Selection of Topics for Presentation in the Lecture
"Economic Optimization" - SS2018

Gas Turbines

Steam Plants

Combined Cycle Plants

Economic Optimisation

Carbon Capture and Storage
11. Zero CO2 emission SOLRGT power system (2012)
14. Optimization of Thermodynamically Efficient Nominal 40 MW Zero Emission Pilot and Demonstration Power Plant in Norway
17. Proposal and Analysis of a Novel Zero CO2 Emission Cycle With Liquid Natural Gas Cryogenic Exergy Utilization
18. Chemical Looping Combustion – Analysis of Natural Gas Fired Power Cycles With Inherent CO2 Capture
20. CO2 capture from power plants Part II. A parametric study of the economical performance based on mono-ethanolamine (2007)
26. Exergetic comparison of CO2 capture techniques from solid fossil fuel power plants (2016)
27. Techno-economic evaluation of the evaporative gas turbine cycle with different CO2 capture options (2012)
28. Analysis of Gas-Steam Combined Cycles With Natural Gas Reforming and CO2 Capture
29. Techno-economic evaluation of an integrated hydrogen and power co-generation system with CO2 capture (2016)
32. Thermodynamic Performance of IGCC with Oxy-Combustion CO2 Capture
33. Overall environmental impacts of CCS technologies—A life cycle approach (2012)

**Renewables**
34. Analysis of the Conversion of Ocean Wind Power into Hydrogen (2013)
35. MPC for airborne wind energy generation (2013)
36. Design and implementation of an innovative 190ºC solar ORC pilot plant at the PSA (2011)
42. Wirtschaftliche Bewertung von Stromspeichertechnologien (2012)