

## Prof. AYŞEN BASA ARSOY

### Personal Information

Office Phone: [+90 262 303 3500](tel:+902623033500)

Web: <https://avesis.kocaeli.edu.tr/aba>

Address: Kocaeli Üniversitesi Umuttepe Yerleşkesi Mühendislik Fakültesi Elektrik Mühendisliği Bölümü İzmit/KOCAELİ

### International Researcher IDs

ScholarID: C2ooQvMAAAAJ

ORCID: 0000-0002-5279-0366

Publons / Web Of Science ResearcherID: F-5374-2018

ScopusID: 6505785502

Yoksis Researcher ID: 153707

### Education Information

Doctorate, Virginia Polytechnic Institute and State University, College Of Engineering , Bradley Department Of Electrical And Computer Engineering, United States Of America 1996 - 2000

Postgraduate, University of Missouri-Rolla, College Of Engineering And Computing, Electrical And Computer Engineering, United States Of America 1994 - 1996

Undergraduate, Istanbul Technical University, Elektrik-Elektronik Fakültesi, Elektrik Mühendisliği Bölümü, Turkey 1988 - 1992

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, Electromagnetic Transient and Dynamic Modeling and Simulations of a StatCom-SMES Compensator in Power Systems, Virginia Polytechnic Institute And State University, 2000

Postgraduate, Steady State Voltage Security Assessment, University Of Missouri-Rolla, 1996

### Research Areas

Direct Energy Conversion and Energy Storage, Power System Analysis, Generating Stations and Plants, Electric Power Transmission, Distribution and Protection, Protection Systems, Renewable energy, Power Quality

### Academic Titles / Tasks

Professor, Kocaeli University, Mühendislik Fakültesi, Elektrik Mühendisliği, 2018 - Continues

Associate Professor, Kocaeli University, Mühendislik Fakültesi, Elektrik Mühendisliği, 2013 - 2018

Assistant Professor, Kocaeli University, Mühendislik Fakültesi, Elektrik Mühendisliği, 2001 - 2012

Research Assistant, Kocaeli University, Mühendislik Fakültesi, Elektrik Mühendisliği, 1993 - 2001

## Academic and Administrative Experience

Ethics Committee Member, Kocaeli University, REKTÖRLÜK, 2021 - Continues  
Member of the Senate, Kocaeli University, Mühendislik Fakültesi, 2020 - Continues  
Fakülte Kurulu Üyesi, Kocaeli University, Mühendislik Fakültesi, 2018 - Continues  
Member of University Strategic Planning Commission, Kocaeli University, REKTÖRLÜK, 2022 - 2024  
Member of University Quality Commission, Kocaeli University, REKTÖRLÜK, 2019 - 2024  
Head of Department, Kocaeli University, Mühendislik Fakültesi, Elektrik Mühendisliği, 2018 - 2021  
Erasmus Program Department Coordinator, Kocaeli University, Mühendislik Fakültesi, Elektrik Mühendisliği, 2006 - 2021  
Vice Dean, Kocaeli University, Mühendislik Fakültesi, 2017 - 2020  
Deputy Head of Department, Kocaeli University, Mühendislik Fakültesi, Elektrik Mühendisliği, 2008 - 2010

## Courses

### Postgraduate

DIGITAL PROTECTION OF POWER SYSTEMS, Postgraduate, 2024 - 2025

### Undergraduate

Power Transmission, Undergraduate, 2024 - 2025  
GRADUATION PROJECT, Undergraduate, 2024 - 2025  
POWER TRANSMISSION, Undergraduate, 2024 - 2025  
İşyerinde Mühendislik Eğitimi, Undergraduate, 2024 - 2025  
CIRCUIT ANALYSIS, Undergraduate, 2024 - 2025  
POWER SYSTEM ANALYSIS, Undergraduate, 2024 - 2025  
ELECTRICAL ENGINEERING PROJECT, Undergraduate, 2024 - 2025  
Fundamentals of Power Systems, Undergraduate, 2023 - 2024  
POWER SYSTEM ANALYSIS, Undergraduate, 2023 - 2024  
POWER SYSTEM CONTROL, Undergraduate, 2023 - 2024  
POWER SYSTEM CONTROL, Undergraduate, 2023 - 2024

