

Title (29)	:	Performance study of Ni-alumina catalyst towards biodiesel production
Journal	:	AIP Conference Proceedings
Document Type	:	Conference Paper
Publisher	:	AIP Publishing
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Link to Full Text	:	https://pubs.aip.org/aip/acp/article-abstract/2923/1/040029/3279801/Performance-study-of-Ni-alumina-catalyst-towards?redirectedFrom=fulltext
Link to Scopus Preview	:	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85190704531&doi=10.1063%2f5.0195478&partnerID=40&md5=989e1fb4aee9f4efe467ace65e8e8c72
Abstract	:	The production of biodiesel has garnered a considerable focus from academics during the past few years due to the fact that it is suitable as an alternate fuel to diesel and may be utilized without any engine modification. The nickel-alumina catalyst was prepared using the wet impregnation method and its efficacy in the transesterification process was evaluated. Through a photocatalytic transesterification process, waste cooking oil (WCO) was utilised in the production of biodiesel. Overall, good photocatalytic transesterification performance was reported in the study, and the highest yield of biodiesel was produced at 73% using Ni-alumina, compared to bare nickel and alumina, which yielded 11% and 3% biodiesel, respectively.