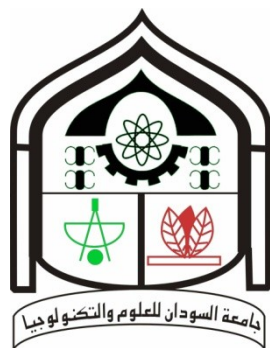


بسم الله الرحمن الرحيم



**Sudan University of Science
and Technology**

College of Graduate Studies



Study of the Efficiency of polymer Solar Cells Fabricated from Natural Dyes and Chemical Dyes

**دراسة كفاءة الخلايا الشمسية البوليمرية المصنوعة
من الصبغات الطبيعية و كيميائية**

A thesis Submitted in partial fulfillment for the
requirements of master degree in solid state physics

By

Sarah Ezzedine Hamza Mudawi

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