

Khairy Fathy Abd El-Sayed Sayed

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Citations
h-index

Scopus
193
7

Google Scholar
337
10

<https://www.scopus.com/authid/detail.url?authorId=24780869400>

<https://scholar.google.com/citations?user=gD0R0hQAAAAJ&hl=en>

<http://orcid.org/0000-0001-8871-5358>

ResearcherID: E-6498-2015

EDUCATION:

Post Doctor	Control and Protection of Resilient Microgrid University of Ontario Institute of Technology Sept. 2016, Canada
PHD	PHD in Electrical Engineering, April 2013 Assiut University, Egypt
PHD Thesis	Analysis, design and control of stand-alone and grid connected PV systems
M.Sc.	M.Sc in Electrical Engineering, August 2007 Kyungnam University, South Korea
M.Sc. Thesis	A Study on Soft Switching PWM DC-DC Power Conditioning Converters for Energy Conversion Applications.
B.Sc.	B.Sc. in Electrical Engineering, Power and Machines Section, Assuit University, June 1997
B.Sc. Project	Voltage Flicker due to Arc Furnaces Load and Welding Machines Problems and Solutions

PROFILE

Name	: Khairy Fathy Abd El-Sayed Sayed
Date of birth	: 24/6/1974
Nationality	: Egyptian.
Marital Status	: Married
Military Service	: Finished
Home Address	: Egypt, Assiut, 13 Geais St. from Riad St.
Email Address	: khairy.f@gmail.com , khairy_fathy@yahoo.ca
Website	: http://works.bepress.com/khairy_sayed/

RESEARCH INTERESTS

- ▶ Renewable Energy, Solar PV, Wind Energy , Fuel cell, Grid-connected power conditioner for renewable energy sources.
- ▶ Soft switching DC-DC power converter topologies, high frequency inverters and power factor correction, Grid-connected Inverters.
- ▶ Electric Vehicle and Smart grid
- ▶ Smart Energy Grids and Microgrids Planning, Protection, and Control
- ▶ Smart Green Buildings

FUNDED RESEARCH PROJECTS

I participated in the following Research Projects

- Design of power conditioner systems for Fuel Cell implemented in Kyungnam University
- Power conditioner for Solar Photovoltaic interface (Daihen Corporation, Japan).
- Soft Switching DC-DC power converter for Arc welding (Daihen Corporation, Japan)
- Fast battery charger implemented in Korea Electro-technology Research Institute (KERI).
- High voltage magnetron power supply implemented in Korea Electro-technology Research Institute (KERI).
- A Stand-alone residential PV system (STDF Egypt, Project ID: ID1481, Oct. 1st, 2010 to Sep. 30th, 2011).
- A hybrid Solar-Wind Generation Based Micro-Grid for the Irrigation System of A Major Land Reclamation Project in Egypt-Case Study of the Toshka Project (STDF Egypt, USAID, Project Start Date: October 1st, 2010 - End Date: November 30th, 2013).

EXPERIENCE

Current job

Assistant Professor, Department of Electrical Engineering, Sohag University, Egypt

Previous Job (industrial experience)

Electrical Engineer in Middle Egypt Electricity Distribution Company (August 1999 to September 2008)

- Working in DMS (SCADA) Project, Distribution Management System (DMS) operation Engineer, Protection, Maintenance, DTS dispatcher training simulator and switching management systems.
- Installation of Digital relays, Digital Meters, Remote Terminal Unit RTU
- Installation of SCADA system project (Installation works in Substations, Distribution points and Distribution Transformers, control room and UPS systems)

COURSES TAUGHT

- Electrical Machines
 - Power Electronics
 - Power system analysis
 - Power system protection
 - Electrical Circuits
 - Electrical Measurements
 - Electromagnetic fields
 - Energy conversion and utilization
 - Energy Economics
-

- Electrical Installation & Drawing.
- Smart Energy Grids and Microgrids Planning, Protection, and Control

GRADUATION PROJECTS

- Multi-functions Surveying RC Remote Controlled Unmanned Aerial Vehicle UAV
- Smart Grid Communications using Wireless Communications
- Vehicle Tracking Using GSM System
- RFID Smartcard based Access Control System
- PV powered Irrigation system using wireless communications

AWARDS AND HONORS

- 1- Best Student Paper Award at the 57 annual conference of the International Appliances Technical Conference IATC2006 held at the Crowne Plaza Chicago, USA, March 27-29, 2006 for the paper entitled " Dual Mode Pulse Modulated Soft-Switching series Load Resonant Inverter with active Edge Resonant Snubber for High Frequency Induction Heating Appliances .
- 2- Sohag University Encouragement Awards in the field of engineering science 2016-2017

PATENT

Smart DC-DC Converter (SDDC) for DC Energy Harvesting, US patent, under review, submitted 18-APR-2016, Application Number 62323999.

