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Projekter

ActRes: Agency for resilience – Making people and energy systems fit for climate change and crises

Hellwig, R. T. (PI (principal investigator)), dos Santos, L. F. (Projektdeltager), Berger, C. (Projektdeltager), Horvath, A.-S. (Projektdeltager), Horsbøl, A. (Projektdeltager), Vasquez, J. C. (Projektdeltager), Raftopoulos, M. (Projektdeltager), Yuan, M. (Projektdeltager), Rüdiger, M. (Projektdeltager), Sahoo, S. (Projektdeltager) & Guan, Y. (Projektdeltager)
01/09/2023 → 31/12/2025

Dynamic Performance and Power Quality of Large-Scale Grid-Connected Wind Power Plants

Ullah, M. (PI (principal investigator)), Guerrero, J. M. (Supervisor), Vasquez, J. C. (Supervisor) & Guan, Y. (Supervisor)
01/03/2023 → 28/02/2026

LastWind: Large-Scale Integration of Wind Power Generation in Ethiopia - LastWind

Guan, Y. (PI (principal investigator)), Guerrero, J. M. (Projektdeltager), Vasquez, J. C. (Projektdeltager), Javidsharifi, M. (Projektdeltager), Yu, Y. (CoPI), Kang, W. (Projektdeltager) & Pugliese, A. A. (Projektkoordinator)
Danida Fellowship Centre
01/08/2023 → 31/07/2026

TECH-IN: Microgrid Technologies for Remote Indonesian Islands

Vasquez, J. C. (PI (principal investigator)), Guan, Y. (Projektdeltager), Vasquez, J. C. (Supervisor), Guerrero, J. M. (Projektdeltager) & Pugliese, A. A. (Projektkoordinator)
Danida Fellowship Centre
01/05/2021 → 30/11/2024

TECH-IN: Microgrid Technologies for Remote Indonesian Islands

Vasquez, J. C. (PI (principal investigator)), Guan, Y. (Projektdeltager), Javidsharifi, M. (Projektdeltager) & Pugliese, A. A. (Projektkoordinator)
01/05/2021 → 30/11/2024

MeTER_Demo: Microgrid Technology Research and Demonstration

Guerrero, J. M. (Projektleder), Wu, D. (Projektdeltager), Guan, Y. (Projektdeltager), Vasquez, J. C. (Projektdeltager) & Savaghebi, M. (Projektdeltager)
01/04/2014 → 31/03/2017

VICINITY: Open virtual neighbourhood network to connect IoT infrastructures and smart objects

Guan, Y. (Projektdeltager), Vasquez, J. C. (Projektdeltager), Guerrero, J. M. (Projektkoordinator) & Miltersen, A. H. (Projektkoordinator)
European Commission
01/01/2016 → 31/12/2019

REMCE: Renewable Energy based Minigrid Clusters in Ethiopia

Chaudhary, S. (PI (principal investigator)), Golestan, S. (Projektdeltager), Guan, Y. (Projektdeltager), Wu, Y. (Projektdeltager), Vasquez, J. C. (Supervisor), Guerrero, J. M. (Supervisor) & Pugliese, A. A. (Projektkoordinator)
Danida Fellowship Centre
01/05/2021 → 31/12/2024

REConnect: Renewable Energy Converters Connected in Parallel

Guerrero, J. M. (PI (principal investigator)), Vasquez, J. C. (Col (co-investigator)), Guan, Y. (Projektansøger) & Guldbæk, B. K. (Projektkoordinator)
ReConvert BV
01/08/2020 → 15/12/2020

REConnect: Renewable Energy Converters Connected to Grid

Guan, Y. (PI (principal investigator)), Guerrero, J. M. (Projektkoordinator), Vasquez, J. C. (Projektleder), Zwam, A. V. (Projektkoordinator), Meersman, B. (Projektdeltager) & Oostveen, B. (Projektdeltager)
01/08/2020 → 31/12/2020

Resilient Planning and Operational Management Systems for Islanded Microgrids in Disaster-Vulnerable Communities (TECH-IN: Microgrid Technologies for Remote and Island Communities under Natural Disasters)

Ali, M. (PI (principal investigator)), Guerrero, J. M. (Supervisor), Vasquez, J. C. (Supervisor) & Guan, Y. (Supervisor)
01/01/2022 → 31/12/2025

