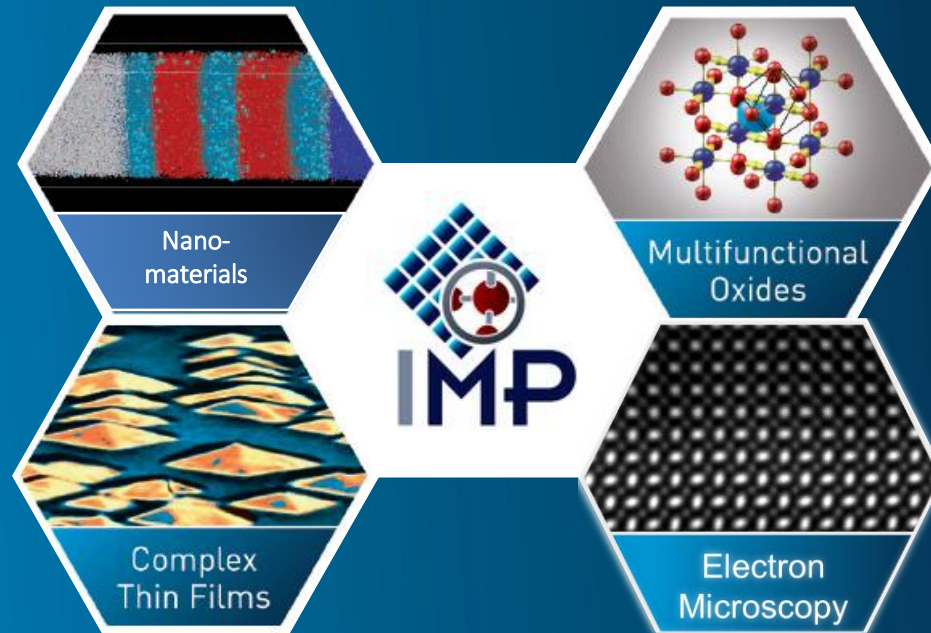
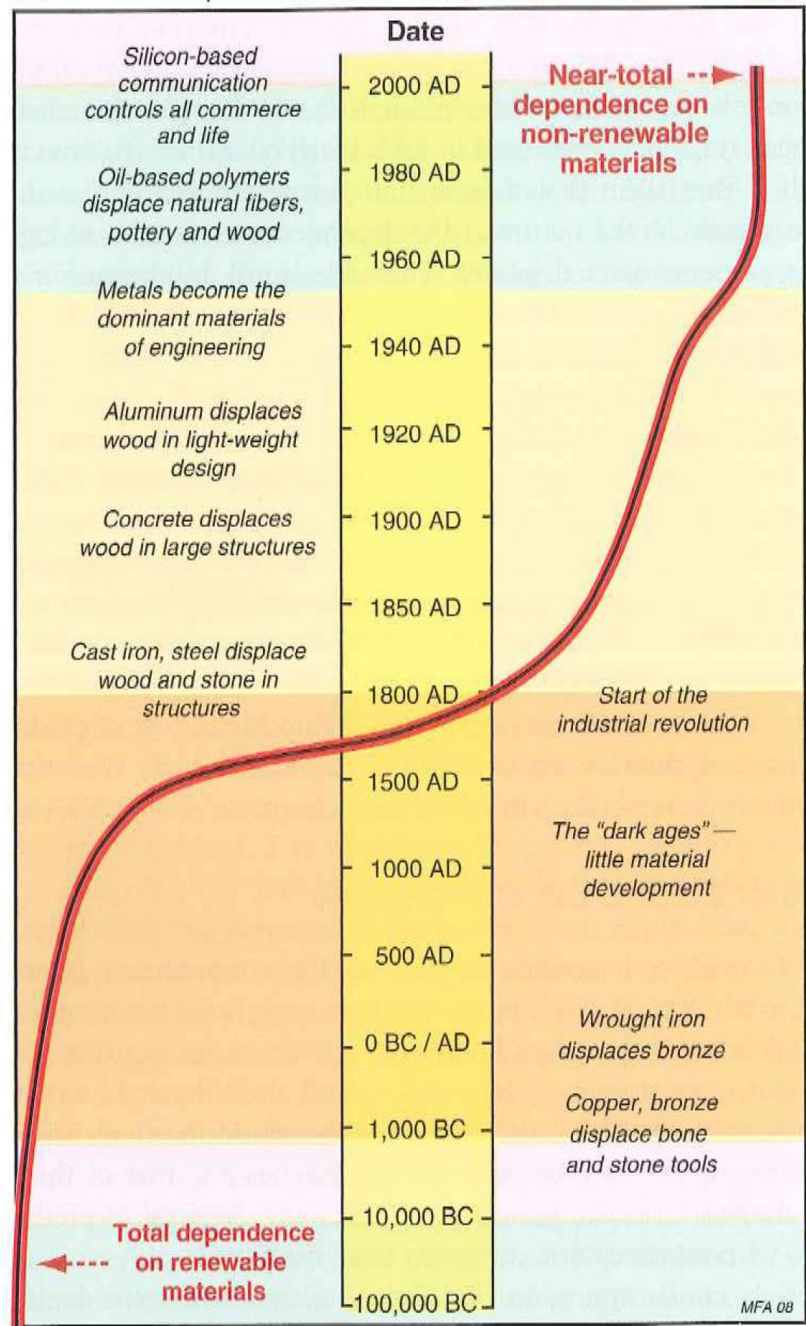


