

Publications

1. Azhar Ul-Haq, Marium Azhar, Yousef Mahmoud, Aqib Perwaiz and E. A. Al-Ammar, "Probabilistic Modeling of Electric Vehicle Charging Pattern Associated with Residential Load for Voltage Unbalance Assessment," *Energies Journal*, Vol. 10, No. 4, Sep. 2017.
2. Azhar Ul-Haq, Carlo Cecati and E. A. Al-Ammar, "Modeling of a Photovoltaic-Powered Electric Vehicle Charging Station with Vehicle-to-Grid Implementation," *Energies Journal*, Vol. 10, No. 4, Dec 2016.
3. Rustom Mamlook, T. P. Imthias Ahamed, S. Danish Maqbool, E. A. Al-Ammar and N.H. Malik, "A Fuzzy Simulated Annealing Algorithm for Minimizing Consumer Electricity Bill under Demand Response," *International Journal of Computer Science and Information Security (IJCSIS)*, pp. 144-160, Vol. 14, No. 11, Nov. 2016.
4. A.I. Arif, M. Babar, T.P. Imthias Ahamed, E.A. Al-Ammar, P.H. Nguyen, I.G. René Kamphuis, and N.H. Malik, "Online scheduling of plug-in vehicles in dynamic pricing schemes," *Sustainable Energy, Grids and Networks Journal*, pp. 25-36, Vol. 7, Sep. 2016.
5. Youngho Cho, E. A. Al-Ammar and Kyeon Hur, "Reference compensation method for enabling dispatchability of the wind power generation using battery energy storage system," *Journal of International Council on Electrical Engineering*, pp. 1-7, Vol. 6, No. 1, Jan. 2016.
6. Mohamed A. El-Kady, E. A. Al-Ammar, Yasir A. Alturki, Mohamed S. Smiai, and Zaid S. Al Otaibi, "Supply quality improvement in electric power systems in Riyadh city, Saudi Arabia," 4th IEEE International Conference on Electric Power and Energy Conversion Systems (EPECS), pp. 1-6, 24-26 Nov. 2015, Sharjah, UAE.
7. F. R. Pazheri. M. F. Othman, E. A. Al-Ammar, and Safoora O. K, " Clean and efficient power dispatch at hybrid power plant with energy storage," 2015 IEEE Power & Energy Society General Meeting, pp. 1932-5517, 26-30 July 2015, Denver, CO, USA.
8. Sehyun Kim, Jae Woong Shim, Kyeon Hur, and E. A. Al-Ammar, "Grid-adaptive limitation of Short Circuit Current Contribution of Wind Power Plant with Superconducting Fault Current Controller," 2015 IEEE Power & Energy Society General Meeting, pp. 1932-5517, 26-30 July 2015, Denver, CO, USA.
9. Jaesik Kang, Tae Kuk Ko, E. A. Al-Ammar, and Kyeon Hur, "Jointless Pancake Coil Winding for Minimizing Electrical Loss in HTS SMES for Wind Power," *IEEE Transactions on Applied Superconductivity*, Vol. 25, No. 3, June 2015.
10. Suncheul Kim, Chang-Soo Lee, Seungtae Kim, R. B. V. Chalapathy, E. A. Al-Ammar and Byung Tae Ahn, "Understanding the light soaking effect of ZnMgO buffer in CIGS solar cells," (*PCCP*), Vol. 2, No. 29, pp. 4789-4795, June 2015.
11. M. Babar, T. P. I. Ahamed, E. A. Al-Ammar, and A. Shah "Consolidated demand bid model and strategy in constrained Direct Load Control program," 2015 IEEE 8th GCC Conference and Exhibition (GCCCE), pp. 1-6, 1-4 Feb. 2015, Muscat, Oman.

12. M. Babar, T. P. I. Ahamed, and E. A. Al-Ammar, "The Consumer Rationality Assumption in Incentive Based Demand Response Program via Reduction Bidding," *Journal of Electrical Engineering Technology (JEET)*, Vol. 1, No. 10, pp. 64-74, Jan. 2015.