To Enhance the Fault Ride Through Capability of Doubly Fed Induction Generator using Direct Matrix Converter for Wind Turbines

Asim, A. (PI (principal investigator)), Vasquez, J. C. (Supervisor), Guan, Y. (Supervisor) & Guerrero, J. M. (Supervisor)
01/10/2023 → 30/09/2026

Aktiviteter

Mission Innovation - Green Energy Community Webinar

Guan, Y. (Foredragsholder)
12 jan. 2021

Chair of a Special Session: Advanced Power Converter Topologies of IEEE ECCE ASIA 2020

Guan, Y. (Andet) & Feng, W. (Andet)
1 dec. 2020

Sweden Electric Power and Power Electronics Conference - Microgrids and Internet of Things

Guan, Y. (Foredragsholder)
3 okt. 2019

Workshop: IoT-driven eEnergy systems (INET) - Advances and Applications

Anvari-Moghaddam, A. (Foredragsholder), Guan, Y. (Foredragsholder), Quintero, J. C. V. (Foredragsholder) & Guerrero, J. M. (Foredragsholder)
30 jul. 2018

Special Issue "IoT and Energy Internet" (Begivenhed)

Guerrero, J. M. (Redaktør), Vasquez, J. C. (Redaktør) & Guan, Y. (Redaktør)
26 jul. 2018 → 9 sep. 2019

Tutorial: The Internet of Energy - The Building Block for the Future Smart Grids

Savaghebi, M. (Foredragsholder), Quintero, J. C. V. (Foredragsholder), Guan, Y. (Foredragsholder) & Guerrero, J. M. (Foredragsholder)
29 okt. 2017

Special Section on "Energy Internet" (Begivenhed)

Guerrero, J. M. (Redaktør), Guan, Y. (Redaktør), Vasquez, J. C. (Redaktør) & Sun, K. (Redaktør)
28 aug. 2017 → 31 dec. 2018

Bevillinger

LastWind: Large-Scale Integration of Wind Power Generation in Ethiopia - LastWind

Guan, Y. (PI (principal investigator)), Guerrero, J. M. (Projektdeltager), Vasquez, J. C. (Projektdeltager), Javidsharifi, M. (Projektdeltager), Yu, Y. (CoPI), Kang, W. (Projektdeltager) & Pugliese, A. A. (Projektkoordinator)
Danida Fellowship Centre: 5.370.376,00 kr.
01/08/2023 → 31/07/2026

Publikationer

ResNet-Driven Real-Time Energy Management Decision Agent for Hydrogen-PV-Supported Islanded Microgrid

Wu, J., Li, S., Yu, Y., Guan, Y., Zhang, Y., Wei, B. & Chen, Z., 5 maj 2026, (E-pub ahead of print) I: I E E E Transactions on Industrial Electronics. s. 1-12

Hybrid Grid-Following and Grid-Forming Control for Cascaded PVES System in a Decentralized PLL-Less Framework

Ou, J., Han, H., Shi, G., Guan, Y., Matas, J. & Guerrero, J. M., apr. 2026, I: I E E E Transactions on Power Electronics. 41, 4, s. 6063-6078 16 s.

Deep reinforcement learning-based multi-objective energy management system for microgrids under flexible energy market

Wu, J., Li, S., Yu, Y., Guan, Y., Wei, B. & Chen, Z., 1 mar. 2026, I: Applied Energy. 406, 127223.

Assessment of Potential Wind Sites for Power Integration in Ethiopia: A Case Study of Arerti, Sela Dingay, Debre Berhan, Mega, and Gode

Feleke, S., Azene, M., Anteneh, D., Kang, W., Yu, Y., Javidsharifi, M., Mamo, S., Guerrero, J. M., Vasquez, J. C. & Guan, Y., mar. 2026, I: Energies. 19, 6, 1440.

Grid code requirements for the integration of renewable energy sources in Indonesia—a review

Ali, M., Guan, Y., Vasquez, J. C., Guerrero, J. M., Wijaya, F. D. & Perdana, A. P., mar. 2026, I: Renewable Energy Focus. 56, 100782.

