Lundt, V. Baumann, M. Davanco, K. Srinivasan, S. Höfling and **C. Schneider** Cascaded emission of single photons from the biexciton in monolayered WSe<sub>2</sub>; **Nature Communications**, DOI 10.1038/ncomms13409 (2016)