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Publikationen

Three-dimensional distribution of individual atoms in the channels of beryl

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Knez, D., Volk, A., Thaler, P., Fisslthaler, E., Grogger, W., Ernst, W. & Hofer, F., 2014, *European Workshop on Spatially-Resolved Electron Spectroscopy.* , S. 23-23

HR-STEM investigations of metallic nanoparticles grown with superfluid He-droplets

Knez, D., Thaler, P., Volk, A., Grogger, W., Ernst, W. & Hofer, F., 2014, *64. Jahrestagung der Österreichischen Physikalischen Gesellschaft / Echophysics-Pöllau.* , S. 11-11

Preparation and Electron Microscopy of Graphene

Knez, D., Fisslthaler, E. & Hofer, F., 25 Apr. 2013.

Preparation and Electron Microscopy of Graphene

Knez, D., 2013

Aktivitäten

Zink indium sulfides with hierarchical porosity for photocatalysis

Trimmel, G. (Redner/in), Sigl, M. (Beitragende/r), Egger, M. S. (Beitragende/r), Warchomicka, F. G. (Beitragende/r), Knez, D. (Beitragende/r), Dienstleder, M. (Beitragende/r), Amenitsch, H. (Beitragende/r) & Rath, T. (Redner/in)
4 März 2025

Specimen thickness determination in the TEM: Using 4DSTEM and Neural Networks to solve a persistent problem

Knez, D. (Redner/in)
25 Okt. 2024

A Synchrotron in a Microscope: Material characterization on the atomic level

Knez, D. (Redner/in)
16 Okt. 2024

Interface Stability of Organic Solar Cells- Interactions of fluorinated absorber materials with electron and hole transport layers

Hönigsberger, J. (Redner/in), Zuccala, E. (Beitragende/r), Rath, T. (Beitragende/r), Knez, D. (Beitragende/r), Haberfehlner, G. (Beitragende/r), Griesser, T. (Beitragende/r), Barozzi, M. (Beitragende/r), Canteri, R. (Beitragende/r) & Trimmel, G. (Beitragende/r)
23 Sept. 2024

Interface Stability of Organic Solar Cells- Interactions of fluorinated absorber materials with electron and hole transport layers

Hönigsberger, J. (Redner/in), Zuccala, E. (Beitragende/r), Rath, T. (Beitragende/r), Knez, D. (Beitragende/r), Haberfehlner, G. (Beitragende/r), Griesser, T. (Beitragende/r), Barozzi, M. (Beitragende/r), Canteri, R. (Beitragende/r) & Trimmel, G. (Beitragende/r)
26 Aug. 2024

Quantitative Analysis of Individual Atoms in the Channels of Beryl

Knez, D. (Redner/in)
4 Apr. 2024 → 5 Apr. 2024

Visualizing cellulose chains with cryo scanning transmission electron microscopy

Knez, D. (Redner/in)
4 Apr. 2024 → 5 Apr. 2024

Field induced oxygen vacancy migration in anatase thin films

Knez, D. (Redner/in)
3 Sept. 2023 → 7 Sept. 2023

Quantitative Analysis of Individual Atoms in the Channels of Beryl

Knez, D. (Redner/in)
3 Sept. 2023 → 7 Sept. 2023

Combining Energy Harvesting and Storage Into a Single Device

Zuccala, E. (Redner/in), Jodlbauer, A. (Beitragende/r), Haberfehlner, G. (Beitragende/r), Knez, D. (Beitragende/r), Rath, T. (Beitragende/r), Hanzu, I. (Beitragende/r) & Trimmel, G. (Beitragende/r)
13 Apr. 2023

Microscopy Conference 2023

Knez, D. (Teilnehmer/-in)
26 Feb. 2023 → 2 März 2023

Visualizing cellulose chains with cryo scanning transmission electron microscopy

Knez, D. (Redner/in)
23 Feb. 2023 → 2 März 2023

Phase Transitions on Alloying of Mixed-Metallic Nanoparticles

Ernst, W. (Redner/in), Lackner, F. (Beitragende/r), Knez, D. (Beitragende/r), Hofer, F. (Beitragende/r) & Hauser, A. (Beitragende/r)
26 Sept. 2022 → 30 Sept. 2022