INVITED TALK

Recent Trends in Power Electronics, Present Status and Future Prospects.

University of Ontario Institute of Technology, Faculty of Energy Systems and Nuclear Science, Friday April 8th, 2016.

REVIEWER FOR INTERNATIONAL JOURNALS

- 1) Reviewed papers submitted to the Journal of IET Electric Power Applications, the Journal of IET Renewable Power Generation, the IEEE Transactions on Industry Applications, the IEEE Transactions on Power Electronics, IEEE Transactions on Industrial Electronics the Journal of Electric Power Components and Systems, Journal of Power Electronics, International Transactions on Electrical Energy Systems.
- 2) Reviewed several papers submitted to IEEE International Conferences.

COMMUNICATION AND PRESENTATIONS SKILLS

International conferences Speaking

Presentation of my papers in international conferences and in Domestic conferences (in Korea)

I have presented my papers in the following international conferences

- 1- PEDS 2005 (International Conference on Power Electronics and Drive Systems), Kuala Lumpur, Malaysia.

- 2- ICIT 2005 (International Conference on Industrial Technology), Hong Kong.
- 3- PEMD 2006 (Power Electronics and Machine Drive Conference), Dublin, Ireland.
- 4- IPEMC 2006 (International Power Electronics and Motion Control Conference), Shanghai, China.
- 5- ICEMS 2006 (International Conference of Electrical Machines and Systems), Nagasaki, Japan.
- 6- PESC 2006 (Power Electronics Specialists Conference), Korea.
- 7- ICEE 2006 (International conference of Electrical Engineering), Korea.
- 8- Power Electronics Technology 2006, Long Beach, California, USA.
- 9- IEE Japan Annual Conference 2007, Toyama, Japan.
- 10- IEEE Middle East Power System Conference 2008, Aswan, Egypt.
- 11- IEEE ICEMS 2009, Tokyo, Japan
- 12- IEEE ICPE 2011, Korea.
- 13- MEPCON 2012, Egypt
- 14- INTELEC 2013, Germany
- 15- IPEC 2014 Hiroshima, Japan

COMPUTER SKILLS:

- Programming Language: Fortran, Visual Basic, C++ Programming languages
- Matlab, Simulink, PSIM6.1, MathCAD, PSpice, Orcad, Simplorer, Maxwell 2D
- AutoCAD, Designer
- Operating Systems: Unix operating system (User and Administration) and Windows NT.
- SCADA/DMS software
- Microsoft office (Word, Excel, Power Point, Access) and Microsoft project.
- PLC programming, PIC and DSP microcontroller programming

PROFESSIONAL AFFILIATIONS

IEEE member

KIEE member (Korean Institute of Electrical Engineers)

KIPE member (Korean Institute of Power Electronics)

PUBLISHED BOOKS

1- Smart Energy Grid Book – Chapter 18, " SCADA and Smart Energy Grid Control Automation", Elsevier 2016.

2- Transformers and Magnetic Circuits (in Arabic).

المحولات والدوائر المغناطيسية - رقم الإيداع ١٩٧٢٠ / ٢٠١١ الترقيم الدولي 977-440-116-8

3- Basics of Power Systems (in Arabic).

