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Publications

ALL ARTICLE IN JOURNAL (15) CONFERENCE (4) PEER REVIEWED (19)
2018

Review of FACTS technologies and applications for power quality in smart grids with renewable energy systems

Gandoman, Foad H. ; Ahmadi, Abdollah ; Sharaf, Adel M. ; Siano, Pierluigi ; Pou, Josep ; Hredzak, Branislav ; [Agelidis, Vassilios](#)
in journal: Renewable and Sustainable Energy Reviews (ISSN: 1364-0321) (DOI: <http://dx.doi.org/10.1016/j.rser.2017.09.062>), vol: 82, pages: 502-514, 2018
Type: Journal article (Peer reviewed)
Status: Published | Year: 2018 | DOI: <http://dx.doi.org/10.1016/j.rser.2017.09.062>

Single-point reactive power control method on voltage rise mitigation in residential networks with high PV penetration

Hasheminamin, Maryam ; [Agelidis, Vassilios](#) ; Ahmadi, Abdollah ; Siano, Pierluigi ; Teodorescu, Remus
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Interactions Between Indirect DC-Voltage Estimation and Circulating Current Controllers of MMC-Based HVDC Transmission Systems

Wickramasinghe, Harith R. ; Konstantinou, Georgios ; Pou, Josep ; [Agelidis, Vassilios](#)
in journal: I E E Transactions on Power Systems (ISSN: 0885-8950) (DOI: <http://dx.doi.org/10.1109/TPWRS.2017.2709789>), vol: 33, issue: 1, pages: 829-838, 2018
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Reliability Worth Analysis of Distribution Systems Using Cascade Correlation Neural Networks

Heidari, Alireza ; [Agelidis, Vassilios](#) ; Pou, Josep ; Aghaei, Jamshid ; Ghias, Amer M. Y. M.
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Single-Phase Boost Inverter-Based Electric Vehicle Charger With Integrated Vehicle to Grid Reactive Power Compensation

Wickramasinghe Abeywardana, Damith Buddika ; Acuna, Pablo ; Hredzak, Branislav ; Aguilera, Ricardo P. ; [Agelidis, Vassilios](#)

in journal: I E E Transactions on Power Electronics (ISSN: 0885-8993) (DOI: <http://dx.doi.org/10.1109/TPEL.2017.2700944>), vol: 33, issue: 4, pages: 3462-3471, 2018

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Model Predictive Control for Distributed Microgrid Battery Energy Storage Systems

Morstyn, Thomas ; Hredzak, Branislav ; Aguilera, Ricardo P. ; [Agelidis, Vassilios](#)

in journal: I E E Transactions on Control Systems Technology (ISSN: 1063-6536) (DOI: <http://dx.doi.org/10.1109/TCST.2017.2699159>), vol: 26, issue: 3, pages: 1107 - 1114, 2018

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Decentralised control method for DC microgrids with improved current sharing accuracy

Yang, Jie ; Jin, Xinmin ; Wu, Xuezhi ; Acuna, Pablo ; Aguilera, Ricardo P. ; Morstyn, Thomas ; [Agelidis, Vassilios](#)

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Windowed SHE-PWM of Interleaved Four-Quadrant Converters for Resonance Suppression in Traction Power Supply Systems

Song, Kejian ; Konstantinou, Georgios ; Mingli, Wu ; Acuna, Pablo ; Aguilera, Ricardo P. ; [Agelidis, Vassilios](#)

in journal: I E E Transactions on Power Electronics (ISSN: 0885-8993) (DOI: <http://dx.doi.org/10.1109/TPEL.2016.2636882>), vol: 32, issue: 10, pages: 7870-7881, 2017

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Capacitor Voltages Measurement and Balancing in Flying Capacitor Multilevel Converters Utilizing a Single Voltage Sensor

Farivar, Glen ; Ghias, Amer M. Y. M. ; Hredzak, Branislav ; Pou, Josep ; [Agelidis, Vassilios](#)

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High performance control strategy for single-phase three-level neutral-point-clamped traction four-quadrant converters

Kejian, Song ; Konstantinou, Georgios ; Jing, Li ; Mingli, Wu ; [Agelidis, Vassilios](#)

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