Synthesis and investigation of sub-10 nm metal-semiconductor particles with core-shell and core-multi-shell structure

Lackner, F. (Redner/in), Messner, R. (Beitragende/r), Küstner, F. (Beitragende/r), Sullmann, L. (Beitragende/r), Knez, D. (Beitragende/r), Hofer, F. (Beitragende/r), Kothleitner, G. (Beitragende/r) & Ernst, W. (Beitragende/r)

26 Sept. 2022 → 30 Sept. 2022

Challenges in the characterization of magnetic materials with DPC

Knez, D. (Redner/in)

25 Sept. 2022 → 27 Sept. 2022

Mixed-metallic Nanoparticles: Phase Transitions and Diffusion in Au-VO Clusters

Ernst, W. (Redner/in), Lasserus, M. I. (Beitragende/r), Knez, D. (Beitragende/r), Hofer, F. (Beitragende/r) & Hauser, A. (Beitragende/r)

21 Sept. 2022 → 23 Sept. 2022

Challenges in the characterization of complex nanomaterials with analytical STEM

Knez, D. (Redner/in)

4 Sept. 2022 → 9 Sept. 2022

Mixed metal clusters - core-shell structures, phase transitions, and nano alloying

Ernst, W. (Redner/in), Hauser, A. (Beitragende/r), Lackner, F. (Beitragende/r), Knez, D. (Beitragende/r) & Hofer, F. (Beitragende/r)

6 Juni 2022 → 10 Juni 2022

Photoemission Electron Microscopy of Plasmonic Nanoparticles and Nanostructures

Lackner, F. (Redner/in), Jauk, T. (Beitragende/r), Schiffmann, A. (Beitragende/r), Komatsu, K. (Beitragende/r), Ditlbacher, H. (Beitragende/r), Krenn, J. R. (Beitragende/r), Papa, Z. (Beitragende/r), Dombi, P. (Beitragende/r), Fitzek, H. M. (Beitragende/r), Knez, D. (Beitragende/r), Hofer, F. (Beitragende/r), Denker, C. (Beitragende/r), Walowski, J. (Beitragende/r), Münzenberg, M. (Beitragende/r), Sterrer, M. (Beitragende/r), Schultze, M. (Beitragende/r) & Ernst, W. (Beitragende/r)

25 Okt. 2021

3D Nano-Printing of Plasmonically Active Gold-Nanoantennas

Kuhnness, D. (Redner/in), Knez, D. (Beitragende/r), Haberknecht, G. (Beitragende/r), Gruber, A. (Beitragende/r), Fitzek, H. M. (Redner/in), Winkler, R. (Beitragende/r), Kothleitner, G. (Redner/in) & Plank, H. (Beitragende/r)

27 Sept. 2021

Post-processing procedure for orbital mapping of rutile by STEM-EELS

Oberaigner, M. (Redner/in), Knez, D. (Redner/in), Löffler, S. (Redner/in) & Kothleitner, G. (Redner/in)

22 Aug. 2021 → 26 Aug. 2021

Structure of Periodic Oxygen Vacancy Arrays in Anatase Thin Films

Knez, D. (Redner/in)

20 Nov. 2020 → 26 Nov. 2020

Attosecond Spectroscopy of Ultrafast Carrier Dynamics in Nanoparticles

Lackner, F. (Redner/in), Gessner, J. A. (Beitragende/r), Siegrist, F. (Beitragende/r), Schiffmann, A. (Beitragende/r), Messner, R. (Beitragende/r), Lasserus, M. I. (Beitragende/r), Schnedlitz, M. (Beitragende/r), Toulson, B. W. (Beitragende/r), Knez, D. (Beitragende/r), Hofer, F. (Beitragende/r), Gessner, O. (Beitragende/r), Ernst, W. (Beitragende/r) & Schultze, M. (Beitragende/r)