13. E. A. Al-Ammar, "Tri-generation and solar power for an efficient and environmental friendly power generation," 5th IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT-Europe), pp. 1-6, 12-15 Oct. 2014, Istanbul, Turkey.
14. Mohammed I. Qureshi, Abderrahmane Beroual, and E. A. Al-Ammar, "Optical observation of streamer propagation and breakdown in seed based insulating oil under impulse voltages," *International Journal of Physical Sciences*, pp. 292-301, Vol. 9, No. 13, July 2014.
15. Youngho Cho, E. A. Al-Ammar, and Kyeon Hur, "Keeping the Battery Energy Storage System on using Reference Compensation Method for Dispatchable Wind," *International Conference on Electrical Engineering (ICEE)*, 15-19 June 2014, Jeju, Korea.
16. Abderrahmane Beroual, Viet-Hung Dang, E. A. Al-Ammar and Muhammad Iqbal Qureshi, "Comparative Study of Streamers' Characteristics in Different Seed Based Insulating Oils under Lightning Impulse Voltages," *Journal of David Publishing*, Vol. 8, No. 4, pp. 735-740, April 2014.
17. Chang-Soo Lee, Suncheul Kim, E. A. Al-Ammar, HyuckSang Kwon, and Byung Tae Ahn, "Effects of Zn Diffusion from (Zn,Mg)O Buffer to CIGS Film on the Performance of Cd-Free Cu(In,Ga)Se₂ Solar Cells," *ECS Journal of Solid State Science and Technology*, Vol. 3, No. 6, pp. 99-103, April 2014.
18. Muhammad Babar, Arslan A. Rizvi, E. A. Al-Ammar, and Nazar H. Malik, "Analytical Model of Multi-junction Solar Cell," *Arabian Journal for Science and Engineering*, Vol. 39, No. 1, pp. 547-555, Jan. 2014.
19. Zakaria Mohd. Amin, Ali. I. Maswood, M.N.A. Hawlader, E. A. Al-Ammar, Jamel Orfi and Hany Al-Ansary, "DESALINATION WITH A SOLAR-ASSISTED HEAT PUMP, AN ECONOMIC OPTIMIZATION," *IEEE Systems Journal*, Vol. 7, No. 4, pp. 732 - 741 Dec. 2013.
20. M. Babar, T. A. Taj, T. P. I. Ahamed, and E. A. Al-Ammar, "The conception of the aggregator in demand side management for domestic consumers," *International Journal of Smart Grid and Clean Energy*, Vol. 2, No. 3, pp. 371-375, Oct. 2013.
21. A. B. Khan, T.P.I. Ahmed, S. Q. Ali, and E. A. Al-Ammar, "Novel diverse tariff scheme to enhance demand response," 3rd IEEE International Conference on Electric Power and Energy Conversion Systems (EPECS), pp. 1-6, 2-4 Oct. 2013, Istanbul Turkey.
22. M. Babar, T. P. I. Ahamed, A. Shah, E. A. Al-Ammar, and N.H. Malik, "Novel algorithm for aggregated demand response strategy for smart distribution network," 3rd IEEE International Conference on Electric Power and Energy Conversion Systems (EPECS), pp. 1-5, 2-4 Oct. 2013, Istanbul Turkey.
23. A. I. Maswood, O. H.P. Gabriel, and E. A. Al-Ammar, "Comparative study of multilevel inverters under unbalanced voltage in a single DC link," *Journal of IET Power Electronics*, Vol. 6, No. 8, pp. 1530-1543, Sep. 2013.

24. Dong Hyeop Shin, Ji Hye Kim, Seung Tae Kim, Liudmila Larina, E. A. Al-Ammar, and Byung Tae Ahn, "Growth of a High-quality Zn(S,O,OH) thin film via chemical bath deposition for Cd-free Cu(In,Ga)Se₂ solar cells," *Solar Energy Materials and Solar Cells*, Vol. 116, No. 2, pp. 76-82, Sep. 2013.
