



Research Topics in Renewable Energy for 2019

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<b>Fakulteit / Faculty:</b> Engineering		<b>Department / Department:</b> Electrical and Electronic		
<b>Navorsingsarea / Area of Research:</b> Power Electronics				
<b>Algemene beskrywing van navorsingsveld / General description of research area:</b> The design optimisation and control of high-efficiency, grid-connected power electronic converters.				
<b>Lys van onderwerpe/List of topics:</b>		<b>M.Eng. (Research)</b>	<b>Ph.D.</b>	<b>Funding</b>
High-efficiency grid-connected PV inverter based on the flying capacitor topology.		x		No
Modular energy-storage building blocks with minimal battery ripple current.		x		No
<b>Spesifieke voorvereistes / Specific requirements:</b> A Masters degree in the relevant scientific field of study is required to enrol for a PhD and an Honours degree in the relevant field is required to enrol for a Masters. B.Eng. in Electrical or Electronic Engineering				
<b>Befondsing beskikbaar / Funding available:</b> No				