أساسيات نظم القوى الكهربائية - رقم الإيداع ٢٠١٠/٢٢٠٣ - الترقيم الدولي 977-440-105-3

4- Building Energy Management Systems (BEMS), June 2018

DOI: 10.1002/9781119422099.ch2

In book: Energy Conservation in Residential, Commercial, and Industrial Facilities

5- Book Chapter, Microinverter Systems For Energy Conservation In Infrastructures, in

book: Energy Conservation in Residential, Commercial, and Industrial Facilities, June

2018 , DOI: 10.1002/9781119422099.ch5

SUPERVISION OF MSc. STUDENTS

MSc Students – finished:

1. Analysis of a Multifunction DSP-based-Numerical Relay for Distribution Systems with Distributed Generators, Mohsen Badr, Faculty of Engineering, Assiut University, 2015.
2. Control Techniques For DC-DC Converters With Improved Performance, Hedra Mahfouz, Faculty of Industrial Education, Sohag University, 2015.
3. Harmonic Measurements And Analysis of Welding Machines, Wesam Arfa, Faculty of Industrial Education, Suez Canal University, 2015.
4. Optimal Energy Storage system for Microgrid in the Presence of Renewables, Amal Mohamed Abd Elhamed, Faculty of Industrial Education, Sohag University, 2016.
5. Design and Implementation of Fly-back Converter for Batteries Charging Applications, Rasha Sayed, Faculty of Industrial Education, Sohag University, 2015.
6. Load Frequency Control and Power System Stabilizer, Hosam Hassan Ali, Faculty of Industrial Education, Sohag University, 2017.
7. Performance Improvement of Stand-alone Hybrid PV / Storage power System, Alaa Abd-Elsamee, Faculty of Industrial Education, Sohag University, 2017.

Ongoing Msc.

1. Control for grid connected Hybrid photovoltaic and Wind Energy generation system , Mohamed Mourad, Faculty of Engineering, Assiut University.
2. Intelligent Fault Location Techniques in Electrical Power Networks, Mohamed Bahy, Faculty of Engineering, Assiut University.
3. Energy Managment and Control of Flywheel Energy Storage systems in Microgrid, Ismail Hassan, Aswan University.
4. Monitoring and Rationalizing Energy Consumption of Home Electric Appliances, Allam Aldeep, Faculty of Industrial Education, Sohag University.
5. Harmonics control and performance improvement of a grid connected photovoltaic system, Ikhlas Mohamed, Faculty of Industrial Education, Sohag University.
6. Protection of distribution transformer in presence of Renewable Energy Sources, Amal Edwar, Faculty of Industrial Education, Sohag University.

RESEARCH ACHIEVEMENT LIST JOURNAL PAPERS

No.	Paper title	Authors names	Journal
1	Design and Implementation of a Multifunction DSP-based-Numerical Relay	Mazen Abdel-Salam, Rashad Kamel, Khairy Sayed, Mohsen Khalaf	Electric Power Systems Research, 143 (2017) 32–43
2	Dynamic performance of wind turbine conversion system using PMSG-based wind simulator	Khairy Sayed and Mazen Abdel-Salam	Electrical Engineering Journal, (2017) 99:431–439
3	A High Efficiency DC-DC Converter with LC Resonant in the Load-Side of HFT and Voltage Doubler for Solar PV Systems	Khairy Sayed	International Journal of Power Electronics 8 (3), 232-248, 2017.
4	Analysis and design for interleaved ZCS buck DC-DC converter with low switching losses	Khairy Sayed, Hedra Mahfouz and Emad Elzohry	International Journal of Power Electronics 8 (3), 210-231, 2017..
5	Supervisory Control of a Resilient DC Microgrid for	Khairy Sayed and Hossam	Int. J. Process system

