

NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTEL Video Course - Chemistry and Biochemistry - NOC:Reagents in Organic Synthesis

Subject Co-ordinator - Prof.Subhas Chandra

Co-ordinating Institute - IIT - Guwahati

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

Lecture 1 - Chromium Based Reagents for Oxidation
Lecture 2 - Non-metal based Reagents for Oxidation
Lecture 3 - Organic Peroxides
Lecture 4 - Oxidation Mediated by DDQ, CAN and SeO₂
Lecture 5 - Oxidation Mediated by Mn and Ag
Lecture 6 - Oxidation by Ru, Hypervalent Iodine, Al and Na based Reagents
Lecture 7 - Na and Li Metal based Reduction
Lecture 8 - Hydride based Reduction
Lecture 9 - Hydrogenation
Lecture 10 - Al, Zn and Li Based Reagents for Reduction
Lecture 11 - Reduction With Boranes, Diimide and Trialkylsilanes
Lecture 12 - Li Based Reagents in Organic Synthesis
Lecture 13 - Mg and Na Based Reagents in Organic Synthesis
Lecture 14 - B Based Reagents in Organic Synthesis
Lecture 15 - B and Al Based Reagents in Organic Synthesis
Lecture 16 - S Based Reagents in Organic Synthesis
Lecture 17 - P Based Reagents in Organic Synthesis
Lecture 18 - Si and Pb Based Reagents in Organic Synthesis
Lecture 19 - Sn and Bi Based Reagents in Organic Synthesis
Lecture 20 - Ti Based Reagents in Organic Synthesis
Lecture 21 - Ru Based Reagents in Organic Synthesis
Lecture 22 - Pd Based Reagents in Organic Synthesis
Lecture 23 - Cu Based Reagents in Organic Synthesis
Lecture 24 - Cr and Mn Based Reagents in Organic Synthesis
Lecture 25 - Zn and Hg Based Reagents in Organic Synthesis
Lecture 26 - Au Based Reagents in Organic Synthesis
Lecture 27 - Fe and Co Based Reagents in Organic Synthesis
Lecture 28 - Ag and Rh Based Reagents in Organic Synthesis
Lecture 29 - Ni, Pt and Ir Based Reagents in Organic Synthesis

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- Lecture 30 - Introduction to Lanthanides and Sm Based Reagents
- Lecture 31 - Samarium(II) Iodide Based Reagents in Organic Synthesis
- Lecture 32 - Sm and Yb Based Reagents in Organic Synthesis