Materialphysik



Materials Ages

0% Dependence on non-renewable materials 100%



0% Dependence on non-renewable materials 100%



History of glass

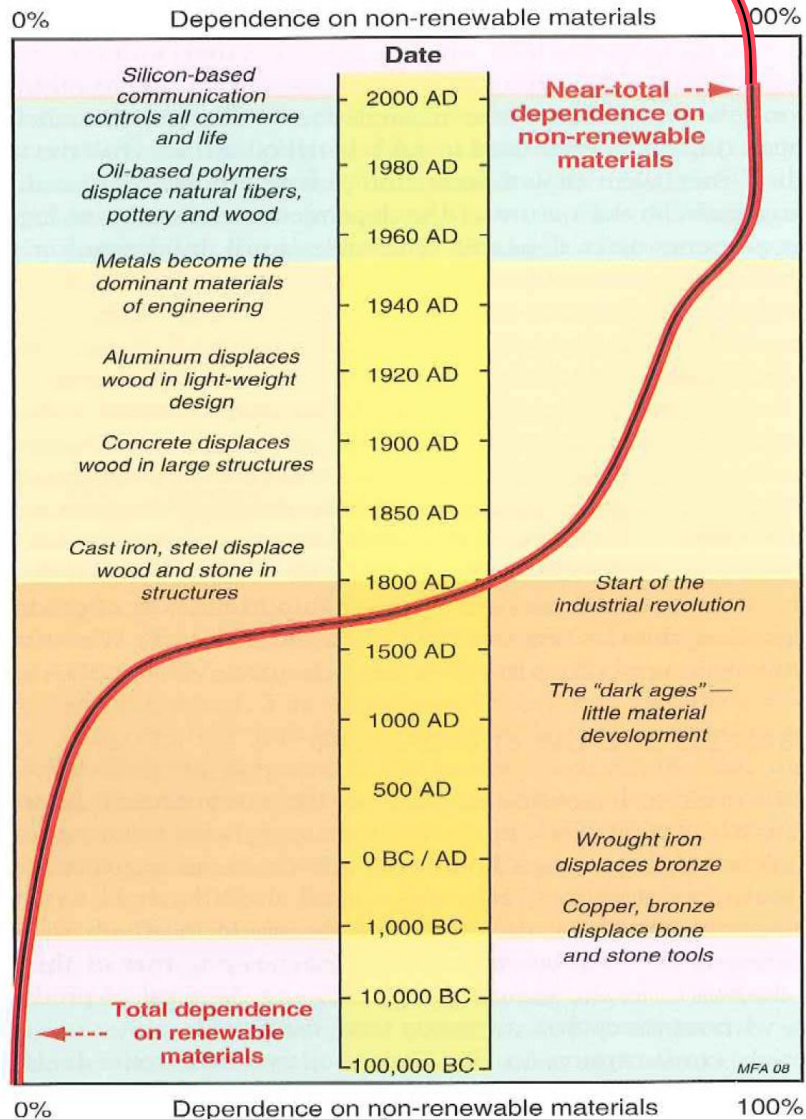


STONE TOOL TECHNOLOGY

As hominins evolved, so did their tools, becoming smaller, easier to grip and more complex.