Stability-Oriented Adaptive Synchronization Control for Networked Microgrids

Basati, A., Guan, Y., Bazmohammadi, N., Vasquez, J. C. & Guerrero, J. M., 16 jan. 2026, I: IEEE Transactions on Industry Applications.

Fault Ride-Through Capability Enhancement of DFIG-Based Wind Power Plants Using BESS-STATCOM

Ullah, M., Guan, Y., Asim, A., Vasquez, J. C. & Guerrero, J. M., 2026, I: IEEE Access. 14, s. 56026-56044 19 s., 2169-3536.

Dynamic Response of Droop-Controlled Grid-Forming Inverters Under Varying Grid Impedances for Enhanced Stability in Microgrids

Ullah, M., Guan, Y., Barrios, M. A., Vasquez, J. C. & Guerrero, J. M., 27 nov. 2025, I: Applied Sciences. 15, 23, s. 1-22 22 s., 12562.

Harmonic Mitigation Methods Applied to Wind Power Plants

Yu, Y., Guan, Y., Chaudhary, S., Vasquez, J. C. & Guerrero, J. M., 16 nov. 2025, *2025 International Conference on Power Electronics and Control Engineering (ICPECE)*. IEEE (Institute of Electrical and Electronics Engineers), s. 252-256 5 s. 11435761

Reinforcement learning-based Online Energy Management System for Internet of Things-enhanced Residential Microgrids

Wu, J., Li, S., Jiang, B., Guan, Y., Wei, B. & Chen, Z., 7 nov. 2025, SSRN: Social Science Research Network, 12 s.

A review of international grid codes for wind power integration

Yu, Y., Guan, Y., Tarek, B., Leon, M. A. L., Özcan, K. O., Feleke, S., Anteneh, D., Khan, B., Vasquez, J. C. & Guerrero, J. M., okt. 2025, I: Energy Conversion and Management: X. 28, 101278.

Microgrids for energy access in remote and islanded communities under natural disasters – Context of Lombok Island Indonesia

Ali, M., Guan, Y., Vasquez, J. C., Guerrero, J. M., Wijaya, F. D. & Perdana, A. P., sep. 2025, I: *Renewable Energy Focus*. 54, 100705.

A GIS Integrated Framework for Optimal Planning of Ethiopian Onshore Wind Power Plants under Multiple Constraints

Kang, W., Guan, Y., Yu, Y., Tan, S., Feleke, S., Azene, M., Anteneh, D., Strbac, G. & Vasquez, J. C., 8 aug. 2025, *2025 4th International Conference on Power Systems and Electrical Technology (PSET)*. IEEE (Institute of Electrical and Electronics Engineers), s. 678-683 6 s. 11296539

Stability and Passivity Analysis of Single-Voltage-Loop Grid-Forming VSIs with Negative Proportional Gain

Yu, Y., Wu, J., Guan, Y., Feleke, S., Anteneh, D., Mamo, S., Vasquez, J. C. & Guerrero, J. M., 8 aug. 2025, *2025 4th International Conference on Power Systems and Electrical Technology (PSET)*. IEEE (Institute of Electrical and Electronics Engineers), s. 63-67 5 s. 11296577

Dynamic Performance and Power Quality of Large-Scale Wind Power Plants: A Review on Challenges, Evolving Grid Code, and Proposed Solutions

Ullah, M., Guan, Y., Yu, Y., Chaudhary, S. K., Vasquez, J. C. & Guerrero, J. M., 23 jun. 2025, I: *IEEE Open Journal of Power Electronics*. 6, s. 1148-1173 26 s., 11045996.

Assessment of Wind Energy Potential in Ethiopia: A Case Study of the Sela Dingay Wind Farm

Javidsharifi, M., Pourroshanfekr Arabani, H., Feleke Aklilu, S., Anteneh, D., Vasquez, J. C., Guerrero, J. M. & Guan, Y., 11 jun. 2025, *2025 7th Global Power, Energy and Communication Conference (GPECOM)*. IEEE (Institute of Electrical and Electronics Engineers), s. 657-662 6 s. (Global Power, Energy and Communication Conference (GPECOM)).

