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RESEARCH

Areas: Electrical and Electronic Engineering · Renewable Energy, Sustainability and the Environment · Control and Systems Engineering · Pollution · Artificial Intelligence · Energy Engineering and Power Technology

RESEARCH SUMMARY

15	136	5	3	1.27	7%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 15 publications listed below, 2014–2025. Field-weighted impact is the mean over the 15 works scored for it; 1.00 is the world average for works of the same field, type and year. 1 of the 15 papers scored for it are among the world's most cited tenth for their field, type and year.

PUBLICATIONS

Journal articles 9

1. Emmanuel K. Effah, Francis B. Effah, Philip Y. Okyere, **Emmanuel K. Anto** (2025). Robust Adaptive Control of Dual Active Bridge DC-DC Converter with Constant Power Loading. *Power Electronics and Drives*. https://doi.org/10.2478/pead-2025-0004
2. Emmanuel K. Effah, **Emmanuel K. Anto**, Philip Y. Okyere, Francis B. Effah (2024). Model Reference Adaptive Control of SPS-Based Dual Active Bridge Converter with Constant Power Loading. *Power Electronics and Drives*. https://doi.org/10.2478/pead-2024-0022
3. Armstrong Okai Ababio, Gabriel Takyi, **Emmanuel Kwaku Anto** (2021). Optimum Sizing and Siting of an Embedded Solar Photovoltaic Generation: A Case Study of 33 kv Sub-Transmission Network at Tarkwa, Ghana. *Journal of Power and Energy Engineering*. https://doi.org/10.4236/jpee.2021.93001
4. Theophilus Frimpong Adu, **Emmanuel Kwaku Anto**, Emmanuel Ramde, Lena Dzifa Mensah (2020). Determination of Optimum Tilt Angle for Rooftop Solar Photovoltaic System Installation for KikuKinderhaus in Kumasi. *International Journal of Energy and Environmental Science*. https://doi.org/10.11648/j.ijees.20200501.12
5. N. Asiedu, P. Adu, **E.K. Anto**, A. Duodu (2019). Energy economics and optimal generation mix of selected power plants technologies in Ghana. *Scientific African*. https://doi.org/10.1016/j.sciaf.2018.e00015
6. David A. Quansah, Muyiwa S. Adaramola, **Emmanuel K. Anto** (2017). Cost-competitiveness of distributed grid-connected solar photovoltaics in Ghana: case study of a 4 kWp polycrystalline system. *Clean Technologies and Environmental Policy*. https://doi.org/10.1007/s10098-017-1432-z
7. David A. Quansah, Saviour K. Woangbah, **Emmanuel K. Anto**, Emmanuel K. Akowuah, Muyiwa S. Adaramola (2017). TECHNO-ECONOMICS OF SOLAR PV-DIESEL HYBRID POWER SYSTEMS FOR OFF-GRID OUTDOOR BASE TRANSCEIVER STATIONS IN GHANA. *International Journal of Energy for a Clean Environment*. https://doi.org/10.1615/interjenercleanenv.2017019537
8. James Okae, Juan Du, E.K. Akowuah, G. Appiah, **E.K. Anto** (2017). The Design and Realization of Smart Energy Management System based on Supply-Demand Coordination. *IFAC-PapersOnLine*. https://doi.org/10.1016/j.ifacol.2017.08.033
9. David A. Quansah, Muyiwa S. Adaramola, Isaac A. Edwin, **Emmanuel K. Anto** (2016). An Assessment of

Grid-Charged Inverter-Battery Systems for Domestic Applications in Ghana. *Journal of Solar Energy*. https://doi.org/10.1155/2016/5218704

Conference papers 6

1. Joe Oteng-Adjei, Abdul-Majid Issah Malori, **Emmanuel Kwaku Anto** (2020). Generation System Adequacy Assessment Using Analytical Technique. *2020 IEEE PES/IAS PowerAfrica*. https://doi.org/10.1109/powerafrica49420.2020.9219789
2. Joe Oteng-Adjei, Abdul-Majid Issah Malori, **Emmanuel Kwaku Anto** (2020). Generation System Expansion Planning Using Loss of Load Expectation Criterion. *2020 IEEE PES/IAS PowerAfrica*. https://doi.org/10.1109/powerafrica49420.2020.9219822
3. Ekow Appiah Kwofie, Godfred Mensah, **Emmanuel Kwaku Anto** (2017). Determination of the optimal power factor at which DG PV should be operated. https://doi.org/10.1109/powerafrica.2017.7991256
4. **Emmanuel Kwaku Anto**, Johnson A. Asumadu, Philip Yaw Okyere (2016). PID control for improving P&O-MPPT performance of a grid-connected solar PV system with Ziegler-Nichols tuning method. https://doi.org/10.1109/iciea.2016.7603888
5. **Emmanuel K. Anto**, Philip Y. Okyere, Johnson A. Asumadu (2014). Critical sampling period for an open-loop perturband-observe (P&O) maximum power point tracking (MPPT) grid-connected solar photovoltaic (PV) system. https://doi.org/10.1109/pedg.2014.6878687
6. **Emmanuel K. Anto**, Philip Y. Okyere, Johnson A. Asumadu (2014). Critical voltage perturbation size for an open-loop perturb-and-observe (P&O) maximum power point tracking (MPPT) grid-connected solar photovoltaic (PV) system. https://doi.org/10.1109/pvsc.2014.6925299