25. Young Jin Hwang, Sukjin Choi, Jae Young Jang, Jiho Lee, Yong Soo Yoon, Ho Min Kim, Yoon Do Chung, Young-Sik Jo, Mi Hye Jang, E. A. Al-Ammar, and Tae Kuk Ko, "A Study on the Superconducting Synchronous Generator With the Fixed-Type Field Coil," *IEEE Transactions on Applied Superconductivity*, Vol. 23, No. 3, June 2013.
26. S. Q. Ali, Hany M. Hasanien, and E. A. Al-Ammar, "Application of an Adaptive Artificial Neural Network Controller for Improving the Dynamic Response of Doubly Fed Induction Generators-Based Wind Farm," *Journal of Bioinformatics and Intelligent Control*, Vol. 2, No. 2, pp. 83-91, June 2013.
27. Jae Young Jang, Jiho Lee, Young Gun Park, Jinsub Kim, Jae Woong Shim, Min Cheol Ahn, Kyeon Hur, Tae Kuk Ko, E. A. Al-Ammar and M. Babar, "A Novel and Smart Design of Superconducting Fault Current Controller: Implementation and Verification for Various Fault Condition," *IEEE Transactions on Applied Superconductivity*, Vol. 23, No. 3, June 2013.
28. M. Babar, T.P. Imthias Ahamed, E. A. Al-Ammar, and Aqueel Shah, "A Novel Algorithm for Demand Reduction Bid based Incentive Program in Direct Load Control," *Energy Procedia, Proceedings of an International Conference Mediterranean Green Energy Forum 2013*, Vol. 42, pp. 607-613, June 2013.
29. A. Arif, T.P. Imthias, and E. Al-Ammar, "Pursuit Algorithm for Scheduling PEV Charging," *International Conference on Power Engineering, Energy and Electrical Drives (POWERENG 2013)*, pp. 915-920, May 2013, Turkey.
30. Byung Tae Ahn, Chang-Soo Lee, Young Min Shin, Suncheol Kim, and E. A. Al-Ammar, "Characterization of Atomic Layer Deposited Zn_{1-x}Mg_xO Thin Films with Mg(CpEt)₂ as a Mg source for Buffer Layer of Cu(In,Ga)Se₂ Solar Cells," *Electrochemical Society Journals*, Vol. 2, No. 6, pp. 248-252, April 2013.
31. Young Min Shin, Chang Soo Lee, Dong Hyeop Shin, Young Min Ko, E. A. Al-Ammar, Hyuck Sang Kwon, and Byung Tae Ahn, "Characterization of Cu(In,Ga)Se₂ Solar Cells Grown on Na-Free Glass with an NaF Layer on a Mo Film Electronic Materials and Processing," *ECS Journal of Solid State Science and Technology*, Vol. 2, No. 6, pp. 248-252, April 2013.
32. A. Arif, M. Al-Hussain, N. Al-Mutairi, E. Al-Ammar, Y. Khan, N. Malik, "Experimental Study and Design of Smart Energy Meter for the Smart Grid" *International Renewable and Sustainable Energy Conference (IRSEC'13)*, pp. 515 – 520, March 2013, Ouarzazate Morocco.
33. Xiong Liu, Poh Chiang Loh, Peng Wang, F. Blaabjerg, Yi Tang, E. A. Al-Ammar, "Distributed Generation Using Indirect Matrix Converter in Reverse Power Mode," *IEEE Transactions on Power Electronics*, Vol. 28, No. 3, pp. 1072-1082, March 2013.
34. W.Y. Lee, J. Huh, S.Y. Choi, X.V. Thai, J.H. Kim, E.A. Al-Ammar, M. A. El-Kady, and C.T. Rim, "Finite-Width Magnetic Mirror Models of Mono and Dual Coils for Wireless Electric Vehicles," *IEEE Transactions on Power Electronics*, Vol. 28, No. 3, pp. 1413-1428, March 2013.