A Generation Capacity-Based Harmonic Emission Allocation Method for Multi-WPP Grid Integration

Song, J.-X., Su, C.-L., Chaudhary, S., Yu, Y. & Guan, Y., 8 jun. 2025, *2025 World Symposium on Electrical Systems (WSES)*. IEEE (Institute of Electrical and Electronics Engineers), s. 180-185 6 s. 11342162

Solvability Conditions of Power-Flow Equation for DC Traction Systems Considering Maximum Power Consumption and Injection of Electric Vehicles

Ge, X., Guan, Y., Yu, Y., Matas, J. & Guerrero, J. M., maj 2025, I: *IEEE Transactions on Smart Grid*. 16, 5, s. 3976-3988 13 s.

Optimization of thermal characteristics of buried composite phase-change energy storage walls based on nonlinear engineering methods

Diao, R., Feng, H., Chi, C., Michel, M. M., Guan, Y. & Guerrero, J. M., 1 jan. 2025, I: *Nonlinear Engineering: Modeling and Application*. 14, 1, 20250105.

Damping of Low-Frequency Oscillations in Grid-Forming DFIG Employing the Swing Equation

Yu, Y., Guan, Y., Banteywalu, S. M., Vasquez, J. C. & Guerrero, J. M., jan. 2025, I: *Electronics Letters*. 61, 1, e70394.

Active Damping of Grid-Forming Voltage-Source Converter Using Fractional-Order Regulators

Yu, Y., Guan, Y., Kang, W., Wu, J., Vasquez, J. C. & Guerrero, J. M., 2025, I: *IEEE Transactions on Industrial Electronics*. 72, 8, s. 8107-8118 12 s., 10856700.

A Decentralized Self-synchronizing Method for Cascaded Converter System Based on Analysis of the Existence of Equilibrium Points

Shi, G., Ou, J., Wu, Z., Zhang, J., Xu, X., Guan, Y. & Guerrero, J. M., 2025, I: *IEEE Transactions on Power Electronics*. 40, 8, s. 10402-10418 17 s.

A Generic Inertial-Response Preserved Active-Damping Control for Grid-Forming Inverters Emulating Synchronous Machines

Yu, Y., Guan, Y., Kang, W., Vasquez, J. C. & Guerrero, J. M., 2025, I: *IEEE Transactions on Industrial Electronics*. 72, 6, s. 5897-5905 9 s.

Resilience Assessment of Mobile Microgrid Scenario for Supporting Critical Infrastructure Post-Disaster

Ali, M., Vasquez, J. C., Guerrero, J. M., Guan, Y. & Lashab, A., 2025, *International Conference on Energy, Power, Environment, Control and Computing, ICEPECC 2025*. 3 udg. Institution of Engineering and Technology (IET), Bind 2025. s. 358-363 6 s.

Three-Stage Planning of Networked Microgrids for Electrification of Indonesia Islands Considering Earthquake Scenarios

Kang, W., Guan, Y., Yu, Y., Vasquez, J. C., Wijaya, F. D. & Guerrero, J. M., 2025, *Energy Informatics: 4th Energy Informatics Academy Conference, EI.A 2024, Kuta, Bali, Indonesia, October 23–25, 2024, Proceedings, Part II*. Jørgensen, B. N., Ma, Z. G., Wijaya, F. D., Irnawan, R. & Sarjiya, S. (red.). Springer, s. 355-371 17 s. (Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), Bind 15272 LNCS).

Distributed control of virtual energy storage systems for voltage regulation in low voltage distribution networks subjects to varying time delays

Kang, W., Guan, Y., Wang, H., Vasquez, J. C., Agundis-Tinajero, G. D. & Guerrero, J. M., 15 dec. 2024, I: *Applied Energy*. 376, 124295.

Renewable Microgrids for Resilience Enhancement of Different Loads with Diverse Usage Patterns under Natural Disaster

Ali, M., Vasquez, J. C., Guerrero, J. M., Guan, Y., Bazmohammadi, N. & Ali, M., 23 jul. 2024, s. 175. 1 s.

Hierarchical Operation Management System for Mobile Ad-hoc Microgrids in Emergency Events

Guan, Y., Kang, W., Vasquez, J. C., Wijaya, F. D., Arumdati, N., Perdana, A. P., Ma, Z. G. & Guerrero, J. M., 2 jul. 2024, *2024 IEEE 10th International Power Electronics and Motion Control Conference (IPEMC2024-ECCE Asia)*. IEEE (Institute of Electrical and Electronics Engineers), s. 2752-2755 4 s. (International Power Electronics and Motion Control Conference (PEMC)).

