

CHAPTER V

CONCLUSIONS

By using carbon xerogel as a support in biodiesel upgrading, the energy (pressure and temperature) and amount of catalyst can be reduced, when compared with using granule activated carbon. Moreover, carbon xerogel can be used as a TiO_2 support for photocatalytic degradation of 4-nitrophenol. Carbon xerolge also acted as an adsorbent which resulted in an enhancement of photocatalytic degradation when compared with commercial TiO_2 or synthesized porous TiO_2 using carbon xerogel as a template.