	Commercial Buildings	A. Gabbar	Engineering, Vol. 4, No. 2-3, pp. 99-118, 2017.
6	Design, Implementation and Operation of a Standalone Residential Photovoltaic System	Mazen Abdel-Salam, Khairy Sayed , Adel Ahmed, Mahmoud Amery, Mohamed Swify	<i>Int. J. Power and Energy Conversion</i> , Vol. 8, No. 1, pp. 47-67, 2017
7	Electric Vehicle to Power Grid Integration Using Three-Phase Three-Level AC/DC Converter and PI-Fuzzy Controller	Khairy Sayed and Hossam A. Gabbar	Energies, 2016, 9(7), 532
8	Performance of Induction Heating Power Supply Using Dual Control Mode PWM-PDM High Frequency Inverter	Khairy Sayed , and Mutsuo Nakaoka	Journal of Electrical Power Components and Systems, Vol. 43(2):1-10, 2015.
9	A ripple current minimisation based single phase PWM inverter	Khairy Sayed, Mazen Abdel-salam, Adel Ahmed, Mahmoud Ahmed	International Journal of Power Electronics, Vol. 6, No. 3, pp. 201-223, 2014
10	A New High Voltage Gain Dual Boost DC-DC Converter for PV Power Systems	Khairy Sayed, Mazen Abdel-salam, Adel Ahmed, Mahmoud Ahmed	Journal of Electrical Power Components and Systems, Vol. 40, No. 7, pp: 711-728, 2012.
11	A New High Frequency Linked Half-Bridge Soft-Switching PWM DC-DC Converter with Input DC Rail Side Active Edge Resonant Snubbers	Khairy Sayed, Keiki Morimoto, S. K. Kwon and Mutsuo Nakaoka	IET Power Electron., Vol. 3, No. 5, pp. 774-783, 2010.
12	A Novel Prototype of Duty Cycle Controlled Soft-Switching Half-Bridge DC-DC Converter with Input DC Rail Active Quasi Resonant Snubbers Assisted by High Frequency Planar Transformer,	Khairy Fathy, Keiki Morimoto, Soon Kurl Kwon and Mutsuo Nakaoka	KIEE Journal of Electrical Engineering & Technology Vol. 2, No. 1, pp.89 ~97, March 2007
13	A Novel Quasi-Resonant Snubber-Assisted ZCS-PWM DC-DC Converter with High Frequency Link	Khairy Fathy, Soon Kurl Kwon, Mutsuo Nakaoka	KIPE JPE, Journal of Power Electronics, Vol. 7, No. 2, April 2007, pp: 124-131
14	DC Rail Side Series Switch and Parallel Capacitor Snubber-Assisted Edge Resonant Soft-Switching PWM DC-DC Converter with High-Frequency Transformer Link	Keiki Morimoto, Khairy Fathy, Hiroyuki Ogiwara, Hyun Woo Lee and Mutsuo Nakaoka	KIPE JPE, Journal of Power Electronics, Vol. 7, No. 2, April 2007
15	A Novel Type High Frequency Transformer Linked Soft-Switching PWM DC-DC converter with Input DC Busline High and low Side Active Edge Resonant Snubbers	Khairy Fathy, Sadahiko Ohgaki, Keiki Morimoto, Hyun Woo Lee, Mutsuo Nakaoka	Bulletin of College of Industrial Technology, Hyogo, Japan, March 2006, pp: 59-66.
16	Advanced Induction Heating Equipment Using Dual Mode PWM-PDM Controlled Series Load Resonant Tank High Frequency Inverters	Khairy Fathy, Soon Kurl Kwon and Mutsuo Nakaoka	KIPE JPE, Journal of Power Electronics, Vol. 7, No. 3, July 2007, pp 246-256
17	Boost-Half Bridge Single Power Stage PWM DC-DC Converters for PEM-Fuel Cell Stacks	Soon Kurl Kwon Khairy F. A. Sayed	The Journal of Mechanical Science and Technology, vol. 8, no. 3, pp.239-247, 2008

INTERNATIONAL CONFERENCES

No.	Paper Title	Authors Names	Conference
1	32V-300A/60kHz Edge Resonant Soft-Switching PWM DC/DC Converter with DC Rail Series Switch-Parallel Capacitor Snubber Assisted by High-Frequency Transformer Parasitic Components	Tetsuya Etoh, Tarek Ahmed, Eiji Hiraki, Keiki Morimoto, Khairy Fathy, Nabil A. Ahmed Hyun Woo Lee, Mutsuo Nakaoka,	Proceedings of The 31st Annual Conference of the IEEE Industrial Electronics Society IECON05, Nov. 2005, pp: 1159-1165.
2	Switched Capacitor Snubber Assisted Zero Current Soft Switching PWM High Frequency Inverter with Lossless Inductive Snubbers	Manal H. Hashem, Nabil A. Ahmed, Eiji Hiraki, Khairy Fathy, Hyun Woo Lee and Mutsuo Nakaoka	Proceeding of The Sixth International Conference on Power Electronics and Drive Systems IEEE-PEDS 2005, pp: 198-204.
3	PWM/PDM Dual Mode Controlled Soft Switching Multi Resonant High-Frequency Inverter	Khairy Fathy, Yuta Miura, Kenji Yasui, Izuo Hirota, Hideki Omori, Hyun Woo Lee, and Mutsuo Nakaoka	Proceeding of IEEE International Conference of Industrial Technology IEEE-ICIT 2005, pp: 1450-1455.