A Probabilistic Data Recovery Framework against Load Redistribution Attacks Based on Bayesian Network and Bias Correction Method

Khaleghi, A., Ghazizadeh, M. S., Aghamohammadi, M. R., Guerrero, J. M., Vasquez, J. C. & Guan, Y., 1 jul. 2024, I: *IEEE Transactions on Power Systems*. 39, 4, s. 5806-5817 12 s.

Distributed Event-Triggered Secondary Frequency Regulation by Sharing HESS Power in Microgrids

Kang, W., Guan, Y., Yu, Y., Arbab-Zavar, B., C. Vasquez Q., J. & Guerrero, J. M., 1 jul. 2024, I: *IEEE Transactions on Smart Grid*. 15, 4, s. 3375-3389 15 s.

Joint planning of residential electric vehicle charging station integrated with photovoltaic and energy storage considering demand response and uncertainties

Zhang, M., Yan, Q., Guan, Y., Ni, D. & Agundis Tinajero, G. D., 1 jul. 2024, I: *Energy*. 298, 131370.

Health prognosis via feature optimization and convolutional neural network for lithium-ion batteries

Lin, M., Ke, L., Wei, W., Meng, J., Guan, Y. & Wu, J., jul. 2024, I: *Engineering Applications of Artificial Intelligence*. 133, Part F, 108666.

Analysis of Power Quality Improvement Techniques Applied to Grid-connected Wind Power Plants

Ullah, M., Guan, Y., Vasquez, J. C. & Guerrero, J. M., 26 jun. 2024, *2024 IEEE 15th International Symposium on Power Electronics for Distributed Generation Systems (PEDG)*. IEEE (Institute of Electrical and Electronics Engineers), 6 s. 10667379. (IEEE International Symposium on Power Electronics for Distributed Generation Systems (PEDG)).

An Improved ω - ϕ Droop Control for Cascaded PV-ES System in Islanded Mode

Ou, J., Han, H., Shi, G., Guan, Y., Lashab, A. & Guerrero, J. M., 20 jun. 2024, I: *IEEE Transactions on Sustainable Energy*. 16, 1, s. 1-16 16 s.

Empowering Resilient Hospital Microgrids in Gaza with a Novel Toolbox for Sustainable Energy Solutions

Sugumar, B. K., Musfiq, N., Guan, Y. & Anglani, N., 20 jun. 2024, *Proceedings - 24th IEEE International Conference on Environment and Electrical Engineering and 8th I and CPS Industrial and Commercial Power Systems Europe, IEEEIC/I and CPS Europe 2024*. Leonowicz, Z. & Stracqualursi, E. (red.). IEEE (Institute of Electrical and Electronics Engineers),

Microgrid an Energy Solution for Remote Isolated Communities in Indonesia

Ali, M., Vasquez, J. C., Guerrero, J. M., Guan, Y. & Bazmohammadi, N., 17 maj 2024, *2024 IEEE 10th International Power Electronics and Motion Control Conference (IPEMC2024-ECCE Asia)*. China : IEEE (Institute of Electrical and Electronics Engineers), s. 3799-3804 6 s.

Resilience Oriented Distributed Secondary Control for Networked Microgrids: A Case Study From Indonesia

Basati, A., Bazmohammadi, N., Guan, Y., Vasquez, J. C. & Guerrero, J. M., 28 apr. 2024, *2024 6th Global Power, Energy and Communication Conference (GPECOM 2024)*. IEEE (Institute of Electrical and Electronics Engineers), s. 512-517 6 s. (Global Power, Energy and Communication Conference (GPECOM)).

Microgrid For Remote Isolated Communities in Indonesia

Ali, M., Vasquez, J. C., Guerrero, J. M., Bazmohammadi, N., Guan, Y. & De La Cruz, J., 23 apr. 2024, s. 1. 1 s.

Dynamic Equivalent Modeling for Black-Box Microgrids under Multi-Operating-Point by Using LSTM

Li, Y., Guerrero, J. M., Yang, J., Guan, Y., Ma, G. & Feng, J., 1 mar. 2024, I: *CSEE Journal of Power and Energy Systems*. 10, 2, s. 639-648 10 s.