Materials Ages



How to get back to sustainability?

- Solar cells
- Batteries
- Electrolysers
- Fuel cells
- ...



Materialphysik

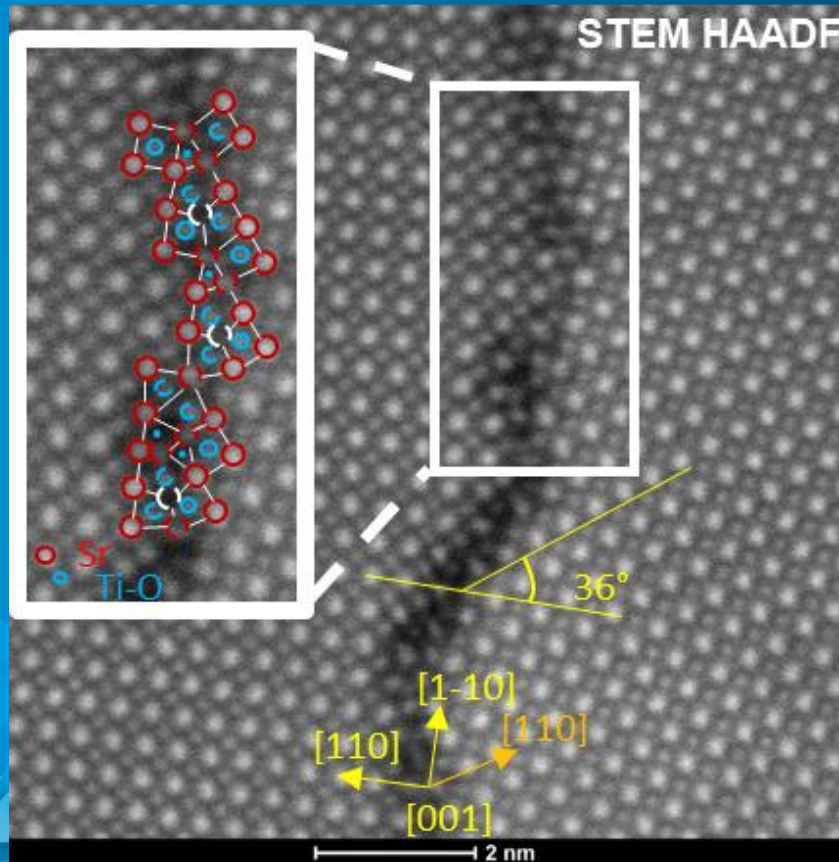


Physik
Chemie
Ingenieurwissenschaften

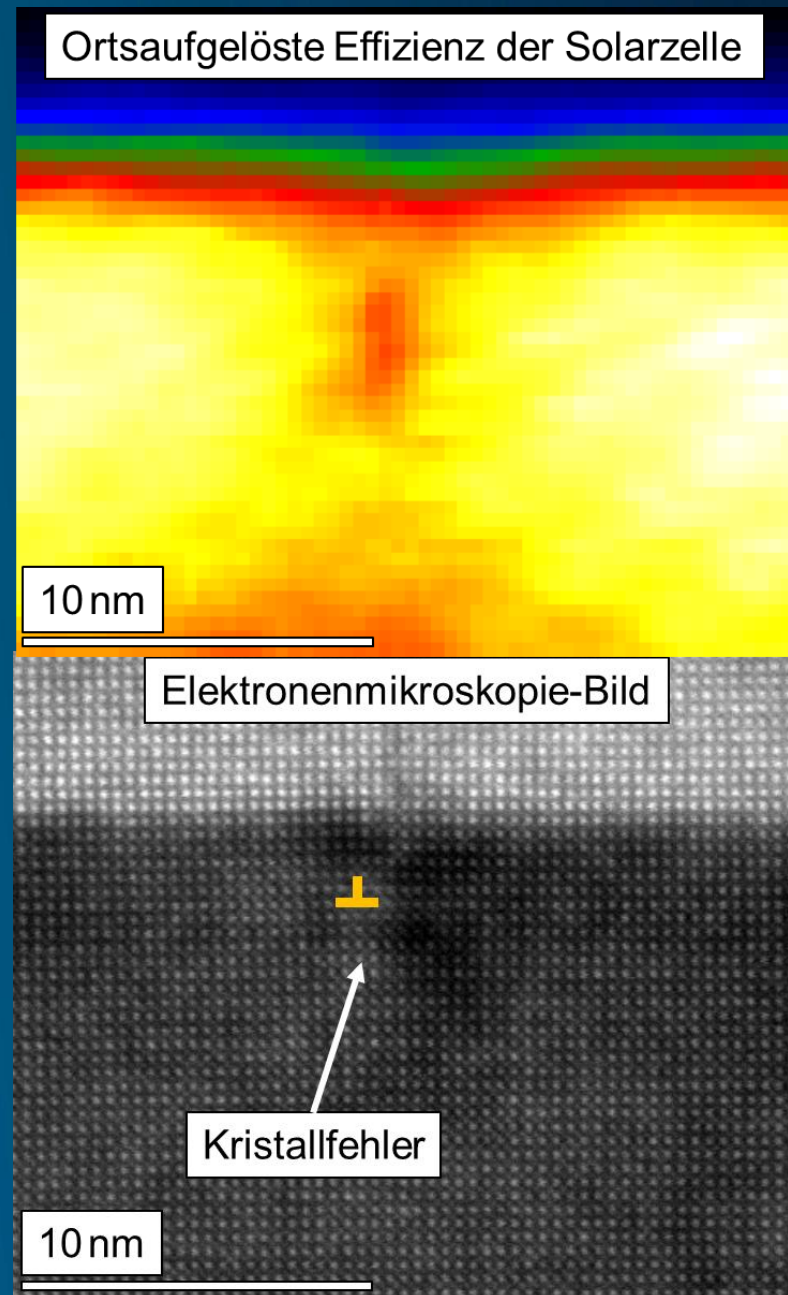


Beispiele

Atomare Struktur der Korngrenze
eines Ionenleiters



Ortsaufgelöste Effizienz der Solarzelle



Veranstaltungs-Angebot

- Introduction to Materials Physics, 4C block course, B.Phy.1531
- Materials Physics I: Microstructure-Property-Relations, 4C lecture, M.Phy.5705
- Materials Physics II: Kinetics and Phase Transformations, 4C lecture, M.Phy.5706

Spezialvorlesungen:

