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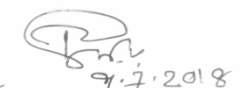
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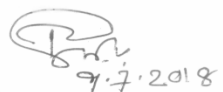
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Instances where selected sources appear:

89


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CERTIFICATE

This is to certify that the thesis entitled “Explorative studies on carbon-nitrogen (C-N) bond formation and Synthesis of nitrogen containing heterocyclic compounds” submitted by Sri. Rakesh Ranjan Chakraborty for the award of Ph.D degree of the University of North Bengal, has carried out the entire research work under my supervision at the Department of Chemistry, University of North Bengal, Darjeeling, West Bengal, India -734013.

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