Dual-Stackelberg game-based trading in community integrated energy system considering uncertain demand response and carbon trading

Zhang, M., Yang, J., Yu, P., Tinajero, G. D. A., Guan, Y., Yan, Q., Zhang, X. & Guo, H., feb. 2024, I: *Sustainable Cities and Society*. 101, 105088.

A Resilient Control Framework for Enhancing Cyber-Security in Microgrids

Tan, S., Xie, P., Guan, Y., Vasquez, J. C., Guerrero, J. M. & Zhang, X., 2024, *Energy Informatics: 4th Energy Informatics Academy Conference, EIA 2024, Kuta, Bali, Indonesia, October 23–25, 2024, Proceedings, Part II*. Jørgensen, B. N., Ma, Z. G., Wijaya, F. D., Irnawan, R. & Sarjiya, S. (red.). Springer, s. 372–378 7 s. (Lecture Notes in Computer Science, Bind LNCS 15272).

Inertial-Response Preserved Active Damping of Grid-Forming Voltage-Source Converters Using Fractional-Order Regulators

Yu, Y., Wu, J., Kang, W., Vasquez, J. C., Guerrero, J. M. & Guan, Y., 2024, *2024 IEEE 10th International Power Electronics and Motion Control Conference, IPEMC 2024 ECCE Asia*. IEEE (Institute of Electrical and Electronics Engineers), 10567460

Multi-Objective Energy Management for Residential Microgrid with Hybrid Electricity-Hydrogen Storage System using Particle Swarm Optimization

Wu, J., Li, S., Chaudhary, S., Vasquez, J. C., Guerrero, J. M. & Guan, Y., 2024, *2024 IEEE 10th International Power Electronics and Motion Control Conference, IPEMC 2024 ECCE Asia*. IEEE (Institute of Electrical and Electronics Engineers), s. 2716-2721 6 s. (International Power Electronics and Motion Control Conference (PEMC)).

Optimizing Hospital Isolated Microgrids in Gaza: Integrating DSS for Sustainable Energy and Resilience: Integrating DSS for Sustainable Energy and Resilience

Sugumar, B. K., Musfiq, N., Guan, Y., Julian, A. L., Oriti, G. & Anglani, N., 2024, *2024 IEEE Energy Conversion Congress and Exposition, ECCE 2024 - Proceedings*. IEEE (Institute of Electrical and Electronics Engineers), s. 817-824 8 s. (IEEE Energy Conversion Congress and Exposition (ECCE)).

Residual Capacity Estimation with Incremental Learning for Lithium-Ion Batteries

Wu, J., Wang, J., Guan, Y. & Lin, M., 2024, *Proceedings of 2024 IEEE 25th China Conference on System Simulation Technology and its Application, CCSSTA 2024*. IEEE (Institute of Electrical and Electronics Engineers), s. 557-564 8 s.

Stochastic Optimal Planning of Networked Microgrids for Indonesia Electrification Considering Various Faults

Kang, W., Guan, Y., Yu, Y., Wei, B., Barrios Flores, M. A., Danang Wijaya, F., Vasquez, J. C. & Guerrero, J. M., 2024, *2024 IEEE 10th International Power Electronics and Motion Control Conference, IPEMC 2024 ECCE Asia*. IEEE (Institute of Electrical and Electronics Engineers), s. 2287-2292 6 s.

Unique supporting Toolbox for Selecting Renewable Energy in Specific Geographical Locations, Prioritizing Resilience and SDGs

Sugumar, B. K., Guan, Y. & Anglani, N., 2024, *IECON 2024 - 50th Annual Conference of the IEEE Industrial Electronics Society, Proceedings*. IEEE (Institute of Electrical and Electronics Engineers), 10905546. (IECON Proceedings (Industrial Electronics Conference)).

Parallel Prediction Method of Knowledge Proficiency Based on Bloom's Cognitive Theory

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Long-Term Renewable Energy Planning in the Indonesian Context: A Lombok Island Study Case

Rajabnia, M., Ali, M., Vasquez, J. C., Guan, Y., Guerrero, J. M., Khan, B., Wijaya, F. D. & Perdana, A. P., 30 nov. 2023, *I: Applied Sciences*. 18 s.

