

## Thin Films Division Fachverband Dünne Schichten (DS)

Stefan Krischok  
Technische Universität Ilmenau  
Weimarer Straße 32  
98693 Ilmenau  
stefan.krischok@tu-ilmenau.de

### Overview of Invited Talks and Sessions

(Lecture halls A 053 and A 060; Poster B and D )

#### Invited Talks

DS 3.1	Mon	15:00–15:30	A 053	<b>Advances in AlN-based ternary alloy crystals with regard to their elastic, thermodynamic and piezoelectric properties</b> — •OLIVER AMBACHER
DS 6.1	Tue	9:30–10:00	A 060	<b>Concerted electron-nuclear motion in polaron formation and exciton transfer</b> — •WOLF GERO SCHMIDT
DS 9.1	Wed	15:15–15:45	A 053	<b>Sustainable synthesis of MXenes and their precursors</b> — •JESUS GONZALEZ-JULIAN, NIMA AMOUSA, FILIPA OLIVEIRA
DS 13.1	Thu	9:30–10:00	A 053	<b>Computational insights into the surface functionalization and defects in MXenes</b> — •HANNU-PEKKA KOMSA
DS 13.5	Thu	11:00–11:30	A 053	<b>MXenes as materials for carbon capture, storage, and usage technologies: Computational insights &amp; predictions</b> — •FRANCESC VIÑES
DS 16.1	Thu	15:00–15:30	A 053	<b>Heterogeneous catalysis with MXenes: the role of the surface passivating groups and the structural defects</b> — •ALEXEY FEDOROV
DS 16.4	Thu	16:15–16:45	A 053	<b>Ultrafast Photoexcitations in 2D MXenes</b> — •LYUBOV TITOVA
DS 21.1	Fri	9:30–10:00	A 053	<b>Spotlight on Crystalline Textured Anilino-Squaraine Thin Films featuring Multiple Davydov Splitting and Charge Transfer Excitons</b> — •MANUELA SCHIEK

#### Invited Talks of the joint Symposium SKM Dissertation Prize 2024 (SYSD)

See SYSD for the full program of the symposium.

SYSD 1.1	Mon	9:30–10:00	H 1012	<b>Nonequilibrium dynamics in constrained quantum many-body systems</b> — •JOHANNES FELDMEIER
SYSD 1.2	Mon	10:00–10:30	H 1012	<b>Controlled Manipulation of Magnetic Skyrmions: Generation, Motion and Dynamics</b> — •LISA-MARIE KERN
SYSD 1.3	Mon	10:30–11:00	H 1012	<b>Interactions within and between cytoskeletal filaments</b> — •CHARLOTTA LORENZ
SYSD 1.4	Mon	11:00–11:30	H 1012	<b>Field theories in nonequilibrium statistical mechanics: from molecules to galaxies</b> — •MICHAEL TE VRUGT
SYSD 1.5	Mon	11:30–12:00	H 1012	<b>Lightwave control of electrons in graphene</b> — •TOBIAS WEITZ

#### Invited Talks of the joint Symposium Emerging Materials for Renewable Energy Conversion (SYEM)

See SYEM for the full program of the symposium.

SYEM 1.1	Wed	9:30–10:00	H 0105	<b>Non-critical Materials Production for a Green Energy Transition</b> — •ANKE WEIDENKAFF, WENJIE XIE, MARC WIEDENMEYER
SYEM 1.2	Wed	10:00–10:30	H 0105	<b>Strategies for the morphological design of photoactive oxynitride particles and electrodes for solar water-splitting.</b> — •SIMONE POKRANT

SYEM 1.3	Wed	10:30–11:00	H 0105	<b>Computational workflows for an accelerated design of novel materials and interfaces</b> — ●IVANO ELIGIO CASTELLI
SYEM 1.4	Wed	11:30–11:45	H 0105	<b>Autonomous composition control of emerging nitride materials for solar energy conversion</b> — ●ANDRIY ZAKUTAYEV
SYEM 1.5	Wed	11:45–12:00	H 0105	<b>Understanding and tailoring the catalytic activity of spinel and perovskite surfaces from first principles calculations</b> — ●ROSSITZA PENTCHEVA
SYEM 1.6	Wed	12:00–12:15	H 0105	<b>Mastering Compositional Complexity in High Entropy Materials for Energy Applications - Towards Accelerated Materials Discovery by Integration of High-throughput Experimentation, Simulation, and Materials Informatics</b> — ●ALFRED LUDWIG

## Sessions

DS 1.1–1.8	Mon	9:30–11:45	A 053	<b>Thin Oxides and Oxide Layers (joint session DS/KFM)</b>
DS 2.1–2.10	Mon	9:30–12:15	A 060	<b>2D Materials and their Heterostructures I: hBN, WSe<sub>2</sub>, MoS<sub>2</sub></b>
DS 3.1–3.9	Mon	15:00–18:00	A 053	<b>Layer Properties</b>
DS 4.1–4.5	Mon	16:00–17:15	A 060	<b>Layer Deposition</b>
DS 5.1–5.8	Tue	9:30–11:45	A 053	<b>2D Materials and their Heterostructures II: Graphene and Graphene Containing Heterostructures</b>
DS 6.1–6.10	Tue	9:30–12:45	A 060	<b>Thin Film Properties I</b>
DS 7.1–7.8	Wed	9:30–11:45	A 053	<b>2D Materials and their Heterostructures III</b>
DS 8.1–8.10	Wed	9:30–12:30	A 060	<b>Thin Film Properties II</b>
DS 9.1–9.6	Wed	15:00–17:00	A 053	<b>Focus Session: 2D Transition Metal Carbides, Nitrides and Carbonitrides I (joint session DS/MM/O)</b>
DS 10.1–10.12	Wed	15:00–18:15	A 060	<b>Thin Film Application</b>
DS 11.1–11.31	Wed	17:00–19:00	Poster B	<b>Poster I (joint session DS/MM/O)</b>
DS 12.1–12.1	Wed	17:30–18:00	A 053	<b>Hertha Spohner Prize Talk</b>
DS 13.1–13.8	Thu	9:30–12:15	A 053	<b>Focus Session: 2D Transition Metal Carbides, Nitrides and Carbonitrides II (joint session DS/MM/O)</b>
DS 14.1–14.3	Thu	9:30–10:15	A 060	<b>Transport Properties</b>
DS 15.1–15.6	Thu	10:30–12:00	A 060	<b>Thermoelectric and Phase Change Materials</b>
DS 16.1–16.7	Thu	15:00–17:30	A 053	<b>Focus Session: 2D Transition Metal Carbides, Nitrides and Carbonitrides III (joint session DS/MM/O)</b>
DS 17.1–17.6	Thu	15:00–16:30	A 060	<b>Organic Thin Films, Organic-Inorganic Interfaces</b>
DS 18.1–18.3	Thu	17:00–17:45	A 060	<b>Optical Analysis of Organic Thin Films</b>
DS 19	Thu	18:00–19:00	A 053	<b>Members' Assembly</b>
DS 20.1–20.36	Thu	18:00–20:30	Poster D	<b>Poster II</b>
DS 21.1–21.9	Fri	9:30–12:15	A 053	<b>Optical Analysis of Thin Films</b>

## Members' Assembly of the Thin Films Division

Thursday 18:00–19:00 A 053