Montag 10. Oktober 2022 / FMF

9:30	**Empfang**		
10:00	Aljoscha	Baumann	Investigation of volume changes in the colquiriite structure due to Li insertion from first principles
10:15	Gerardo	Roque	Mammography imaging optimization using Medipix detectors
10:30	Victoria	Davis	IR-Spectroelectrochemical Studies of Bio-hybrid Electrode Materials for the Catalytic Hydroxylation of VitD3
10:45	Rapp / Helmer		Diversity am FMF
11:00	**Kaffeepause**		
11:30	Michael	Becker	Ultraschallpunktschweißen von metallischem Glas AMZ4 mit der Aluminiumlegierung EN AW-5754
11:45	Michael	Schütz	Entwicklung NanoCT
12:00	Ronak N.	Shah	Investigation of ultrafast response of nanostructures
12:15	Lukas Felix	Ernst Hilfinger	Vom Treibhausgas zum Treibstoff: Nachhaltige Chemie mit CO_2
12:35	**Mittagspause**		
14:00	Wilfried	Weber	Engineered Living Wood Composites
14:15	Sagar	Bhagwat	On-chip liquid metal plug generator
14:30	Catherine	Schweinle	News from the detector front – Ag(I)/Bi(III)-based bromides as alternatives
14:45	Philipp	Kurz	P-XTRACT: regional phosphate recycling using sewage sludge combustion
15:00	**Kaffeepause**		
15:30	Balaji	Ragupathi	Ultrasonic re-consolidation of delaminated CFRP layers to enable materials circularity
15:45	Leonie	Pap	Organische Solarzellen mit hoher visueller Transmission
16:00	Bernd	von Issendorff	Time-resolved x-ray diffraction study of superheated silver nanoparticles
16:15	Erik	Licht	Vortrag über die Zusammenarbeit zwischen dem FMF und LyondellBasell
16:30	**Ende des Kolloquiums**		
19:00	**Abendessen** (für angemeldete TN)		

Dienstag 11. Oktober 2022 / FMF ab 14 Uhr FIT

09:00	Grace	Vera	Supporting matrices for extrusion based volumetric printing “MatrixPrint”
09:15	Julian	Martin	CORAL-HD Project: Catalyst development for the future of heavy duty fuel cell mobility
09:30	Stephan	Burger	"Towards reakstic full cells with protected Lithium-Metal anodes"
09:45	Frederike	Klimm	Force generation in coiling tendrils of the climbing passion flower Passiflora caerulea
10:00	Sebastian	Schächtele	Verunreinigungen von Recycling-Kunststoffen - eine unüberwindbare Hürde in regulierten Anwendungen?
10:15	Gopakumar	Sivasankarapillai	Sustainable Materials from wood matter
10:30	**Kaffeepause**		
11:00	Andreas	Goralczyk	Application of Micro/Nanoporous Fluoropolymers in Digital Microfluidics
11:15	Mehmet	Yapa	Lignin Based Materials for 3D Printing Applications
11:30	Silvio	Tisato	Liquid Crystal Display (LCD)-based computed axial lithography (CAL)
11:45	Rolf	Würdemann	Utilizing improved virtual orbitals on the calculation of X-ray absorption spectra for organic molecules
12:00	Daniel	Pfalzgraf	Investigating atomic transport in solids using a master equation approach
12:15	Bizan N.	Balzer	Understanding molecular friction
12:30	**Mittagspause**		
14:00	Paula	Straub	Mechanism of phototropic actuation in azo LCN with long thermal half-lives
14:15	Patrick	Elsässer	NiMo/MPNC Anode Catalysts for Alkaline Membrane Fuel Cells
14:30	Wafa	Maftuhin	Mechanochromic Torsional Springs: Insights from Theory and Simulations
14:45	Joey	Disch	Challenges of electrochemical CO_2 reduction in flow cells
15:00	**Kaffeepause**		
15:30	Kun	Dai	A systems chemistry approach towards living materials
15:45	Fiona	Pescher	Novel catalyst materials for polymer electrolyte fuel cells via fluidized bed atomic layer deposition
16:00	Dennis	Rusitov	Tunable thermal and photochemical crosslinking of CHic-able diazo-groups containing polymers
16:15	**Ende**		
19:00	**Abendessen** (für angemeldete TN)		

Mittwoch 12. Oktober 2022 / FIT

09:00	Peter	Kappel	Comparison of a Pneumatic Bending Actuator Fabricated by FDM and PolyJet 3D Printing
09:15	Céline	Calvino	This lecture will present different design approaches towards a new class of polymer material that can be renewed and implement a circular use. Title: From stimuli- responsive systems to renewable materials
09:30	Patrick	Huber	Single- and two-photon absorption based C-H-insertion crosslinking (CHic) of anthraquinone containing copolymers
09:45	Linnea	Hesse	Identifying new design and manufacturing concepts for technical fiber-reinforced composites in plants
10:00	William F. Chaverra	Ordoñez	Buruli ulcer: thermotherapy enhanced using PCM composites
10:15	**Kaffeepause**		
10:45	Jan	Büttner	Are halide-perovskites really suitable materials for battery and solar-battery applications – Fundamental reconsiderations on solubility, lithium intercalation and photo-corrosion
11:00	Niloofar	Nekoonam	Photoswitchable substrates with adjustable softness for droplet behavior analysis
11:15	Wei	Wei	Influence of interstitial Li on the electronic properties of LixCsPbl3 for photovoltaic and battery applications
11:30	Jens	Leonhardt	Thermo-responsive Liquid Crystalline Network Bilayer Actuators
11:45	**Ende des Kolloquiums - kleiner Snack**		