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Arpn Journal of Engineering and Applied Sciences, 2017

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Madiwale, S., Alagu, K., Bhojwani, V.K., Dombale, M.

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Channapattana, S.V., Pawar, A.A., Kamble, P.G.

Applied Energy, 2017

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Channapattana, S.V., Pawar, A.A., Kamble, P.G.

Biofuels, 2016

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Energy Procedia, 2015

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