

Publications

1) International journals

- [A1]. Dambone Sessa S., Sanniti F., Greco A., Talomo S., Pajussin M., Benato R.: **“An Online Single-Ended Traveling Waves Fault Detection Algorithm for High-Voltage Multi-Branch Overhead Lines”**, IEEE Access, Vol. 12, pp. 89691 - 89706, 2024.
- [A2]. Musso A., Cavallucci L., Angeli G., Bocchi M., L’Abbate A., Vitulano L.C., Dambone Sessa S., Sanniti F., Breschi M.: **“Techno-Economic Assessment of Coaxial HTS HVAC Transmission Cables with Critical Current Grading between Phases Using the OSCaR Tool”**, Applied Sciences, Vol. 14, Issue 17, 2024.
- [A3]. Benato, R., Dambone Sessa, S., Sanniti, F.: **“Analytical formulation for estimating power low frequency oscillations between two overhead lines operating at different frequencies”**, International Journal of Electrical Power and Energy Systems, Vol. 153, 2023.
- [A4]. Benato, R., Dambone Sessa, S., Giannuzzi, G.M., ...Poli, M., Sanniti, F.: **“Analysis and Explanation of Resonant Phenomena Involving EHV Transformers during Power System Restoration Tests”**, Energies, Vol. 16, Issue 9, 2023.
- [A5]. Trovò, A., Marini, G., Zamboni, W., Dambone Sessa, S.: **“Redox Flow Batteries: A Glance at Safety and Regulation Issues”**, Electronics, Vol 12, Issue 8, 2023.
- [A6]. Benato, R., Dambone Sessa, S., Gardan G., Palone, F., Sanniti, F.: **“Experimental Harmonic Validation of 3D Multiconductor Cell Analysis: Measurements on the 100 km Long Sicily-Malta 220 kV Three-Core Armoured Cable”**, IEEE Transactions on Power Delivery, Vol. 37, issue 1, 2022.
- [A7]. Benato, R., Dambone Sessa, S., Giannuzzi, G.M.,...Poli, M.,Sanniti, F.: **“A Novel Dynamic Load Modeling for Power Systems Restoration: An Experimental Validation on Active Distribution Networks”**, IEEE Access, Vol. 10, 2022.
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- [A10]. Benato, R., Dambone Sessa, S.: **“The Ossanna's theorem for educational purposes: Impact of distributed parameter transmission lines on power systems”**, IEEE ACCESS, Vol. 9, pp. 10577-10585, 2021.
- [A11]. Benato, R., Dambone Sessa S., Forzan, M., Poli, M., Sanniti, F., Torchio, R.: **“HVAC Single Core Insulated Cables with Steel Reinforced Mechanical Protections: Effect on Sequence Impedances”**, IEEE Transactions on Power Delivery, Vol. 36, Issue 3, pp. 1663-1671, 2020
- [A12]. Benato, R., Dambone Sessa, S., Poli, M., Sanniti F.: **“Sequence impedances of land single-core insulated cables: Direct formulae and multiconductor cell analyses compared with measurements”**, Energies, 13 (5), 2020
- [A13]. Dambone Sessa S., Chiarelli A., Benato, R.: **“Availability analysis of HVDC-VSC systems: A review”**, Energies, 12(14), 2019.
- [A14]. R. Benato, R. Caldon, A. Chiarelli, M. Coppo, C. Garesci, S. Dambone Sessa, D. Mimo, M. Modesti, L. Mora, F. Piovesan: **“CALAJOULE: An Italian Research to Lessen Joule Power Losses in Overhead Lines by Means of Innovative Conductors”**, Energies, 12(16), 2019.
- [A15]. B. Hennuy, J. Smit, P. Leemans S. Cherukupalli, M. Cabau, M. Stuermer, R. Reinoso, E. Chimi, R. Svoma, L. Molimbi, S. Dambone Sessa, M. Nakanishi: **“Thermal monitoring of cable circuit and grid operators' use of dynamic rating systems”**, ELECTRA No. 303, 2019.

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2) National journals

- [A39]. Benato, R., Dambone Sessa, S., De Zan, R., Paziienza, M., Rebolini, M.: **The Piedmont-Savoy: the new HVDC-VSC interconnection between Italy and France, [La Piemonte - Savoia: la nuova interconnessione tra Italia e Francia con tecnologia HVDC-VSC]**, L'Energia Elettrica, Vol. 95 (4), pp. 29-38, 2018
- [A40]. Benato R., Chiarelli A., Dambone Sessa, S., Napolitano D., Rinzo G.: "**Valutazione della disponibilità di sistemi HVDC VSC monopolari simmetrici in cavo**", Energia Elettrica, 95 (3), pp. 47-53, 2015
- [A41]. Baù M., Poli M., Quaciari C., Benato R., Dambone Sessa, S.: "**High voltage networks with isolated neutral: Methods for the detection of the single-phase fault distance**" [Reti in Alta tensione a neutro isolato: Metodi per la rilevazione della distanza di guasto monofase]", L' Energia Elettrica, 93(6), pp. 49-57.
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3) *International conferences*

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- [A47]. Benato, R., Dambone Sessa, S., Del Pizzo, F., Poli, M., Sanniti, F.: **"On-Field Application of a Travelling Wave Based Fault Location Method for Unearthed Overhead Line Networks"**, IEEE International Conference on Environment and Electrical Engineering 2024.
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- [A50]. Carbonara, A., Dambone Sessa, S., Sanniti, F., ...Gandolfi, C., L'Abbate, A.: **"Screening Advanced FACTS and State-of-the-Art Technologies to Improve Power Systems Stability with High RES Penetration"**, 115th AEIT International Annual Conference, AEIT 2023.
- [A51]. Benato, R., Dambone Sessa, S., Sanniti, F.: **"On the CIM Modelling Approach for the Frequency Estimation of a Power System Restoration Process"**, IEEE International Conference on Environment and Electrical Engineering 2023.
- [A52]. Biasiotti, G., Sessa, S.D., Sanniti, F., Talomo, S.: **"Impact of the Transformer Stray Capacitances on the Ground Mode Current in Unearthed OHL Networks: Analysis of the Travelling Waves Propagation"**, IEEE International Conference on Environment and Electrical Engineering 2023
- [A53]. Vitulano, L.C., L'Abbate, A., Dambone Sessa, S., Calisti, R., Sanniti, F.: **"Assessment of technical and economic elements for HVAC-to-HVDC OHL conversion in Sicilian grid"**, AEIT HVDC International Conference, AEIT HVDC 2023.
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- [A88]. Benato, R., Dambone Sessa S., Colla, L., Marelli, M.: **“Insulated cable systems with high current ratings, case studies and practical applications”**, 2014 AEIT Annual Conference - From Research to Industry: The Need for a More Effective Technology Transfer.
- [A89]. Benato, R., Dambone Sessa S., Crugnola, G., Todeschini, M., Zin, S.: **“Sodium nickel chloride cell model for stationary electrical energy storage”**, 2015 AEIT International Annual Conference, AEIT 2015.
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- [A91]. Benato, R., Dambone Sessa S., Guglielmi, F., Partal, E., Tleis, N.: **“Ground return current behaviour in HVAC insulated cables by means of MCA”**, Proceedings of the 2014 IEEE Power Engineering Society Transmission and Distribution Conference.

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4) *Technical brochures*

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