## Supervised Theses

Basa Arsoy A., Güç kalitesi indisleri ile dağıtılmış üretim sistemlerinin değerlendirilmesi, Postgraduate, B.EKİNCİ(Student), 2021  
Basa Arsoy A., IEEE 1584 Standardına Göre Ark Flaş Analizi Ve Uygulamaları, Postgraduate, V.AYDOĞAN(Student), 2020  
Basa Arsoy A., Dağıtılmış üretim kaynakları bağlı şebekelerde koruma koordinasyonu yaklaşımlarının incelenmesi, Postgraduate, S.CEM(Student), 2018  
Basa Arsoy A., Elektrik şebekelerinde telekoruma olarak IEC 61850 uygulaması, Postgraduate, İ.ALTUN(Student), 2018  
Basa Arsoy A., İletim hatlarında empedans tabanlı arıza yeri tespiti için yeni bir yaklaşım, Postgraduate, A.ÇAPAR(Student), 2015  
Basa Arsoy A., Dağıtılmış üretim kaynakları ile istemli ada çalışma, Postgraduate, M.CANSEVER(Student), 2015  
Basa Arsoy A., Trakya bölgesindeki özel bir santralin geçici durum kararlılık kriterlerinin belirlenmesi, Doctorate, L.KILIÇ(Student), 2015  
Basa Arsoy A., Rüzgar santrallerinin dinamik modellemesi ve analizi, Doctorate, M.KENAN(Student), 2014  
Basa Arsoy A., Dağıtılmış üretim içeren dağıtım şebekelerinde merkezi koordinasyon rölesi tasarımı, Doctorate, F.MEHMET(Student), 2011  
Basa Arsoy A., Dağıtılmış üretim kaynaklarının elektrik dağıtım sistemlerine etkileri, Postgraduate, K.KARAARSLAN(Student), 2010

## Jury Memberships

Associate Professor Exam, Associate Professor Exam, YÖK, January, 2025  
Associate Professor Exam, Associate Professor Exam, YÖK, January, 2025  
Associate Professor Exam, Associate Professor Exam, YÖK, May, 2024  
Associate Professor Exam, Associate Professor Exam, YÖK, February, 2024  
Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, Sivas Bilim Ve Teknoloji Üniversitesi, January, 2024  
Associate Professor Exam, Associate Professor Exam, YÖK, December, 2023  
Associate Professor Exam, Associate Professor Exam, YÖK, June, 2023  
Post Graduate, Post Graduate, Kocaeli Üniversitesi, June, 2023  
Associate Professor Exam, Associate Professor Exam, UAK, December, 2022  
Doctorate, Doctorate, Kocaeli Üniversitesi, December, 2022  
Post Graduate, Post Graduate, Kocaeli Üniversitesi, September, 2022  
Doctorate, Doctorate, İstanbul Teknik Üniversitesi, September, 2022  
Administrative Staff Examination, Administrative Staff Examination, Kocaeli Üniversitesi, August, 2022  
Post Graduate, Post Graduate, Kocaeli Üniversitesi, June, 2022  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, İstanbul Teknik Üniversitesi, January, 2022  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Kocaeli Üniversitesi, January, 2022  
Associate Professor Exam, Associate Professor Exam, UAK, January, 2022  
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Kırklareli Üniversitesi, November, 2021  
Doctorate, Doctorate, Gebze Teknik Üniversitesi, August, 2021  
Post Graduate, Post Graduate, Gebze Teknik Üniversitesi, January, 2021  
Doctorate, Doctorate, Kocaeli Üniversitesi, January, 2021  
Post Graduate, Post Graduate, Kocaeli Üniversitesi, August, 2020  
Associate Professor Exam, Associate Professor Exam, Üniversitelerarası Kurul, March, 2020  
Doctoral Examination, Doctoral Examination, İstanbul Teknik Üniversitesi, December, 2019  
Doctoral Examination, Doctoral Examination, Kocaeli Üniversitesi, May, 2019  
Appointment to Academic Staff-Professorship, Appointment Academic Staff, İstanbul Teknik Üniversitesi, January, 2019  
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Kocaeli Üniversitesi, November, 2018  
Doctorate, Doktora Tez Jürisi, İstanbul Teknik Üniversitesi, July, 2018  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, İstanbul Teknik Üniversitesi, June, 2018  
Doctorate, Doctorate, Kocaeli Üniversitesi, June, 2017  
Post Graduate, Yüksek Lisans Tez Jürisi, İstanbul Teknik Üniversitesi, May, 2015  
Doctorate, Doktora Tez Jürisi, İstanbul Teknik Üniversitesi, March, 2015  
Doctorate, Doktora Tez Jürisi, Sakarya Üniversitesi, November, 2013  
Doctorate, Doctorate, Sakarya Üniversitesi, February, 2013  
Doctorate, Doctorate, Kocaeli Üniversitesi, May, 2007  
Doctorate, Doctorate, Kocaeli Üniversitesi, May, 2006  
Doctorate, Doctorate, Kocaeli Üniversitesi, May, 2006