35. Dong Hyeop Shin, Ji Hye Kim, Young Min Shin, Kyung Hoon Yoon, E. A. Al-Ammar, and Byung Tae Ahn, "Improvement of the Cell performance in the ZnS/Cu(In,Ga)Se₂ Solar Cells by the Sputter-deposition of a Bilayer ZnO: Al film," *Progress in Photovoltaics*, No. 2, Vol 21, pp. 217-225, March 2013.
36. M. Babar, E. A. Al-Ammar and Nazar H. Malik, "Simulation and Modeling of Multi-Junction Solar Cell for Concentrated Photovoltaics using MATLAB/Simulink", 1st International Conference on Power Engineering, Energy and Electrical Drives (PEED13), Jan. 2013, Cambridge, MA, USA.
37. F. R. Pazheri, M. F. Othman, N. H. Malik and E. A. Al-Ammar, "Optimization of Fuel Cost and Transmission Loss in Power Dispatch with Renewable Energy and Energy Storage," *International Conference on Green Technologies (ICGT12)*, pp. 293 – 296, 18-20 Dec. 2012, Kerala, India.
38. F. R. Pazheri, M. F. Othman, N. H. Malik E. A. Al-Ammar and M. Babar, "Environmental Friendly Power dispatch in Saudi Arabia with Optimum Transmission Loss," *IEEE International Conference on Saudi Arabia Smart Grid (SASG2012)*, 08-11 Dec. 2012, Jeddah, Saudi Arabia.
39. Muhammad Babar, Imthias Ahmed, Aqueel Shah, Sami H. Al Ghannam, E. A. Al-Ammar, Nazar H. Malik and Faisal R. Pazheri, "An Algorithm for Load Curtailment in Aggregated Demand Response Program", *IEEE International Conference on Saudi Arabia Smart Grid (SASG2012)*, 08-11 Dec. 2012, Jeddah, Saudi Arabia.
40. E.A. Al-Ammar and B.A. Arafa, "Experimental analysis of hydrophobic characteristics of Silicone rubber (SiR) insulators under different climatic conditions," *International Journal of Physical Sciences*, Vol. 7, No. 47, pp. 6162-6168, Dec. 2012.
41. E. A. Al-Ammar, "Technological Challenges and Opportunities in Power Generation Sector," 18th Annual Energy Conference, Emirates Center for Strategic Studies and Research (ECSSR), Nov. 2012, Abu Dhabi, UAE.
42. Muhammad Babar, E. A. Al-Ammar and Nazar H. Malik, "Numerical Simulation Model of Multijunction Solar Cell", *Journal of Energy Technologies and Policy*, The International Institute of Science, Technology and Education, Vol. 2 No. 7, pp. 44-53, Nov. 2012.
43. F. R. Pazheri¹, M. F. Othman, N. H. Malik and E. A. Al-Ammar, "Pollution Emission Reduction with Minimum Transmission Loss in Power Dispatch including Renewable Energy and Energy Storage," *International Review of Electrical Engineering (I.R.E.E.)*, Vol. 7, No. 5, pp. 5769-5778, Oct. 2012.
44. Dang Viet-Hung, A Beroual, E. A. Al-Ammar and M. I Qureshi, "Comparative PD characteristics of pressboard/mineral oil and pressboard/vegetable oil insulating systems," *International Conference on Condition Monitoring and Diagnosis (CMD)*, , pp. 890 – 893, 23-27 Sept. 2012, Bali, Indonesia.
45. Dang Viet-Hung, A Beroual, E. A. Al-Ammar and M. I Qureshi, "Streamer Propagation in Seed Based Insulating Oils under Lightning Impulse Voltages," 3rd International Conference on High Voltage Engineering (ICHVE 2012), 17-20 Sep. 2012, pp. 659 – 662, Shanghai, China.
