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MINISTRY OF HIGHER EDUCATION AND  
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# Publications of Pr. Dehimi Lakhedar

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Title	Link
Performance enhancement of eco-friendly Cs <sub>3</sub> Sb <sub>2</sub> I <sub>9</sub> -based perovskite solar cell employing Nb <sub>2</sub> O <sub>5</sub> and CuI as efficient charge transport layers	<a href="https://scholar.google.com/citations?view_op=view_citation&amp;hl=fr&amp;user=UER11cUAAAAJ&amp;sortby=pub-date&amp;citation_for_view=UER11cU-A AAAJ:bFI3QPDXJZMC">https://scholar.google.com/citations?view_op=view_citation&amp;hl=fr&amp;user=UER11cUAAAAJ&amp;sortby=pub-date&amp;citation_for_view=UER11cU-A AAAJ:bFI3QPDXJZMC</a>
Plasmon-enhanced Graphene/4H-SiC/graphene metal-semiconductor-metal ultraviolet photodetector: Concept and optimization	<a href="https://scholar.google.com/citations?view_op=view_citation&amp;hl=fr&amp;user=UER11cUAAAAJ&amp;sortby=pub-date&amp;citation_for_view=UER11cU-A AAAJ:yD5IFk8b50cC">https://scholar.google.com/citations?view_op=view_citation&amp;hl=fr&amp;user=UER11cUAAAAJ&amp;sortby=pub-date&amp;citation_for_view=UER11cU-A AAAJ:yD5IFk8b50cC</a>
Paths towards high perovskite solar cells stability using machine learning techniques	<a href="https://scholar.google.com/citations?view_op=view_citation&amp;hl=fr&amp;user=UER11cUAAAAJ&amp;sortby=pub-date&amp;citation_for_view=UER11cU-A AAAJ:cFHS6HbyZ2cC">https://scholar.google.com/citations?view_op=view_citation&amp;hl=fr&amp;user=UER11cUAAAAJ&amp;sortby=pub-date&amp;citation_for_view=UER11cU-A AAAJ:cFHS6HbyZ2cC</a>
Combined DMC-Genetic Algorithm approaches for IGZO/P3HT: PCBM inorganic/organic solar cell design optimization	<a href="https://scholar.google.com/citations?view_op=view_citation&amp;hl=fr&amp;user=UER11cUAAAAJ&amp;sortby=pub-date&amp;citation_for_view=UER11cU-A AAAJ:dfsIfKJdRG4C">https://scholar.google.com/citations?view_op=view_citation&amp;hl=fr&amp;user=UER11cUAAAAJ&amp;sortby=pub-date&amp;citation_for_view=UER11cU-A AAAJ:dfsIfKJdRG4C</a>
Role of a thin interfacial oxide layer and optimized electrodes in improving the design of a Graphene/n-Si MSM photodetector	<a href="https://scholar.google.com/citations?view_op=view_citation&amp;hl=fr&amp;user=UER11cUAAAAJ&amp;sortby=pub-date&amp;citation_for_view=UER11cU-A AAAJ:zA6iFVUQeVQC">https://scholar.google.com/citations?view_op=view_citation&amp;hl=fr&amp;user=UER11cUAAAAJ&amp;sortby=pub-date&amp;citation_for_view=UER11cU-A AAAJ:zA6iFVUQeVQC</a>
An Enhanced Conversion Efficiency of Metal Insulator Semiconductor Solar Cells by Using Different High-K Dielectrics	<a href="https://scholar.google.com/citations?view_op=view_citation&amp;hl=fr&amp;user=UER11cUAAAAJ&amp;sortby=pub-date&amp;citation_for_view=UER11cU-A AAAJ:ldfaerwXgEUC">https://scholar.google.com/citations?view_op=view_citation&amp;hl=fr&amp;user=UER11cUAAAAJ&amp;sortby=pub-date&amp;citation_for_view=UER11cU-A AAAJ:ldfaerwXgEUC</a>
Modeling and optimization of CZTS kesterite solar cells using TiO <sub>2</sub> as efficient electron transport layer	<a href="https://scholar.google.com/citations?view_op=view_citation&amp;hl=fr&amp;user=UER11cUAAAAJ&amp;sortby=pub-date&amp;citation_for_view=UER11cU-A AAAJ:u_35RYKgDlwC">https://scholar.google.com/citations?view_op=view_citation&amp;hl=fr&amp;user=UER11cUAAAAJ&amp;sortby=pub-date&amp;citation_for_view=UER11cU-A AAAJ:u_35RYKgDlwC</a>