## Published journal articles indexed by SCI, SSCI, and AHCI

1. **Envelope based symmetrical fault detection during power swing for series compensated lines**  
Çapar A., Basa Arsoy A.

- ELECTRICAL ENGINEERING, vol.107, no.1, pp.679-688, 2025 (SCI-Expanded)
- II. **Signal Envelope-Based Adaptive Power Swing Blocking**  
Çapar A., Basa Arsoy A.  
ELECTRIC POWER COMPONENTS AND SYSTEMS, 2024 (SCI-Expanded)
- III. **The random varying loads and their impacts on the performance of smart grids**  
Iqteit N. A., BASA ARSOY A., ÇAKIR B.  
ELECTRIC POWER SYSTEMS RESEARCH, vol.209, 2022 (SCI-Expanded)
- IV. **A time-varying load-based analytical approach for DG optimization in the distribution network**  
Iqteit N. A., Basa Arsoy A., Çakır B.  
INTERNATIONAL TRANSACTIONS ON ELECTRICAL ENERGY SYSTEMS, vol.29, 2019 (SCI-Expanded)
- V. **Application of STATCOM-supercapacitor for low-voltage ride-through capability in DFIG-based wind farm**  
Dosoglu M. K., Arsoy A., Guvenc U.  
NEURAL COMPUTING & APPLICATIONS, vol.28, pp.2665-2674, 2017 (SCI-Expanded)
- VI. **Transient modeling and analysis of a DFIG based wind farm with supercapacitor energy storage**  
Döşoğlu M. K., Basa Arsoy A.  
INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS, pp.414-421, 2016 (SCI-Expanded)
- VII. **Enhancement of a reduced order doubly fed induction generator model for wind farm transient stability analyses**  
Dosoglu M. K., Basa Arsoy A.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.24, no.4, pp.2124-2134, 2016 (SCI-Expanded)
- VIII. **A performance oriented impedance based fault location algorithm for series compensated transmission lines**  
Capar A., Arsoy Basa A.  
INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS, pp.209-214, 2015 (SCI-Expanded)
- IX. **Evaluation of frequency control application for distributed generation in Turkey**  
KILIÇ L., Arsoy A.  
INTERNATIONAL JOURNAL OF ELECTRICAL POWER & ENERGY SYSTEMS, vol.67, pp.501-509, 2015 (SCI-Expanded)
- X. **Central coordination relay for distribution systems with distributed generation**  
NUROĞLU F. M., Arsoy A.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.23, pp.2150-2160, 2015 (SCI-Expanded)
- XI. **Modeling and simulation of static loads for wind power applications**  
Dosoglu M. K., Arsoy A.  
NEURAL COMPUTING & APPLICATIONS, vol.25, no.5, pp.997-1006, 2014 (SCI-Expanded)
- XII. **Transient stability investigation of a power system with multiple SVC and TCSC**  
DÖŞOĞLU M. K., BASA ARSOY A.  
ENERGY EDUCATION SCIENCE AND TECHNOLOGY PART A-ENERGY SCIENCE AND RESEARCH, vol.29, no.2, pp.1445-1456, 2012 (SCI-Expanded)
- XIII. **A New Approach for Protection and Control of Distribution Systems with DG**  
NUROĞLU F. M., BASA ARSOY A.  
INTERNATIONAL REVIEW OF ELECTRICAL ENGINEERING-IREE, no.5, pp.2350-2356, 2010 (SCI-Expanded)
- XIV. **Detailed modeling of Superconducting Magnetic Energy Storage (SMES) system**  
CHEN L., BASA ARSOY A., LIU Y., PAULO F R.  
IEEE TRANSACTIONS ON POWER DELIVERY, no.2, pp.699-710, 2006 (SCI-Expanded)
- XV. **StatCom-SMES**  
BASA ARSOY A., LIU Y., RİBERÍO P. F., WANG F.  
IEEE INDUSTRY APPLICATIONS MAGAZINE, no.2, pp.21-28, 2003 (SCI-Expanded)
- XVI. **Energy storage systems for advanced power applications**