46. 19. Hany M. Hasanien, and E. A. Al-Ammar, "Dynamic Response Improvement of Doubly Fed Induction Generator Based Wind Farm Using Fuzzy Logic

Controller”, Journal of Electrical Engineering, Slovakia, Vol. 63, No. 5, pp. 281-288, Sep. 2012.

47. E.A. Al-Ammar, “INFLUENCE OF PV PENETRATION IN SAUDI DISTRIBUTION GRID,” International Journal of Engineering Science and Technology (IJEST), Vol. 4, No. 8, pp. 3956 - 3960, Aug. 2012.
48. H. Talaat, N H Malik and E. A. Al-Ammar, “Adaptive Reclosing Strategy Based on Estimation of Distributed Generation Penetration Level,” International Conference on Probabilistic Methods Applied to power systems (PMAPS), July 2012, Istanbul, Turkey.
49. Faisal R. Pazheri, Nazar H. Malik, Abdulrehman A. Al-Arainy, Safoora Ottukulotk, Mohd F. Othman, E. A. Al-Ammar and Imthias Ahamed T. P., “Use of Renewable Energy Sources in Saudi Arabia through Smart Grid”, Journal of Energy and Power Engineering, Vol. 6, pp. 1065-1070, July 2012.
50. M. Babar, S. Q. Ali and E. A. Al-Ammar, “Simulink Modeling of a Tunnel Junction,” 6th WSEAS International Conference on renewable Energy Resources (RES'12), July 1-3 2012, Porto, Portugal.
51. Nikolay Tsvetkov, Liudmila Larina, Oleg Shevaleevskiy, E. A. Al-Ammar, and Byung Tae Ahn, “Design of conduction band structure of TiO₂ electrode using Nb doping for highly efficient dye-sensitized solar cells,” Progress in Photovoltaics: Research and Applications, Vol. 20, No. 7, pp. 904-911, June 2012.
52. A. I Maswood, E. A. Al-Ammar, and E. Firmansyah, “An unity PF controlled rectifier driving a shunt DC motor for power quality application,” Asia-Pacific IEEE Symposium on Electromagnetic Compatibility (APEMC), pp. 217-220, 21-24 May 2012, Singapore, Singapore.
53. S. Q. Ali, M. Babar, S. Danish Maqbool and E. A. Al-Ammar, “Comparative Analysis of AC DC Microgrids for the Saudi Arabian Distribution System,” IEEE PES Transmission and Distribution Conference and Exposition, pp. 1-8, May 7-10, 2012, Orlando, USA.
54. J. Yoo, B. Park, K. An, E. A. Al-Ammar, Y. Khan and J. H. Kim “Look-ahead Energy Management of a Grid-connected Residential PV System with Energy Storage under Time-based Real Programs,” Energies Journal, Vol. 5, No. 4, April 2012.
55. Muhammad Babar, Syed Q. Ali, E. A. Al-Ammar and Nazar H. Malik, “Generalized Multi-Junction Solar Cell Model Including Effect of Tunneling Layer Using Simulink /MATLAB,” 8th International Conference on Concentrating Photovoltaic System 2012. 16-18 April 2012, Toledo, Spain.
56. Chang-Soo Lee, Liudmila Larina, Young-Min Shin, E. A. Al-Ammar, and Byung Tae Ahn, “Design of energy band alignment at the Zn_{1-x}Mg_xO/Cu(In,Ga)Se₂ interface for Cd-free Cu(In,Ga)Se₂ solar cells,” Physical Chemistry Chemical Physics (PCCP), Vol. 14, No. 14, pp. 4789-4795, Mar 2012.
57. J. Han, K. S. An, K Hur, E. A. Al-Ammar, Y. Khan and J. H. Kim, “Exploiting the Flexibility of Controllable Residential Loads for Energy and Peak Demand saving”, Submitted to Energies Journal, Feb. 2012.