4	A Novel Soft-Switching PWM HB DC-DC Converter with DC Rail High and Low Side Active Edge Resonant Snubbers Assisted by High Frequency Transformer Parasitic Components	Nabil A. Ahmed , Khairy Fathy, Keiki Morimoto, Eiji Hiraki, Hyun Woo Lee and Mutsuo Nakaoka	The Proceeding of The Institute of Electronics, Information and Communication Engineers Technical Report of IEICE 2006.
5	Dual Mode Pulse Modulated Soft-Switching Series Load Resonant Inverter with Active Edge Resonant Snubber for High Frequency Induction Heating Appliances	Khairy Fathy, Nabil A. Ahmed, Ki Young Suh, Hyun Woo Lee, Mutsuo Nakaoka	The Proceeding of International Appliances Technical Conference 2006
6	A Novel Soft-Switching PWM DC/DC Converter with DC Rail Series Switch-Parallel Capacitor Edge Resonant Snubber Assisted by High-Frequency Transformer Components	Khairy Fathy, Keiki Morimoto, Nabil A. Ahmed, Hyun Woo Lee, and Mutsuo Nakaoka	The Proceeding of IEE-PEMD Conference, Dublin, Ireland, April 2006, pp:242-246.
7	A Novel Switched Capacitor Lossless Inductors Quasi-Resonant Snubber Assisted ZCS PWM High Frequency Series Load Resonant Inverter	Khairy Fathy, Soon Kurl Kwon, Ki Young Suh, Hyun Woo Lee, Eiji Hiraki and Mutsuo Nakaoka	The Proceeding of IEE-PEMD Conference, Dublin, Ireland 4-6 April 2006, pp:141-145.
8	A New Soft-Switching PWM Half-Bridge DC-DC Converter with High and Low Side DC Rail Active Edge Resonant Snubbers	Khairy Fathy, Keiki Morimoto, Toshimitsu Doi, Kang Hoon Koh, Hyun Woo Lee, Mutsuo Nakaoka	The proceeding of 37th IEEE Power Electronics Specialists Conference , June 2006, Jeju, Korea
9	A Novel Type Soft-Switching PWM Half-Bridge DC-DC Converter With Two Active Edge Resonant Snubber Arms Assisted by High Frequency Planner Transformer	Khairy Fathy, Soon Kurl Kwon, Hyun Woo Lee, Mutsuo Nakaoka	The proceeding of International Conference on Electrical Engineering ICEE06, July 9-13, 2006, Yong Pyong Resort, Korea.
10	An Asymmetrical Switched Capacitor and Lossless Inductor Quasi-Resonant Snubber-Assisted ZCS-PWM DC-DC Converter with High frequency Link	Khairy Fathy, Keiki Morimoto, Toshimitsu Doi ,Hyun Woo Lee and Mutsuo Nakaoka	The CES/IEEE International Power Electronics and Motion Control Conference, August, 2006 Shanghai, China, pp 1302-1306