Planning of Community Microgrid for Improving the Resilience of System by Using HOMER Grid

Ali, M., Rajabnia, M., Vasquez, J. C., Guerrero, J. M., Guan, Y. & Abusorrah, A. M., 2 okt. 2023, *2023 25th European Conference on Power Electronics and Applications, EPE 2023 ECCE Europe*. Aalborg, Denmark: IEEE (Institute of Electrical and Electronics Engineers), s. 1-6 6 s. 10264450

Distributed Fixed-Time Energy Management for Port Microgrid Considering Transmissive Efficiency

Ban, Z., Teng, F., Zhang, H., Li, S., Xiao, G. & Guan, Y., sep. 2023, *I: Mathematics*. 11, 17, 3674.

A Decentralized Secondary Frequency Restoration Control with Local Current for Island Cascaded-type Microgrids

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Quasi-SoC Balancing Control for Networked Ad-hoc Microgrids Against Natural Disasters

Guan, Y., Kang, W., Vasquez, J. C., Wijaya, F. D., Arumdati, N., Priyo Perdana, A. & Guerrero, J. M., 11 jun. 2023, *PEDG 2023 - 2023 IEEE 14th International Symposium on Power Electronics for Distributed Generation Systems*. IEEE (Institute of Electrical and Electronics Engineers), s. 1015-1020 6 s. 10215137. (IEEE International Symposium on Power Electronics for Distributed Generation Systems (PEDG)).

Fractional Order Virtual Synchronous Generator

Yu, Y., Guan, Y., Kang, W., Chaudhary, S. K., Vasquez, J. C. & Guerrero, J. M., 1 jun. 2023, *I: IEEE Transactions on Power Electronics* . 38, 6, s. 6874-6879 6 s.

Energy Management for a Port Integrated Energy System Based on Distributed Dual Decomposition Mixed Integer Linear Programming

Teng, F., Zhang, Q., Xiao, G., Ban, Z., Liang, Y. & Guan, Y., jun. 2023, *I: Journal of Marine Science and Engineering*. 11, 6, 1137.

Model-Based Reinforcement Learning Method for Microgrid Optimization Scheduling

Yao, J., Xu, J., Zhang, N. & Guan, Y., jun. 2023, *I: Sustainability (Switzerland)*. 15, 12, 9235.

Ad-Hoc Microgrids Planning for Rural Communities under Natural Disasters

Ali, M., Vasquez, J. C., Guerrero, J. M., Guan, Y., Cruz, J. D. L. & Aslam, M. J., 9 mar. 2023, *2023 International Conference on Energy, Power, Environment, Control, and Computing (ICEPECC)*. IEEE (Institute of Electrical and Electronics Engineers), s. 1-5 5 s. 10209509

A Comparison of Grid-Connected Local Hospital Loads with Typical Backup Systems and Renewable Energy System Based Ad Hoc Microgrids for Enhancing the Resilience of the System

Ali, M., Vasquez, J. C., Guerrero, J. M., Guan, Y., Golestan, S., Cruz, J. D. L., Koondhar, M. A. & Khan, B., 15 feb. 2023, *I: Energies*. 16, 4, 1918.

Dynamic Frequency Performance Analysis and Improvement for Parallel VSG Systems Considering Virtual Inertia and Damping Coefficient

Chen, S., Sun, Y., Han, H., Shi, G., Guan, Y. & Guerrero, J. M., feb. 2023, I: IEEE Journal of Emerging and Selected Topics in Power Electronics. 11, 1, s. 478-489 12 s.

Ad-Hoc Microgrids Planning for Rural Communities Under Natural Disasters

Ali, M., Vasquez, J. C., Guerrero, J. M., Guan, Y., De La Cruz, J. & Yalman, Y., 9 jan. 2023. 1 s.

Conference Fireside Chat: "A Comparison of Typical Backup Systems and Ad Hoc Microgrids Powered by Renewable Energy for Improving the Resilience of Local Hospital Loads"

Ali, M., Vasquez, J. C., Guerrero, J. M., Guan, Y., De La Cruz, J. & Yalman, Y., 9 jan. 2023, 6 s.

A Defensive Mechanism Against Load Redistribution Attacks with Sequential Outage Potential Using Encrypted PMUs

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