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“We live in a materials world!” Historically, this sentence has become prophecy and arguably most technologies affecting our lives are inevitably relying on key materials. Would there be microelectronics without mastering inorganic semiconductors, most notably silicon, or would there be plastics without tailoring organic polymers? Absolutely not! So, it is clear that future progress will depend on the continuing evolution and smart combination of materials. In particular in the field (opto-)electronics, materials with specific optical and electronic properties, are being merged to construct advanced devices with new functions.

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- Electronic structure theory
- Synthesis of molecular materials
- Spectroscopic techniques
- Material classes and properties
- Interfacial design and analysis
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Prof. Stefan Hecht, PhD
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