Riberio P. F., Johnson B., Crow M., Basa Arsoy A., Liu Y.  
PROCEEDINGS OF THE IEEE, no.12, pp.1744-1756, 2001 (SCI-Expanded)

- XVII. **Transient modeling and simulation of a SMES coil and the power electronics interface**  
BASA ARSOY A., WANG Z., LIU Y., RIBEIRO P. F.  
IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY, no.4, pp.4715-4724, 1999 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Power Quality Evaluation of Distributed Generation Systems**  
EKİNCİ B., BASA ARSOY A.  
Turkish Journal of Electrical Power and Energy Systems, vol.1, no.1, pp.12-18, 2021 (Peer-Reviewed Journal)
- II. **Stability analysis of medium sized power plants subjected to grid events**  
KILIÇ L., BASA ARSOY A.  
Dicle Üniversitesi Mühendislik Fakültesi Mühendislik Dergisi, vol.11, no.2, pp.491-498, 2020 (Peer-Reviewed Journal)
- III. **Load Profile-Based Power Loss Estimation for Distribution Networks**  
IQTEIT N., Arsoy A., ÇAKIR B.  
ELECTRICA, vol.18, no.2, pp.275-283, 2018 (ESCI)
- IV. **Dağıtım Sisteminde Harmonik Analizi ve Etkilerinin Dağıtılmış Üretim Kullanılarak Azaltılması**  
PEKER A., YÖRÜKEREN N., BASA ARSOY A.  
Düzce Üniversitesi Bilim ve Teknoloji Dergisi, vol.5, pp.23-33, 2017 (Peer-Reviewed Journal)
- V. **Dağıtılmış Üretim Kaynağı İçeren Dağıtım Sistemlerinde Sürekli Durum ve Kısa Devre Analizi**  
NUROĞLU F. M., BASA ARSOY A.  
Electrotech 3e, pp.104, 2009 (Non Peer-Reviewed Journal)
- VI. **Enerji Kalitesinin İyileştirilmesinde Kojenerasyon Katkısı**  
KILIÇ L., BASA ARSOY A.  
Electrotech 3e, pp.158-164, 2008 (Non Peer-Reviewed Journal)
- VII. **Simulation of the effects of SMES on FACTS performance**  
Arsoy A., Liu Y., Ribeiro P. F.  
Proceedings of the IEEE Power Engineering Society Transmission and Distribution Conference, vol.1, pp.502-505, 2002 (Scopus)