58. S. Danish Maqbool, E. A. Al-Ammar, “Effects of Demand Elasticity and Price Variation on Load Profile,” 1st IEEE Innovative Smart Grid Technologies-ME (ISGT 2011), Dec. 17-20 2011, Jeddah, Saudi Arabia.

59. Syed Usman Ali, E. A. Al- Ammar, Syed Danish Maqbool and Basil AsSadhan, "Comparative Study of Various Security Algorithms Used in Smart Meters," Proceeding of 1st IEEE Innovative Smart Grid Technologies-ME (ISGT 2011), Dec. 17-20, 2011, Jeddah, Saudi Arabia.
60. W. Y. Lee, J. Huh, S. Y. Choi, X. V. Thai, J. H. Kim, E. A. Al-Ammar, M. A. El-Kady, and C. T. Rim, "Finite Width Magnetic Mirror Models of Mono and Dual Coils for Wireless Electric Vehicles," IEEE Transaction on Power Electronics, Dec. 2011.
61. Imthias Ahamed, S. Danish Maqbool, E. A. Al-Ammar and N.H. Malik, "A Simulated Annealing Algorithm for Demand Response," 2nd IEEE Innovative Smart Grid Technologies- EUROPE (ISGT-EUROPE 2011), Dec. 05-07, 2011, Manchester, UK.
62. F R Pazheri, N. H. Malik, A A Al-Arainy, Safoora O K, E. A. Al-Ammar and T.P.I Ahmad, "Use of Renewable Energy Sources in Saudi Arabia through Smart Grid," Journal of Electrical Power and Energy, David Publishing, USA. 2011.
63. S. Danish Maqbool, T. P. Imthias Ahamed, E. A. Al-Ammar and N.H.Malik, "Demand Response in Saudi Arabia," 2nd International Conference on Electric Power and Energy Conversion Systems (EPECS'11), Nov. 15-17, 2011, Sharjah, UAE.
64. Hossam E. A. Taalat and E. A. Al-Ammar," Optimal Allocation and Sizing of Distributed Generation in Distribution Networks Using Genetic Algorithms," Proceeding of 11th International Conference on Electrical Power Quality and Utilization (EPQU2012), Lisbon, Portugal, 17-19 Oct. 2011.
65. E. A. Al-Ammar, N. H. Malik, and M. Usman, "Utilization of hybrid renewable energy in Saudi Arabia," Proceeding of 10th International Conference on Sustainable Energy Technologies, Istanbul, Turkey, Sep. 2011.
66. Beroual, L. Kebbab, E. A. Al-Ammar, and M. I. Qureshi, " Analysis of Creeping Discharges Activity at Solid/Liquid Interfaces Subjected to AC Voltage," Journal of IET Generation, Transmission & Distribution, Vol. 5, No. 9, Sep. 2011, pp. 973-978.
67. Maswood, E. A. Al-Ammar, and Fangrui Liu, " Average and Hysteresis Current Controlled Three-Phase Three-Level Unity Power Factor Rectifier Operation and Performance," Journal of IET Power Electronics, Vol. 4, No. 7, August 2011, pp. 752-758.
68. E. A. Al-Ammar and B. Arafa, "PERFORMANCE OF SEMICONDUCTING GLAZED INSULATORS UNDER SEVERE INDUSTRIAL," International Journal of Power and Energy Systems, Vol. 31, No. 3, August 2011, pp. 171-176.
69. E. A. Al-Ammar, N. H. Malik, M. Usman "Application of using Hybrid Renewable Energy in Saudi Arabia," Engineering, Technology & Applied Science Research, Vol. 1, No. 4, August 2011, pp. 84-89.
70. E.A. Al-Ammar and M.A. El-Kady, "Efficient Calculation of Operating Security Regions in Power Systems," International Journal of Physical Sciences, Vol. 6, No. 14, July 2011, pp. 3475 – 3486.