16 Nov. 2020 → 19 Nov. 2020

Atoms in Motion: Electron Beam Induced Dynamics in Experiment and Simulation

Knez, D. (Redner/in)

12 Dez. 2019

Atoms in Motion: On the Impact of Swift Electrons on Mass Transport Phenomena at the Nanoscale

Knez, D. (Redner/in)

28 Juni 2019

Nanomaterials Synthesized in Helium Droplets

Ernst, W. (Beitragende/r), Hauser, A. (Redner/in), Lackner, F. (Beitragende/r), Knez, D. (Beitragende/r) & Hofer, F. (Beitragende/r)
30 Mai 2019 → 1 Juni 2019

Towards new plasmonic materials: Synthesis of K and K-Au nanoparticles with helium nanodroplets

Messner, R. (Redner/in), Knez, D. (Beitragende/r), Hofer, F. (Beitragende/r), Ernst, W. E. (Beitragende/r) & Lackner, F. (Beitragende/r)
19 Mai 2019 → 22 Mai 2019

On the Unexpected Alloying Behaviour of Ni-Au and Co-Au Core-Shell Nanoparticles

Hauser, A. (Redner/in), Schnedlitz, M. (Beitragende/r), Lasserus, M. I. (Beitragende/r), Meyer, R. (Beitragende/r), Ernst, W. E. (Beitragende/r), Knez, D. (Beitragende/r), Hofer, F. (Beitragende/r), Fernandez-Perea, R. (Beitragende/r) & De Lara-Castells, M. P. (Beitragende/r)
3 Dez. 2018 → 5 Dez. 2018

Electron beam induced dynamics of atoms and clusters

Hofer, F. (Redner/in), Knez, D. (Beitragende/r), Haberfehlner, G. (Beitragende/r), Kothleitner, G. (Beitragende/r), Ernst, W. E. (Beitragende/r) & Midgley, P. (Beitragende/r)
16 Okt. 2018

Core-Shell Nanoparticles for Plasmonics and Catalysis

Schiffmann, A. (Beitragende/r), Schnedlitz, M. (Beitragende/r), Lasserus, M. I. (Beitragende/r), Messner, R. (Beitragende/r), Lackner, F. (Beitragende/r), Hauser, A. (Beitragende/r), Knez, D. (Beitragende/r), Hofer, F. (Beitragende/r) & Ernst, W. E. (Redner/in)
15 Okt. 2018 → 17 Okt. 2018

Helium droplet synthesis as a new route to plasmonic nanoparticles and nanostructures

Lackner, F. (Redner/in), Schiffmann, A. (Beitragende/r), Messner, R. (Beitragende/r), Lasserus, M. I. (Beitragende/r), Schnedlitz, M. (Beitragende/r), Fitzek, H. M. (Beitragende/r), Pölt, P. (Beitragende/r), Knez, D. (Beitragende/r), Kothleitner, G. (Beitragende/r) & Ernst, W. E. (Beitragende/r)
12 Okt. 2018

Core-shell nanoparticles prepared in superfluid helium droplets: structure, phase transitions, and alloy formation

Schiffmann, A. (Beitragende/r), Schnedlitz, M. (Beitragende/r), Lasserus, M. I. (Beitragende/r), Messner, R. (Beitragende/r), Lackner, F. (Beitragende/r), Meyer, R. (Beitragende/r), Hauser, A. (Beitragende/r), Knez, D. (Beitragende/r), Hofer, F. (Beitragende/r) & Ernst, W. E. (Redner/in)
8 Okt. 2018 → 12 Okt. 2018

Helium Nanodroplet Based Synthesis of Tailored Nanoparticles for Surface Enhanced Raman Spectroscopy