11	A Novel Soft-Switching PWM Full-Bridge DC/DC Converter with DC Busline Series Switch-Parallel Capacitor Edge Resonant Snubber Assisted by High-Frequency Transformer Leakage Inductor	Khairy Fathy, Toshimitsu Doi, Keiki Morimoto, Hyun Woo Lee and Mutsuo Nakaoka	CES/IEEE International Power Electronics and Motion Control Conference, August, 2006 Shanghai, China, vol. 1, pp 356-360
12	A Switched-Capacitor Lossless Inductor ZCS Snubber-Assisted Series Load Resonant High Frequency Inverter with Dual Mode Pulse Modulation Scheme	Khairy Fathy, Takaaki Okude, Hideki Omori, Hyun Woo Lee and Mutsuo Nakaoka	CES/IEEE International Power Electronics and Motion Control Conference, Aug., 2006 Shanghai, China, vol. 2, pp 1363-1367
13	A Divided Voltage Half-Bridge High Frequency Soft-Switching PWM DC-DC Converter with High and Low Side DC Rail Active Edge Resonant Snubbers	Khairy Fathy, Keiki Morimoto, Toshimitsu Doi, Hiroyuki Ogiwara, Hyun Woo Lee and Mutsuo Nakaoka	CES/IEEE International Power Electronics and Motion Control Conf., August, 2006 Shanghai, China, vol. 2, pp1307-1311.
14	Dual Duty Cycle Controlled Voltage Source Soft-Switching High Frequency Inverter with AC Load Side Reverse Blocking Switched Resonant Capacitor	Khairy Fathy, Ju-Sung Kang, Hiroyuki Ogiwara, Bin Eiuo, H. Omori· H. W. Lee and Mutsuo Nakaoka	CES/IEEE International Power Electronics and Motion Control Conference, Aug., 2006 Shanghai, China, vol. 2, pp 1358-1362.
15	Boost-Half Bridge Single Power Stage PWM DC-DC Converter for Small Scale Fuel Cell Stack	Khairy Fathy, Hyun Woo Lee, Mutsuo Nakaoka,	The International Conference on Electrical Machines and Systems Nov., 2006, Nagasaki, Japan
16	A Novel Switched Capacitor and Lossless Inductor Quasi-Resonant Snubbers Assisted ZCS-PWM Soft Switching DC-DC Power Converter	Khairy Fathy, Soon Kurl Kwon, Hyun Woo Lee, Mutsuo Nakaoka,	The 2006 International Conference on Electrical Machines and Systems November, 2006, Nagasaki
17	A New High Frequency Linked Soft-Switching PWM DC-DC Converter with High and Low Side DC Rail Active Edge Resonant Snubbers for High Performance Arc Welder	Khairy Fathy, Toshimitsu Doi, Keiki Morimoto, Hyun Woo Lee and Mutsuo Nakaoka	41 st IEEE IAS 2006 ^t annual conference, October 2006
18	Boost-Half Bridge Single Stage PWM DC-DC Converter For Small Scale Fuel Cell Stack	Khairy Fathy, Hyun Woo Lee, Mutsuo Nakaoka,	Power Electronics Technology conference, October 2006, Long Beach California, USA