71. Beroual, S. Diampeni, N.H. Malik , A.A. Al-Arainy and E. A. Al-Ammar, "Modeling and Simulation of Discharges Propagating over Discontinuously Polluted

- Insulator Surfaces under Impulse Voltages," International Review of Modelling and Simulations (IREMOS), Vol. 2, No. 2, April 2011, pp. 732-738.
72. F.R. Pazheri, N.H. Malik, A.A. Al-Arainy, E.A. Al-Ammar, Imthias A., and Safoora O K, " Smart Grid Can Make Saudi Arabia Megawatt Exporter," Proceeding of Asia-Pacific Power and Energy Engineering Conference (APPEEC 2011), Wuhan, China, March 2011.
 73. Imthias Ahamed T. P., Jasmin E. A., E. A. Al-Ammar, "Reinforcement Learning in Power System Scheduling and Control: A Unified Perspective," Proceeding of IEEE Symposium on Computer and Informatics, Malaysia, March 2011.
 74. Imthias Ahamed T Parambath, E. A Jasmin, Faisal R. Pazheri, and E. A. Al-Ammar, "Reinforcement Learning Solution to Economic Dispatch Using Pursuit Algorithm," Proceeding of IEEE GCC Conference & Exhibition (2011 IEEE GCC), Dubai, UAE, Feb. 2011.
 75. E. A. Al-Ammar, "Detailed Study on Establishing a PV Power Plant to Generate Electricity in Saudi Arabia," Journal of Energy and Power Engineering, Vol. 5, Feb. 2011, pp. 155-163.
 76. E. A. Al-Ammar, Yasin Khan, Nazar Malik, and Nissar Wani, "Development of Low Resistivity Material For Grounding Resistance Reduction," IEEE ENERGYCON, Bahrain, Dec. 2010.
 77. A.I. Maswood and E. A. Al-Ammar, "Analysis of a PWM voltage source inverter with PI controller under non-ideal conditions," Proceeding of 9th International Power and Energy Conference IPEC2010, Singapore, Oct. 2010.
 78. E. A. Al-Ammar, "Renewable Energy in Saudi Arabia: Issues and Challenges," Second International Conference on Nuclear and Renewable Energy Resources, Ankara, Turkey, July 2010.
 79. E. A. Al-Ammar, "Measuring and Evaluating Degree of Awareness and Behaviors of Electricity Conservation at King Saud University," Proceeding of 4th WSEAS International Conference on Energy Planning, Energy Saving, Environmental Education (EPESE '10), Sousse, Tunisia, May 2010.
 80. E. A. Al-Ammar and M.A. El-Kady, "Application of Operating Security Regions in Power Systems," Proceeding of IEEE PES Transmission and Distribution Conference and Exposition, New Orleans, LA, April 2010.
 81. Maswood, E. A. Al-Ammar, and S. Nandakumar, "Modelling and Performance of a Fuel Cell/Ultra-Capacitor based Vehicle," International Conference on Applied Energy (ICAE), Singapore, April 2010.
 82. E. A. Al-Ammar and A. Al-Aotaibi, " Feasibility Study of Establishing a PV Power Plant to Generate Electricity in Saudi Arabia from Technical, Geographical, and Economical Viewpoints," Proceeding of International Conference on Renewable Energies and Power Quality (ICRE PQ'10), Granada, Spain, 23-25 March, 2010.
 83. E. A. Al-Ammar and B. Al-Yousef, "Feasibility Study of Establishing a Wind Farm to Generate Electricity in Saudi Arabia," Proceeding of International Nuclear & Renewable Energy Conference (INREC' 10), Amman, Jordan, March 21-24, 2010.
 84. Yasin Khan, A. A. Al-Arainy M. I. Qureshi, N. H. Malik, and E. A. Al-Ammar, " Loss & Recovery of Hydrophobicity of the EPDM Insulators in Simulated Arid

Desert Environment," Proceeding of Asia-Pacific Power and Energy Engineering Conference, Wuhan, China, 28-31 March, 2010.

