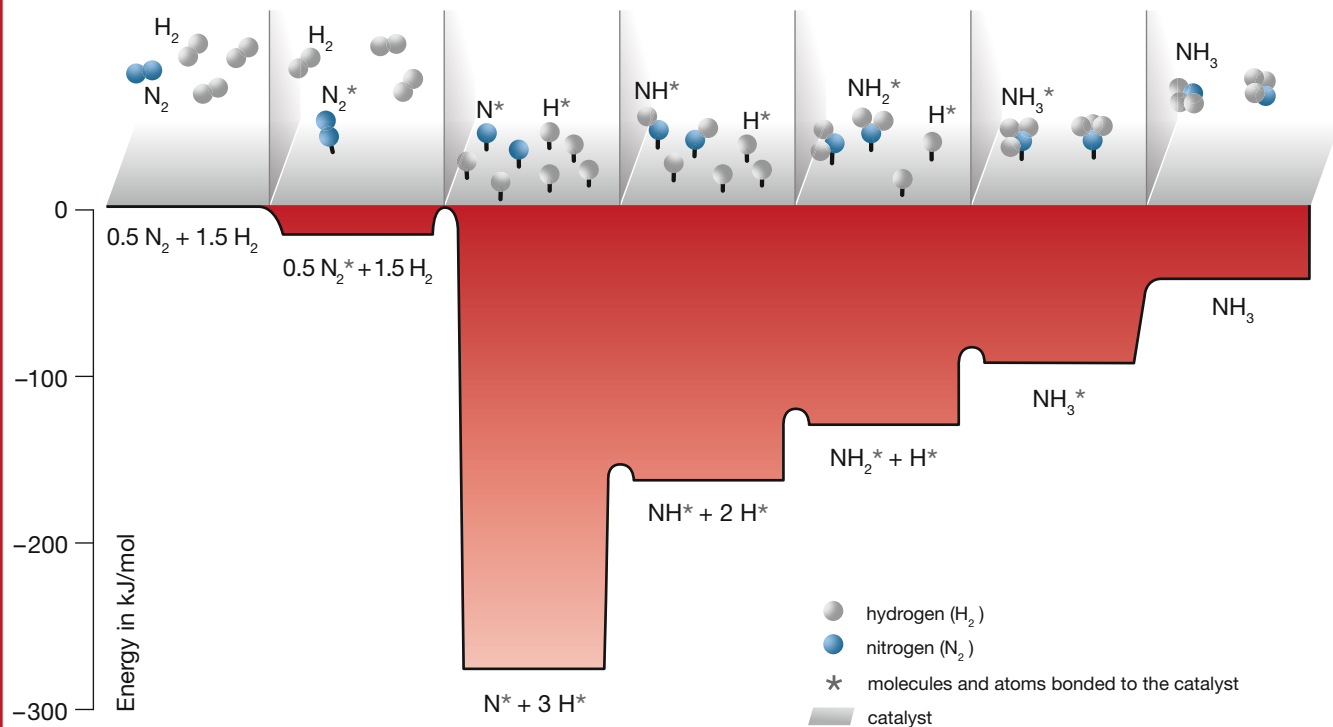


# Energy profile of the catalytic ammonia synthesis



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The catalytic reaction of ammonia synthesis on iron catalysts in individual steps: The adsorption and separation of  $N_2$  and  $H_2$  at the catalyst liberates a relatively high amount of energy which is largely consumed in the production of ammonia and on leaving the catalyst. (Source: Chemie in unserer Zeit, 2006)