

### **Dual-purpose dc-dc/ac PWM modular power converter as grid-forming unit in a droop-controlled ac nanogrid**

Roncero-Clemente, Carlos; Escalona, Javier-Gutiérrez; **Matiushkin, Oleksandr**; Pires, V. Fernão; Milanés-Montero, María Isabel; **Romero-Cadaval, Enrique** IECON Proceedings (Industrial Electronics Conference) IECON 2024 - 50th Annual Conference of the IEEE Industrial Electronics Society 2024 / 6 p <https://doi.org/10.1109/IECON55916.2024.10906022> [Conference proceedings at Scopus](#)  
[Article at Scopus](#)

### **Full SiC three-level T-type quasi-Z source inverter as grid-forming unit in islanded nanogrid**

Gutiérrez-Escalona, Javier; Roncero-Clemente, Carlos; **Matiushkin, Oleksandr**; González-Romera, Eva; Pires, V. Fernão; Romero-Cadaval, Enrique IET renewable power generation 2025 / art. e70051 <https://doi.org/10.1049/rpg2.70051>