85. E. A. Al-Ammar, "Evaluation of Seed Oils Based on Statistical Breakdown Data for their Application as Insulating Fluid," *European Journal of Scientific Research*, Vol. 40, No. 1, Feb. 2010, pp. 15-26.
86. E. A. Al-Ammar, and M. Qureshi, "Probing the use of green insulating oils in transformers based on their statistical breakdown data," *Processing of International Conference on Electric Power and Energy Conversion Systems (EPECS '09)*, Sharjah, UAE, Nov. 2009, pp. 1-6.
87. M.A. El-Kady and E. A. Al-Ammar, "Framework for Identification of Power System Operating Security Regions," *Proceeding of Third International Conference on Network and System Security (NSS 2009) and FIAS'09 Workshop*, Gold Coast, Australia, Oct. 2009.
88. E. A. Al-Ammar, "Determination of Resiliency of the power system network due to intentional attacks," *Proceeding of the fifth Saudi Technical Conference and Exhibition*, Riyadh, Saudi Arabia, January 2009.
89. E. A. Al-Ammar and G. G. Karady, "Novel technique to improve the fault detection sensitivity in maintenance impulse test," *European Transactions on Electrical Power*, December 2008.
90. E. A. Al-Ammar, G. G. Karady and H. J. Sim, "Novel technique to improve the fault detection sensitivity in transformer impulse test," *IEEE Trans. Power Delivery*, vol. 23, no. 2, April 2008, pp. 717-725.
91. E. A. Al-Ammar, G. G. Karady, M. W. Tuominen, and D. J. Vermeers, "Experimental correlation of the aging process of the ADSS fiber optic cables in ASU's environmental chamber to field tests in Bandon, OR," *IEEE Trans. Power Delivery*, Vol. 23, No. 2, April 2008, pp. 1049-1054.
92. G. G. Karady, E. A. Al-Ammar, and S. Venkataraman, "Performance evaluation of insulating links used for worker protection in cranes," *IEEE Trans. Dielectrics and Electrical Insulation*, Vol. 15, No. 2, April 2008, pp. 453-460.
93. E. A. Al-Ammar, G. G. Karady, M. W. Tuominen, and D. J. Vermeers, "Experimental studies of the aging characteristics of the ADSS fiber optic cables," *Proceeding of IEEE Conf. Electrical Insulation and Dielectric Phenomena*, Vancouver, British Columbia, Canada, October 2007.
94. E. A. Al-Ammar, G. G. Karady, and O. P. Hevia, "Improved technique for fault detection sensitivity in transformer maintenance test," *Proceeding of IEEE Power Engineering Society General Meeting*, Tempe, FL, June 2007.
95. E. A. Al-Ammar and G. G. Karady, "Simplified transient model of the transformer during impulse test," *Proceeding of Ninth IASTED International Conf.*, no. 539-046, Clearwater, FL, January 2007, pp. 223-228.
96. E. A. Al-Ammar and J. Fisher, "Resiliency assessment of the power system network to cyber and physical attacks," *Proceeding of IEEE Power Engineering Society General Meeting*, Montreal, Quebec, Canada, June 2006.
97. E. A. Al-Ammar, G. G. Karady, and M. W. Tuominen, "Impacts of the induced current on the aging of the ADSS fiber optic cables," *Proceeding of IEEE Power Engineering Society General Meeting*, Montreal, Quebec, Canada, June 2006.

98. G. G. Karady, E. A. Al-Ammar, B. Shi, and M. W. Tuominen, "Experimental verification of the proposed IEEE performance and testing standard for ADSS fiber optic cable for use on electric utility power lines," *IEEE Trans. Power Delivery*, vol. 21, no. 1, January 2006, pp. 450-455.
99. E. A. Al-Ammar and G. G. Karady, "Transfer function analysis using STFT for improvement of the fault detection sensitivity in transformer impulse test," *Proceeding of IEEE Power Engineering Society General Meeting*, vol. 2, San Francisco, CA, June 2005, pp. 1855-1862.