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Citations (Scopus):

Supervised MSc Theses

#	Thesis title	By	Date
1	Optimal Planning of Energy Storage in microgrid	Mohammad Amini & Amir Khorsandi	April 2021

Journal Papers

Portal Records



- 1 Mohammad Amini, Amir Khorsandi, Behrooz Vahidi, S.Hossein Hosseinian, Ali Malakmahmoudi, "Optimal sizing of battery energy storage in a microgrid considering capacity degradation and replacement year", *ELECTRIC POWER SYSTEMS RESEARCH*, March 2021 Vol. 195, Num. 0, Page 0-0, March 2021,
- 2 Mohammad Ali Dashtaki, Hamed Nafisi, Amir Khorsandi, Mojgan Hojabri, Edris Pouresmaeil, "Dual Two-Level Voltage Source Inverter Virtual Inertia Emulation: A Comparative Study", *Energies*, February 2021 Vol. 125, Num. 3, Page 1-21, February 2021,
- 3 Nima Mahdian, Amir Khorsandi, Hamid Reza Baghaee, Nasser Sadati, Shahriar Shirvani Moghaddam, Josep M Guerrero, "Voltage and Frequency Consensusability of Autonomous Microgrids Over Fading Channels", *IEEE TRANSACTIONS ON ENERGY CONVERSION*, June 2020 Vol. 0, Num. 0, Page 0-0, June 2020,
- 4 Farid Mohammadi, Mohammad Farhadi-Kangarlu, Hassan Rastegar, Amir Khorsandi, Mohammad Pichan, "P-type non-isolated boost DC-DC converter with high voltage gain and extensibility for DC microgrid applications", *INTERNATIONAL JOURNAL OF CIRCUIT THEORY AND APPLICATIONS*, August 2019 Vol. 47, Num. 11, Page 1812-1836, August 2019,








Conference Papers

Portal Records

- 1 Amirhossein Solat, Amir Khorsandi, Alireza Solat, Gevork B. Gharehpetian, S.Hossein Hosseinian, "Economic and Environmental Analysis of DER Integration in Smart Homes with Development of RTP and DLC ", 28th Iranian Conference on Electrical Engineering, ICEE 2020, August 2020
- 2 Mohammad Ali Dashtaki, Hamed Nafisi, Edris Pouresmaeil, Amir Khorsandi, "Virtual Inertia Implementation in Dual Two-Level Voltage Source Inverters ", 11th International Power Electronics, Drive Systems and Technologies Conference (PEDSTC 2020), February 2020
- 3 Matin Vatani, Saman Ahmadi, Mojtaba Agha-Mirsalim, Amir Khorsandi, "Performance Analysis of a Novel Linear Switched Reluctance Motor with Transverse-Flux and Four-sided Structure ", Power Electronics, Drive Systems and Technologies Conference, February 2020
- 4 Behnam Mohamadian Mosamam, Mojtaba Agha-Mirsalim, Amir Khorsandi, "Modelling, Analysis, and SS Compensation of the Tripolar Structure of Wireless Power Transfer (WPT) System for EV Applications ", 11th Power Electronics, Drive Systems and Technologies Conference, February 2020
- 5 Shokoufeh Valadkhani, Mojtaba Agha-Mirsalim, Amir Khorsandi, "DC/DC Full-Bridge Converter for Cathodic Protection Application with Phase-shift Control Method and No Auxiliary Circuit ", Power Electronics, Drive Systems and technologies Conference, February 2020
- 6 Mohammad Amin Jalali Kondelaji, Mehdi Zarei Tazehkand, Ehsan Farmahini Farahani, Mojtaba Agha-Mirsalim, Amir Khorsandi, "A Preliminary Study on Flux-Boosted Enhanced-Torque Switched Reluctance Motors: Teethed-Pole and PM-Inserted Structures ", (Power Electronics, Drive Systems, and Technologies Conference (PEDSTC, February 2020
- 7 Hesamedin Abdoli, Amir Khorsandi, Bahman Eskandari, Javad Shokrollahi Moghani, "A New Reduced Switch Multilevel Inverter for PV Applications ", The Power Electronics, Drive Systems, and Technologies Conference (PEDSTC), February 2020
- 8 Mohammadreza Saidabadi, Mehrdad Abedi, Hamed Nafisi, Amir Khorsandi, "Small signal stability improvement via coordination of PSS's and SOFC power conditioner by PSO algorithm ", 34th International Power System Conference, December 2019
- 9 Arian Shah Kamrani, Hossein Askarian Abyaneh, Hamed Nafisi, Mousa Marzband, Amir Khorsandi, "An Innovative Method For Route Mapping of Battery Electric Vehicles ", Smart Grid Conference 2019 (SGC2019), December 2019
- 10 Farid Mohammadi, Hassan Rastegar, Amir Khorsandi, Mohammad Farhadi-Kangarlu, Mohammad Pichan, "Design of a High Efficiency and High Voltage Gain Extendable Non-Isolated Boost DC-DC Converter ", (The International Power Electronics, Drive Systems and Technologies Conference (PEDSTC2019, February 2019
- 11 Mohammad Mirzaie Banafsh Tappeh, Javad Shokrollahi Moghani, Amir Khorsandi, "Active and Reactive Power Control Strategy of the Modular Multilevel Converter for Grid-Connected Large Scale Photovoltaic Conversion Plants ", 10th Annual International Power Electronics, Drive Systems And Technologies Conference (PEDSTC 2019), February 2019
- 12 Behnam Mohamadian Mosamam, Navid Rasekh, Mojtaba Agha-Mirsalim, Amir Khorsandi, "Electromagnetic Analysis for DD Pad Magnetic structure of a Wireless Power Transfer (WPT) for Electrical Vehicles ", 2018 Smart Grid Conference (SGC), November 2018

Taught Courses

#	Course title	Description	Headlines	Date
1	Electric Machine (III)	To acquaint students with the theory and principles of Synchronous Motors and Generators and Three-phase Transformers		Spring 2022
2	Electrical Machines (I)	To acquaint students with the theory and principles of electromagnetism, electromechanical energy conversion and DC Machines		Spring 2022

3	Optimization in Electrical Power	Application of Optimization Methods in Power systems		Spring 2022
4	Novel Control Methods of Power Electronic Converters	Modeling and control of dc-dc and dc-ac converters		Fall 2021
5	Basic Elect. Eng. (II)	The aim of this course is to familiar students with principles of Electric Machines		Fall 2021
6	Electrical Machines (I)	To acquaint students with the theory and principles of electromagnetism, electromechanical energy conversion and DC Machines		Fall 2021
7	Optimization in Electrical Power	Application of Optimization Methods in Power systems		Spring 2021
8	Electrical Machines (I)	To acquaint students with the theory and principles of electromagnetism, electromechanical energy conversion and DC Machines		Spring 2021
9	Electric Machine (III)	To acquaint students with the theory and principles of Synchronous Motors and Generators and Three-phase Transformers		Spring 2021