## Papers Published in Refereed Scientific Meetings

- I. **Power Quality Assessment of Distributed Generation**  
Ekinci B., Basa Arsoy A.  
Elektrik Elektronik ve Biyomedikal Mühendisliği Konferansı 2020, Bursa, Turkey, 26 - 28 November 2020, pp.1-5
- II. **IEEE 1584 Standardının Eski ve Güncel Versiyonuna Göre Karşılaştırmalı Ark Flaş Analizi**  
AYDOĞAN V., BASA ARSOY A.  
III. Uluslararası Mühendislik Fen Bilimleri ve Mimarlık Sempozyumu, Kocaeli, Turkey, 16 April 2020
- III. **Performance Evaluation of Power Swing Blocking in Compensated Transmission Lines**  
Çapar A., Unverdi E., Basa Arsoy A.  
12th International Conference on Computer and Electrical Engineering (ICCEE), Delft, Netherlands, 6 - 08 November 2019
- IV. **Evaluation of Distributed Generation Systems with Power Quality Indices**  
Ekinci B., BASA ARSOY A.  
12th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 26 - 28 November 2020, pp.30-34
- V. **Statistical analysis of power quality events in the connection point of industrial plants: An outlook to**

**power quality intensity of Turkish grid system**

Kılıç L., Basa Arsoy A., Özcan M., Nuroğlu F. M.

Şişecam International Glass Conference combined with 34th Şişecam Glass Symposium, İstanbul, Turkey, 21 - 22 November 2019

- VI. **Performance Evaluation of Power Swing Blocking in Compensated Transmission Lines**  
Çapar A., Ünverdi E., Basa Arsoy A.  
The 12th International Conference on Computer and Electrical Engineering (ICCEE 2019), Amsterdam, Netherlands, 6 - 08 November 2019
- VII. **İletim Hattı Modellerinin Güç Salınımları Benzetiminde Etkileri**  
ÇAPAR A., ÜNVERDİ E., BASA ARSOY A.  
ELECO 2018, Turkey, 30 November - 01 December 2018
- VIII. **Özdeğer Analiz Tekniği ile Güç sistemlerindeki Senkronaltı Rezonansın İncelenmesi**  
ÜNVERDİ E., ÇAPAR A., BASA ARSOY A.  
ELECO 2018, Turkey, 30 November - 01 December 2018
- IX. **Assessment of sub-synchronous resonance analysis techniques in series compensated line**  
Unverdi Aglar E., Çapar A., Basa Arsoy A.  
2nd International Symposium on Computer Science and Intelligent Control, ISCSIC 2018, Stockholm, Sweden, 21 - 23 September 2018
- X. **Evaluating conventional power swing blocking methods**  
Çapar A., Unverdi Aglar E., Basa Arsoy A.  
2nd International Symposium on Computer Science and Intelligent Control, ISCSIC 2018, Stockholm, Sweden, 21 - 23 September 2018
- XI. **ANN Fault Location Algorithms with High Speed Training**  
Çapar A., Basa Arsoy A.  
ELECO 2017, Bursa, Turkey, 30 November - 02 December 2017
- XII. **A Simple Method to Estimate Power Losses in Distribution Networks**  
IQTEIT N., BASA ARSOY A., ÇAKIR B.  
ELECO 2017, Bursa, Turkey, 30 November - 02 December 2017, pp.135-140
- XIII. **Effects of Distributed Generation on Overcurrent Relay Coordination and An Adaptive Protection Scheme**  
İLİK S. C., BASA ARSOY A.  
2017 International Conference on Substantial Energy Engineering (ICSEE 2017), Perth, Australia, 12 - 14 June 2017
- XIV. **Şebeke Olaylarının Orta güçteki Santrallerin Devrede Kalma Durumlarına Etkisinin İncelenmesi**  
KILIÇ L., BASA ARSOY A.  
2016 Güç Sistemleri Konferansı, İstanbul, Turkey, 15 - 16 November 2016
- XV. **Assessment of Integral Based Fault Detection Methods for Power System Relaying**  
ÜNVERDİ E., TEKDEMİR İ. G., BASA ARSOY A.  
9th International Conference on Electrical and Electronics Engineering, Bursa, Turkey, 26 - 28 November 2015
- XVI. **Evaluating Accuracy of Fault Location Algorithms Based on Terminal Current and Voltage Data**  
ÇAPAR A., BASA ARSOY A.  
2014 International Conference on Electrical and Electronics Engineering, Antalya, Turkey, 21 - 23 April 2014
- XVII. **Transient Behaviors of Full and Reduced Order Doubly Fed Induction Generator Models in a Grid Integrated Wind Farm**  
DÖŞOĞLU M. K., BASA ARSOY A.  
3rd International Symposium on Innovative Technologies in Engineering and Science, Valencia, Spain, 3 June - 05 November 2015
- XVIII. **Kojenerasyon Santrallerinde Yük Atma Uygulamaları**  
KILIÇ L., BASA ARSOY A., NUROĞLU F. M.  
21. Uluslararası Enerji ve Çevre Konferansı ve Fuarı, İstanbul, Turkey, 6 May - 08 June 2015, pp.95-98
- XIX. **Özel Sektör Elektrik Santrallerinde 154kV Şalt Bakımlarının Standartlaştırılması**

