

# Cover Letter

Dear Editor of ETASR,

I am submitting a manuscript for consideration of publication in *Engineering, Technology & Applied Science Research*. The manuscript is entitled “**DSOGI-based Flexible Grid Connection of PV Power Three Phase Converters under Non-Ideal Grid Conditions**”.

It has not been published elsewhere and that it has not been submitted simultaneously for publication elsewhere.

A Second-Order Generalized Integrators-Based Approach (SOGI-BA), which suitably fits with the network's imbalances while ensuring the perfect isolation of a photovoltaic generator (PVG) from the adverse effects of the imbalance, is investigated. The investigation focuses mainly on three control objectives; the generation of a balanced current system, the active and reactive power's dependent control, and the elimination of the second frequency DC bus voltage fluctuations. Compared to other well-established approaches, the performance of this new approach is approved by various tests via MATLAB environment simulations. The obtained results show a valuable contribution in ensuring the service continuity even during asymmetrical grid voltage faults.

Thank you very much for your consideration.

Yours Sincerely,

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