Lackner, F. (Redner/in), Schiffmann, A. (Beitragende/r), Lasserus, M. I. (Beitragende/r), Messner, R. (Beitragende/r), Schnedlitz, M. (Beitragende/r), Fitzek, H. M. (Beitragende/r), Pölt, P. (Beitragende/r), Knez, D. (Beitragende/r), Hofer, F. (Beitragende/r) & Ernst, W. E. (Beitragende/r)
11 Sept. 2018

Plasmon spectroscopy of metallic nanoparticles on ultra-thin h-BN films

Schiffmann, A. (Redner/in), Knez, D. (Beitragende/r), Lackner, F. (Beitragende/r), Lasserus, M. I. (Beitragende/r), Messner, R. (Beitragende/r), Schnedlitz, M. (Beitragende/r), Hofer, F. (Beitragende/r) & Ernst, W. E. (Beitragende/r)
11 Sept. 2018

Thermally induced alloying process in core@shell AgAu particles: A new method to measure diffusion on the nanoscale

Lasserus, M. I. (Redner/in), Schnedlitz, M. (Beitragende/r), Hauser, A. (Beitragende/r), Knez, D. (Beitragende/r), Messner, R. (Beitragende/r), Schiffmann, A. (Beitragende/r), Lackner, F. (Beitragende/r), Hofer, F. (Beitragende/r) & Ernst, W. E. (Beitragende/r)
11 Sept. 2018

To be or not to be alloyed: The unexpected behaviour of Ni-Au and Co-Au core-shell nanoparticles upon heating

Schnedlitz, M. (Redner/in), Knez, D. (Beitragende/r), Meyer, R. (Beitragende/r), Lasserus, M. I. (Beitragende/r), Messner, R. (Beitragende/r), Schiffmann, A. (Beitragende/r), Lackner, F. (Beitragende/r), Hauser, A. (Beitragende/r), Hofer, F. (Beitragende/r) & Ernst, W. E. (Beitragende/r)
11 Sept. 2018

Atoms in Motion: Electron Beam Induced Dynamics in Experiment and Simulation

Knez, D. (Redner/in)
9 Sept. 2018 → 14 Sept. 2018

Functional plasmonic nanostructures obtained from helium droplet synthesis

Lackner, F. (Redner/in), Schiffmann, A. (Beitragende/r), Lasserus, M. I. (Beitragende/r), Messner, R. (Beitragende/r), Schnedlitz, M. (Beitragende/r), Fitzek, H. M. (Beitragende/r), Pölt, P. (Beitragende/r), Knez, D. (Beitragende/r), Hofer, F. (Beitragende/r) & Ernst, W. E. (Beitragende/r)
30 Aug. 2018

Ultra-thin h-BN films employed as STEM substrates for nanoscale plasmon spectroscopy

Schiffmann, A. (Redner/in), Knez, D. (Beitragende/r), Lackner, F. (Beitragende/r), Lasserus, M. I. (Beitragende/r), Messner, R. (Beitragende/r), Schnedlitz, M. (Beitragende/r), Hofer, F. (Beitragende/r) & Ernst, W. E. (Beitragende/r)
30 Aug. 2018

Atoms in Motion: Electron Radiation Dynamics

Knez, D. (Redner/in)
26 Apr. 2018 → 27 Apr. 2018

Plasmonic Properties of Ag@Au core@shell Nanoparticles and Nanostructures Formed by Helium Droplet Synthesis

Lackner, F. (Redner/in), Schiffmann, A. (Beitragende/r), Schnedlitz, M. (Beitragende/r), Lasserus, M. I. (Beitragende/r), Messner, R. (Beitragende/r), Ernst, W. E. (Beitragende/r), Fitzek, H. M. (Beitragende/r), Pölt, P. (Beitragende/r), Knez, D. (Beitragende/r) & Hofer, F. (Beitragende/r)
7 Feb. 2018

Atoms in motion: electron beam induced dynamics of metallic clusters in experiment & simulation

