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### International Review on Modelling and Simulations (IREMOS)

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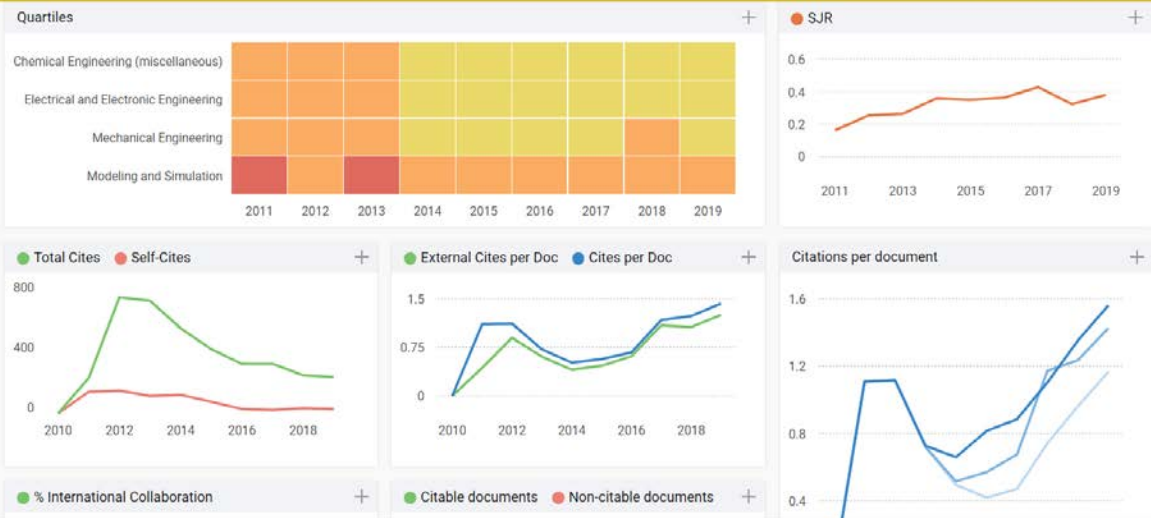
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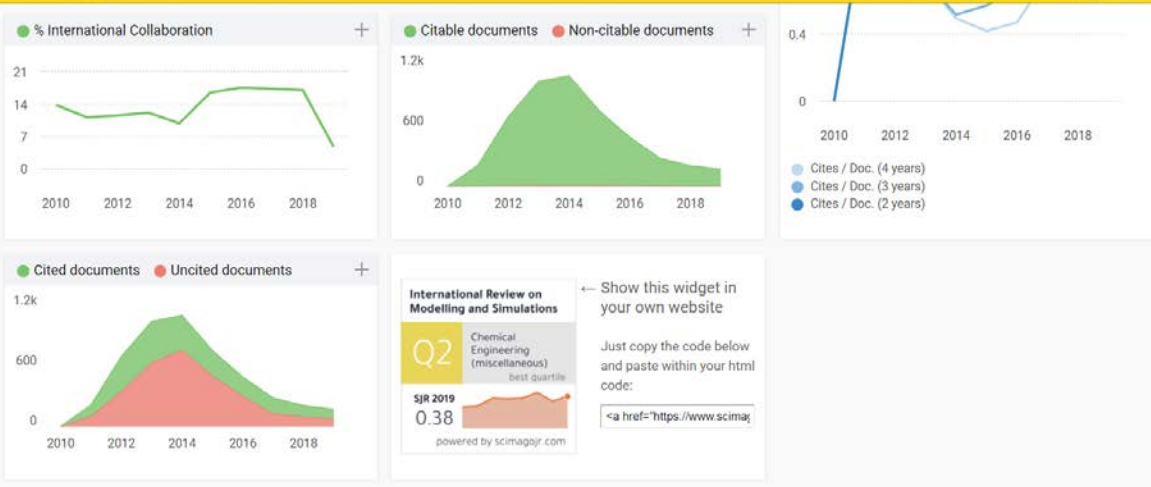
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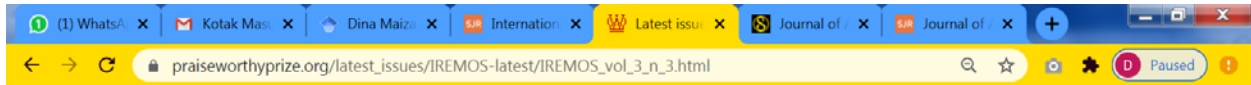


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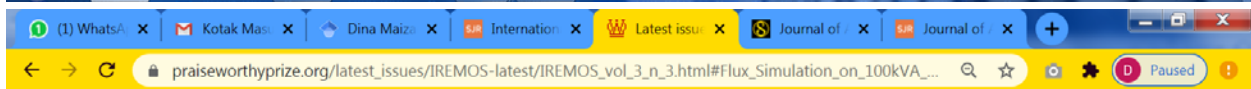
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#### Flux Simulation on 100kVA Three-Phase Transformer Core by Dina M. M. Ahmad, I. Daif, S. Taib Vol. 3 n. 3, pp. 340-343

**Abstract** - This paper describes the simulation of flux distribution on 100kVA 3 phase distribution transformer assembled with 60°-45° T-joint and mitred lap corner joint with stagger yoke and limb. The core that being used is 3% Silicon Iron Cold Rolled Grain Oriented (CRGO) material. The flux distributions have been simulated using 2 Dimensions Finite Element Method (2DFEM) based on a vector potential formulation. The loss of transformer core lamination is calculated using the hysteresis curve. The simulation shows that 1.78 T flux density was maximum at the centre limb of transformer core, hence produced the losses of 2.54 W/kg. The transformer core assembled with 60°-45° T-joint is more efficient than the transformer core assembled with 90° T-joint.

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**Keywords:** Finite Element, Hysteresis, Flux Distribution, Core Loss.

#### Performance Efficiency Evaluation of the Electricity Produced by Photovoltaic Cell Systems of 1-5 kWp in Thailand by Nann Watanakul, Singthong Pattanasethanon Vol. 3 n. 3, pp. 344-352

**Abstract** - An electricity-producing system using a Photovoltaic system, a project initiated by Thailand's King, his majesty King Bhumibol Adulyadej, has been established across Thailand where schools, public health centers, and a wide range of other end users are located. The 198 PV Cell stations (1-5kWp) are currently installed around the country; ten of which were selected for evaluation in this study. The evaluation included analyses of the station's present performance levels and an assessment of the potential for expansion of the overall system. The PV Cell system includes PV stand alone stations, PV grid connection stations and PV water pumping stations. All stations use Mono Silicon (Si), Poly Si, Hybrid and Amorphous type PV cells. The evaluation of the PV cell system's potential for future expansion was based on the International Agency Photovoltaic Power Systems TASK 2 - Performance, Reliability, and Analysis of Photovoltaic Systems (IEA PVPS Task 2). The results show that these three stations of systems are performing as designed, exceed the performance levels of similar systems in other countries, and can be further developed.

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**Keywords:** PV Stand alone System (PVSAS), PV Grid Connection System (PVGCS), PV Water Pumping System (PVWPS), Performance Ratio (PR), Production Factor (PF).

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