

Ferdinand Hofer  
Technische Universität Graz  
Institut für Elektronenmikroskopie und Nanoanalytik (5190)



## Publikationen

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

Knez, D., Gspan, C., Simic, N., Mitsche, S., Fitzek, H., Gatterer, K., Wiltsche, H., Kothleitner, G., Grogger, W. & Hofer, F., Dez. 2024, in: Communications Materials. 5, 1, 9 S., 19.

### Atom by atom analysis of defect structures in doped STO

Unterleutner, E. M., Knez, D., Kobald, A., Hofer, F. & Kothleitner, G., 2024, S. 89.

### Atom by Atom analysis of defect structures in doped STO

Unterleutner, E. M., Knez, D., Kobald, A., Hofer, F. & Kothleitner, G., 2024.

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

Knez, D., Mitsche, S., Kothleitner, G., Grogger, W., Hofer, F., Gspan, C. & Simic, N., 2024, S. 68.

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

Knez, D., Gspan, C., Simic, N., Mitsche, S., Fitzek, H. M., Gatterer, K., Wiltsche, H., Kothleitner, G., Grogger, W. & Hofer, F., 2024, in: Communications Materials. 2024, 5, S. 5:19 9 S.

### Applying Material Science Principles to Chemical Stability: Modelling Solid State Autoxidation in Mifepristone Containing Different Degrees of Crystal Disorder

Iyer, J., Morgan, L. M., Harrison, P., Davis, A., Ray, A., Mitsche, S., Hofer, F., Saraf, I. & Paudel, A., Sept. 2023, in: Journal of Pharmaceutical Sciences. 112, 9, S. 2463-2482 20 S.

### Micro- and nanostructure of additively manufactured,in-situ alloyed, magnetic spinodal $Fe_{54}Cr_{31}Co_{15}$

Mairhofer, T., Arneitz, S., Hofer, F., Sommitsch, C. & Kothleitner, G., 19 Apr. 2023, (Elektronische Veröffentlichung vor Drucklegung.) in: Journal of Materials Science. 58, 16, S. 7119–7135 17 S.

### Quantitative Analysis of Individual Atoms in the Channels of Beryl

Knez, D., Gspan, C., Simic, N., Mitsche, S., Fitzek, H. M., Kothleitner, G., Grogger, W. & Hofer, F., 2023, S. 553-554.

### Quantitative imaging of single cesium atoms in the channels of a Beryl crystal

Knez, D., Gspan, C., Simic, N., Mitsche, S., Fitzek, H. M., Kothleitner, G., Grogger, W. & Hofer, F., 2023, MC 2023 Microscopy Conference. S. 553-554

### Mixed-metal nanoparticles: phase transitions and diffusion in Au-VO clusters

Ernst, W. E., Lasserus, M., Knez, D., Hofer, F. & Hauser, A. W., 11 Juli 2022, in: Faraday Discussions. 242, S. 160-173 14 S.

### Atom by Atom analysis of complex oxide materials

Knez, D., Kobald, A., Hofer, F. & Kothleitner, G., 21 Apr. 2022.

### How an ASEM Workshop led to a successful quantification for atomic-scale EELS maps

Lammer, J., Löffler, S., Berger, C., Knez, D., Haberfehlner, G., Hofer, F., Bucher, E., Sitte, W. & Grogger, W., 21 Apr. 2022.

**Imaging the magnetic domain structure of spinodal alloys using differential phase contrast STEM (DPC-STEM)**  
Radlinger, T., Hofer, F. & Kothleitner, G., 21 Apr. 2022.

**Correlating whole sample EDS and Raman mappings – A case study of a Chelyabinsk meteorite fragment**  
Fitzek, H. M., Zankel, A., Dienstleider, M., Rattenberger, J., Schröttner, H. & Hofer, F., Feb. 2022, in: Micron. 153, 19 S., 103177.

**Ultrastructure of spherites in the midgut diverticula and Malpighian tubules of the harvestman Amilenus aurantiacus during the winter diapause**  
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**A method for a column-by-column EELS quantification of barium lanthanum ferrate**  
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**A study on the correlation between micro and magnetic domain structure of Cu<sub>52</sub>Ni<sub>34</sub>Fe<sub>14</sub> spinodal alloys**  
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**Exploring the magnetic microstructure of spinodal alloys with differential phase contrast scanning transmission electron microscopy (DPC-STEM)**  
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**Quantifying Ordering Phenomena at the Atomic Scale in Rare Earth Oxide Ceramics via EELS Elemental Mapping**  
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