Knez, D. (Redner/in), Fisslthaler, E. (Beitragende/r), Hofer, F. (Beitragende/r), Schnedlitz, M. (Beitragende/r), Lasserus, M. I. (Beitragende/r), Schiffmann, A. (Beitragende/r) & Ernst, W. E. (Beitragende/r)
6 Feb. 2018

Temperature studies of Ni@Au and Co@Au core@shell systems on the nanoscale

Schiffmann, A. (Redner/in), Schnedlitz, M. (Beitragende/r), Meyer, R. (Beitragende/r), Lasserus, M. I. (Beitragende/r), Messner, R. (Beitragende/r), Lackner, F. (Beitragende/r), Hauser, A. (Beitragende/r), Ernst, W. E. (Beitragende/r), Knez, D. (Beitragende/r) & Hofer, F. (Beitragende/r)
6 Feb. 2018

On the stability of Ag-Au and Ni-Au core-shell particles at elevated temperatures: diffusion, oxidation and structural inversion at atomic resolution

Schnedlitz, M. (Redner/in), Lasserus, M. I. (Beitragende/r), Meyer, R. (Beitragende/r), Messner, R. (Beitragende/r), Schiffmann, A. (Beitragende/r), Lackner, F. (Beitragende/r), Ernst, W. E. (Beitragende/r), Hauser, A. (Beitragende/r), Knez, D. (Beitragende/r) & Hofer, F. (Beitragende/r)
5 Feb. 2018

Austrian Society for Electron Microscopy (Externe Organisation)

Albu, M. (Mitglied), Fisslthaler, E. (Mitglied), Fitzek, H. M. (Mitglied), Grogger, W. (Mitglied), Haberfehlner, G. (Mitglied), Hofer, F. (Mitglied), Knez, D. (Mitglied), Kothleitner, G. (Mitglied), Krisper, R. (Mitglied), Lammer, J. (Mitglied), Letofsky-Papst, I. (Mitglied), Mayrhofer, C. (Mitglied), Mitsche, S. (Mitglied), Nachtnebel, M. (Mitglied), Plank, H. (Mitglied), Rattenberger, J. (Mitglied), Rauch, S. (Mitglied), Sattelkow, J. (Mitglied), Schrötnner, H. (Mitglied), Trummer, C. (Mitglied), Wewerka, K. (Mitglied), Winkler, R. (Mitglied) & Zankel, A. (Mitglied)
2018 → ...

Richard Drummond-Brydson

Knez, D. (Gastgeber/in) & Hofer, F. (Gastgeber/in)
29 Nov. 2017 → 1 Dez. 2017

Direct Imaging of Channel Constituents in Beryl

Hofer, F. (Redner/in), Gspan, C. (Beitragende/r), Knez, D. (Redner/in), Fitzek, H. M. (Beitragende/r), Grogger, W. (Beitragende/r) & Gatterer, K. (Beitragende/r)
12 Nov. 2017 → 17 Nov. 2017

In situ studies of high-purity mono- and bimetallic nanostructures in experiment and simulation

Knez, D. (Redner/in)
21 Aug. 2017 → 25 Aug. 2017

Electron Beam Induced Dynamics of Atoms and Clusters-Experiments and Simulations

Hofer, F. (Redner/in) & Knez, D. (Beitragende/r)
30 Apr. 2017 → 4 Mai 2017

The 16th European Microscopy Congress

Knez, D. (Redner/in)
28 Aug. 2016 → 2 Sept. 2016

Materials Day 2015

Knez, D. (Redner/in)
28 Sept. 2015

12th Multinational Conference on Microscopy 2015

Knez, D. (Redner/in)
8 Sept. 2015

International Microscopy Congress 2014

Knez, D. (Redner/in)
7 Sept. 2014

Auszeichnungen**Best Poster Award Instrumentation Session**

Knez, D. (Empfänger/-in), 28 Sept. 2017

Best Young Lecturer Award

Knez, D. (Empfänger/-in), 28 Aug. 2015

Scholarship of the Società Italiana Scienze Microscopiche (SISM)

Knez, D. (Empfänger/-in), Sept. 2019