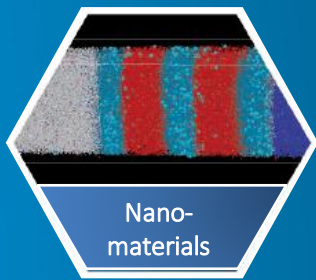
Materials research with electrons

Mechanism and Materials for renewable energy

Thin Films: Science and Industrial Demand

On the unity of humans and nature





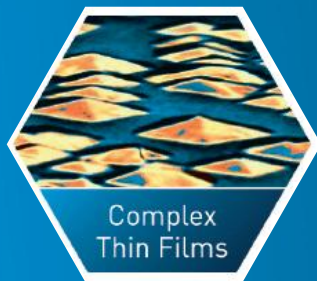
Cynthia Volkert:

Materials for a Hydrogen Economy,
Li Ion Battery Electrode Materials



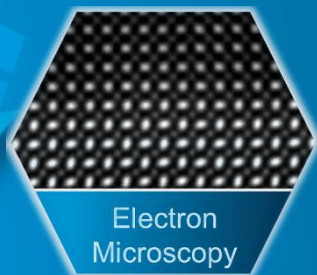
Christian Jooss:

Material design of complex oxide
energy materials
Photovoltaics, (Photo-)Electrochemistry



Jasnamol Palakkal:

Thin film technology
Magnetic, Optoelectronic, and Catalyst
Materials



Tobias Meyer:

Electron microscopy of energy
materials: Solar cells & catalysts