Junction temperature measurement in optically-activated power MOSFET	<a href="https://scholar.google.com/citations?view_op=view_citation&amp;hl=fr&amp;user=UER11cUAAAAJ&amp;sortby=pub-date&amp;citation_for_view=UER11cU-A AAAJ:fPk4N6BV_jEC">https://scholar.google.com/citations?view_op=view_citation&amp;hl=fr&amp;user=UER11cUAAAAJ&amp;sortby=pub-date&amp;citation_for_view=UER11cU-A AAAJ:fPk4N6BV_jEC</a>
Improving graphene/4H-SiC/graphene MSM UV photodetector sensitivity using interdigitated electrodes formalism and embedded gold plasmonic nanoparticles	<a href="https://scholar.google.com/citations?view_op=view_citation&amp;hl=fr&amp;user=UER11cUAAAAJ&amp;sortby=pub-date&amp;citation_for_view=UER11cU-A AAAJ:3s1wT3WcHBgC">https://scholar.google.com/citations?view_op=view_citation&amp;hl=fr&amp;user=UER11cUAAAAJ&amp;sortby=pub-date&amp;citation_for_view=UER11cU-A AAAJ:3s1wT3WcHBgC</a>
An Efficient 4H-SiC photodiode for UV sensing applications	<a href="https://scholar.google.com/citations?view_op=view_citation&amp;hl=fr&amp;user=UER11cUAAAAJ&amp;sortby=pub-date&amp;citation_for_view=UER11cUAAAAJ:SeFe-Tyx0c_EC">https://scholar.google.com/citations?view_op=view_citation&amp;hl=fr&amp;user=UER11cUAAAAJ&amp;sortby=pub-date&amp;citation_for_view=UER11cUAAAAJ:SeFe-Tyx0c_EC</a>
Simulation study of carbon vacancy trapping effect on low power 4H-SiC MOSFET performance	<a href="https://scholar.google.com/citations?view_op=view_citation&amp;hl=fr&amp;user=UER11cUAAAAJ&amp;sortby=pub-date&amp;citation_for_view=UER11cU-A AAAJ:35N4QoGY0k4C">https://scholar.google.com/citations?view_op=view_citation&amp;hl=fr&amp;user=UER11cUAAAAJ&amp;sortby=pub-date&amp;citation_for_view=UER11cU-A AAAJ:35N4QoGY0k4C</a>
The role of high-K dielectrics in improving the performance of metal-insulator-semiconductor solar cells	<a href="https://scholar.google.com/citations?view_op=view_citation&amp;hl=fr&amp;user=UER11cUAAAAJ&amp;sortby=pub-date&amp;citation_for_view=UER11cU-A AAAJ:YFjsv_pBGBYC">https://scholar.google.com/citations?view_op=view_citation&amp;hl=fr&amp;user=UER11cUAAAAJ&amp;sortby=pub-date&amp;citation_for_view=UER11cU-A AAAJ:YFjsv_pBGBYC</a>
Simulation study of an optimized current matching for In <sub>0.39</sub> Ga <sub>0.61</sub> N/In <sub>0.57</sub> Ga <sub>0.43</sub> N/In <sub>0.74</sub> Ga <sub>0.26</sub> N triple-junction solar cells	<a href="https://scholar.google.com/citations?view_op=view_citation&amp;hl=fr&amp;user=UER11cUAAAAJ&amp;sortby=pub-date&amp;citation_for_view=UER11cU-A AAAJ:pqnbT2bcN3wC">https://scholar.google.com/citations?view_op=view_citation&amp;hl=fr&amp;user=UER11cUAAAAJ&amp;sortby=pub-date&amp;citation_for_view=UER11cU-A AAAJ:pqnbT2bcN3wC</a>

Study and assessment of defect and trap effects on the current capabilities of a 4H-SiC-based power MOSFET	<a href="https://scholar.google.com/citations?view_op=view_citation&amp;hl=fr&amp;user=UER11cUAAAAJ&amp;sortby=pub-date&amp;citation_for_view=UER11cUAAAAJ:g5m5HwL7SMYC">https://scholar.google.com/citations?view_op=view_citation&amp;hl=fr&amp;user=UER11cUAAAAJ&amp;sortby=pub-date&amp;citation_for_view=UER11cUAAAAJ:g5m5HwL7SMYC</a>
Junction Temperature Measurement in Optically-Controlled Power Mosfet.	<a href="https://scholar.google.com/citations?view_op=view_citation&amp;hl=fr&amp;user=UER11cUAAAAJ&amp;sortby=pub-date&amp;citation_for_view=UER11cUAAAAJ:M05iB0D1s5AC">https://scholar.google.com/citations?view_op=view_citation&amp;hl=fr&amp;user=UER11cUAAAAJ&amp;sortby=pub-date&amp;citation_for_view=UER11cUAAAAJ:M05iB0D1s5AC</a>