

NANO244 Materials- and Nanochemistry

Curriculum (Pensum) for fall 2017

Text books:

L. E. Smart, E. A. Moore, Solid State Chemistry: An Introduction, Fourth Edition, CRC Press, 2012 (ISBN 9781439847909).

Chapters 1-4, 5.1, 5.2, 5.8, 5.9, 6-8, 10

L. Cademartiri, G. A. Ozin, Concepts of Nanochemistry, Wiley-VCH, 2009 (ISBN 978-3-527-32597-9).

Chapters 1-8

Articles:

R. Hoffmann, "How Chemistry and Physics Meet in the Solid State", *Angew. Chem. Int. Ed.* **1987**, 26, 846-878.

Book excerpt:

Malkiat S. Johal, "Understanding Nanomaterials", CRC Press, 2011 (ISBN 978-1-4200-7310-2), p. 130-140.

Malkiat S. Johal, "Understanding Nanomaterials", CRC Press, 2011 (ISBN 978-1-4200-7310-2), p. 195-199.

In addition, the curriculum includes the content of the lectures, lab exercises and reports, and additional literature advised for reading during the course.

The complete curriculum is relevant for the exam.