19	A Novel Soft-Switching PWM HB DC-DC Converter With Dc Rail High And Low Side Active Edge Resonant Snubbers Assisted By High Frequency Transformer Parasitic Components	Khairy Fathy, Nabil A. Ahmed, Kazunori Nishimura, Hyun Woo Lee and Mutsuo Nakaoka	Power Electronics Technology conference and Exhibition, October 2006, Long Beach California, USA
20	Boost-Half Bridge Single Power Stage PWM DC-DC Converter for Small Scale Fuel Cell Stack	Khairy Fathy; Hyun Woo Lee; Mishima, T.; Nakaoka, M.;	PECon '06. IEEE International Power and Energy Conference, 28-29 Nov. 2006 pp:426 - 431
21	Operation Analysis of a Novel High Frequency-Link Asymmetrical Half-Bridge ZCS-PWM DC-DC Converter	Mishima, Tomokazu; Hiraki, Eiji; Tanaka, Toshihiko; Fathy Khairy; Nakaoka, Mutsuo;	Power Conversion Conference - Nagoya, 2007. PCC '07 2-5 April 2007 pp:595 - 600
22	Interleaved ZCS Boost DC-DC Converters Using Quasi-Resonant Switch Blocks for PV Interface and Its Performance Evaluations	Khairy Fathy, Soon Kurl Kwon, and Mutsuo Nakaoka	PCIM Europe 2007, Germany
23	A New Soft-Switching PWM High Frequency Half-Bridge Inverter Linked DC-DC Converter with Diode Clamped Active Edge Resonant Snubbers	Khairy Fathy, Keiki Morimoto, Toshimitsu Doi, Tomokazu Mishima, Soon Kurl Kwon and Mutsuo Nakaoka	PCIM Europe 2007, Germany
24	A Utility AC 400V Grid-Connected DC Rail Side Active Edge Resonant ZVS-PWM DC-DC Converter using High-Frequency Transformer Parasitic Components	Keiki Morimoto, Toshimitsu Doi, Haruhiko Manabe, Khairy Fathy, Mun Sang-pil, Soon Kurl Kwon, Mutsuo Nakaoka	The proceeding of 38th IEEE Power Electronics Specialists Conference, PESC 2007, pp: 238-244
25	Current Source ZCS PFM DC-DC Converter for Magnetron Power Supply	Khairy F.A. Sayed, B.M Hasanien	The IEEE Middle East Power Systems Conference, MEPCON 08, Aswan, Egypt, pp:464-469
26	A High-Frequency Linked Three-Level Phase-Shift ZVS-PWM DC-DC Converter for Distributed DC Power Feeder	Hisayuki Sugimura, Laknath Gamage, Khairy Fathy, Soon-Kurl Kwon, Toshimitsu Doi, Mutsuo Nakaoka	Intelec09-31st, international telecommunication Energy conference on, pp. 1-6, 2009.
27	Interleaved ZCS Boost DC-DC Converters Using Quasi-Resonant Switch Blocks for PV Interface	Khairy F. A. Sayed, Tomokazu Mishima, Hisayuki Sugimura, Sang-Pil Mun, Soon-Kurl Kwon and Mutsuo Nakaoka	The International Conference on Electrical Machines and Systems ICEMS09, pp. 1-7, Tokyo, Japan, Nov. 2009
28	Three-Level Phase Shifted soft transition PWM DCDC power converter with high frequency link for arc welders and its extended version	Sugimura, H. ; Fathy, K. ; Sang-Pil Mun ; Doi, T. ; Mishima, T. ; Nakaoka, M.	IEEE 6th International Conference on Power Electronics and Motion Control IPEMC '09, pp. 1288 - 1294, 2009.
29	Three-Level Phase-Shift ZVS-PWM DC-DC Converter with High Frequency Transformer for High Performance Arc Welding Machines	T. Mishima, H. Sugimura, Khairy Sayed , S. Kwon, M. Nakaoka	IEEE Applied Power Electronics Conference, pp. 1230 – 1237, APEC 2010, USA
30	New DC Rail Side Soft-Switching PWM DC-DC Converter with Current Doubler Rectifier	Sayed, K. ; Soon-Kurl Kwon ; Nishida, K. ; Nakaoka, M.	IEEE Ninth International Conference on Power Electronics and Drive Systems (PEDS), pp. 687 – 694, 2011.
31	New DC Rail Side Soft-Switching PWM DC-DC Converter with High Frequency Planar Transformer	Khairy Sayed, Keiki Morimoto, Soon-Kurl Kwon, Katsumi Nishida, Mutsuo Nakaoka	Power Electronics and ECCE Asia (ICPE & ECCE), 2011 IEEE 8th International Conference on , pp: 44 - 51, 2011.
32	DC-DC Converter with Three-Phase Power Factor Correction for Arc Welder	Khairy Sayed, Keiki Morimoto, Soon-Kurl Kwon, Katsumi Nishida, Mutsuo Nakaoka	Power Electronics and ECCE Asia (ICPE & ECCE), 2011 IEEE 8th International Conference on , pp. 1273 - 1277, 2011.
33	Modeling and Simulation of PV Arrays	Khairy Sayed, Mazen Abdel-Salam , Mahmoud Ahmed, Adel A. Ahmed, "	ASME International Mechanical Engineering Congress & Exposition, IMECE2010-38969, pp:1-8, Vancouver, British Columbia, Canada, November 12-18, 2010.
34	Numerical Simulation of Thin-Film Photovoltaic Solar Cells	Khairy Sayed, Mazen Abdel-Salam , Mahmoud Ahmed,	ASME International Mechanical Engineering Congress & Exposition,

		Adel A. Ahmed,	IMECE 2011-62352, pp:1-8, Denver, Colorado, USA, November 2011.
35	Electro-Thermal Modeling of Solar Photovoltaic Arrays	Khairy Sayed, Mazen Abdel-Salam , Mahmoud Ahmed, Adel A. Ahmed,	ASME International Mechanical Engineering Congress & Exposition, IMECE 2011-62541, pp:1-7, Denver, Colorado, USA, 2011.
36	Hysteresis Current Controlled Single phase Grid-Connected PV Inverter System with LCL Filter	Khairy Sayed, Mazen Abdel-salam, Adel Ahmed, Mahmoud Ahmed,	The Fifteenth International Middle East Power Systems Conference MEPCON'12, Alexandria, pp1-6.
37	A Solar-Wind Hybrid Power System for Irrigation in Toshka Area	Mazen Abdel-Salam, Adel Ahmed, Hamdy Ziedan, Khairy Sayed , Mahmoud Amery and Mohamed Swify, "	IEEE Jordan Conference on Applied Electrical Engineering and Computing Technologies AEECT, pp:38-43, 2011.
38	Design and Implementation of Stand-alone Residential PV System	Mazen Abdel-Salam, Adel Ahmed, Ahmed El-kousy, Khairy Sayed , Mahmoud Amery, Mohamed Swify	IEEE Jordan Conference on Applied Electrical Engineering and Computing Technologies AEECT, pp:50-55, 2011.
39	Steady-state Modeling and Control of a Microgrid Supplying Irrigation Load in Toshka Area	Mazen Abdel-Salam, , Adel Ahmed, Hamdy Ziedan, Rashad Kamel,	", the 38th Annual Conference of the IEEE Industrial Electronics Society, IECON, pp. 5673-5678, 2012.
40	Analysis of Protection System for a Microgrid Supplying Irrigation Load in Toshka Area	Mazen Abdel-Salam, Adel Ahmed, H. Ziedan, R. Kamel, Khairy Sayed, Mahmoud Amery and Mohamed Swify	the 38th Annual Conference of the IEEE Industrial Electronics Society, IECON2012, pp. 5586-5590, 2012.
41	Aggregation of Microgrids for Irrigation in Toshka Area	M. Abdel-Salam, A. Ahmed, H. Ziedan, R. Kamel, K. Sayed, M. Amery, M. Swify, and H. El-Kishky	International Conference on CLEAN ELECTRICAL POWER Renewable Energy Resources Impact Alghero, Sardinia – Italy June 11th-13th, 2013, pp. 539-545.
42	On the Design and Operation of a Standalone Residential PV System in Egypt	Mazen Abdel-Salam, Adel Ahmed, Ahmed El-kousy, Khairy Sayed , Mahmoud Amery, Mohamed Swify, Mohsen Khalaf	International Conference on CLEAN ELECTRICAL POWER Renewable Energy Resources Impact, Alghero, Sardinia – Italy June 11th-13th, 2013, pp. 719-724.
43	Effect of Micro-Grid Renewable Micro-sources on Short Circuit Capacity of Hosted Distribution Networks	Mazen Abdel-Salam, Adel Ahmed, Rashad Kamel, Khairy Sayed, Mahmoud Amery, Mohamed Swify, Mohsen Khalaf, Hassan El-kishky	INTELEC 2013, 35th International Telecommunications Energy Conference,, Hamburg, Germany pp. 458-463, October 2013.
44	Adaptive and Intelligent Protection System Is a Must for Micro Grid Operates In Both Grid Connected and Islanding Modes	Mazen Abdel-Salam, Adel Ahmed, Rashad Kamel, Khairy Sayed, Mahmoud Amery, Mohamed Swify, Mohsen Khalaf, Hassan El-kishky	INTELEC 2013, 35th International Telecommunications Energy Conference, Hamburg, Germany pp. 22-27, October 2013.
45	New DC Rail Side Soft-Switching PWM DC-DC Converter with Voltage Doubler Rectifier for PV Generation Interface	Khairy Sayed, Soon-Kurl Kwon, Katsumi Nishida, Mutsuo Nakaoka	The International Power Electronics Conference IPEC2014, Hiroshima, Japan, pp. 2359-2365, May 2014.
46	Analysis of Overcurrent Numerical-Relays for Protection of a Stand-Alone PV System	M. Abdel-Salam, R. Kamel, M. Khalaf, and K. Sayed	Saudi Arabia Smart Grid Conference on Smart Grids and Green Energy (SASG 2014)
47	Design and Implementation of Soft-Switching DC-DC Converter for Microwave Oven Power Supply	Hamdy A. Ziedan, Hammad Abo-Zied and Khairy Sayed	2nd International Conference on Electrical and Electronics Engineering (ICEEE 2015), Turkey 2015.
48	Control of EV Charging Station based on Three-phase Three-level AC/DC Rectifier	Khairy Sayed and Emad El-Zohri	International Telecommunication Energy Conference (INTELEC 2015). Osaka, Japan
49	A New Circuit Topology for Battery Charger from 200V DC Source to 12V for Hybrid Automotive Applications	Khairy Sayed, Hossam Gabbar, Katsumi Nishida and Mutsuo	IEEE SEGE 2016, Oshawa, ON, Canada, pp. 317-321

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