KILIÇ L., BASA ARSOY A., NUROĞLU F. M.

21. Uluslararası Enerji ve Çevre Konferansı ve Fuarı, İstanbul, Turkey, 6 - 08 May 2015, pp.99-102

- XX. **Orta Gerilimden Bağlanan Özel Sektör Elektrik Santrallerinin Şebeke Güvenilirliğinin Arttırılmasındaki Rolünün İncelenmesi**  
KILIÇ L., BASA ARSOY A.  
2015 Enerji Verimliliği ve Kalitesi Sempozyumu, Sakarya, Turkey, 4 - 06 June 2015
- XXI. **Orta Gerilim Şebeke Olaylarının Tüketici Noktasında Karşılaştırmalı İncelenmesi**  
KILIÇ L., BASA ARSOY A.  
2015 Enerji Verimliliği ve Kalitesi Sempozyumu, Sakarya, Turkey, 4 - 06 June 2015
- XXII. **GERİLİM ÇÖKMESİ KAYNAĞININ YERİNİ BELİRLEMEDE KULLANILAN YÖNTEMLERİN İNCELENMESİ**  
KESKİN Y. E., ÇAKIR B., BASA ARSOY A., TEKDEMİR İ. G.  
ENERJİ VERİMLİLİĞİ VE KALİTESİ SEMPOZYUMU, Turkey, 23 May 2015
- XXIII. **Dağıtılmış Üretim ile İstemli Ada Çalışması**  
CANSEVER M., BASA ARSOY A.  
2014 Elektrik, Elektronik, Bilgisayar ve Biyomedikal Mühendisliği Sempozyumu, Bursa, Turkey, 27 - 29 November 2014
- XXIV. **Impact of Coupling Breakers in a Power Plant Fault Analysis**  
KILIÇ L., BASA ARSOY A.  
8th International Conference on Electrical and Electronics Engineering, Bursa, Turkey, 28 - 30 November 2013, pp.581-585
- XXV. **Analysis of Reduced Order Model Based on Doubly Fed Induction Generators during Different Fault Times**  
DÖŞOĞLU M. K., BASA ARSOY A.  
8th International Conference on Electrical and Electronics Engineering, Bursa, Turkey, 28 - 30 November 2013, pp.215-219
- XXVI. **Provision Ancillary Services by Connection of Power Plants at Medium Voltage**  
KILIÇ L., BASA ARSOY A.  
7th Gas Turbine Conference, London, Canada, 5 - 06 November 2013
- XXVII. **A Reliability Study of Medium Voltage Grid with Private Sector Power Plants**  
KILIÇ L., BASA ARSOY A.  
The 3rd International Conference on Electric Power and Energy Conversion System, İstanbul, Turkey, 2 - 04 October 2013
- XXVIII. **Uyarlamalı Medyan Filtresi ve Birikimli Toplam Yöntemleri ile Bir Güç Sisteminde Arıza Tespitinin İncelenmesi**  
TEKDEMİR İ. G., BASA ARSOY A., ALBOYACI B., KESKİN Y. E.  
2013 Enerji Verimliliği ve Kalitesi Sempozyumu, Kocaeli, Turkey, 23 - 24 May 2013
- XXIX. **Tam ve Azaltılmış Derece Modelli Rüzgar Santrallerinin Geçici Durum Davranışı**  
DÖŞOĞLU M. K., BASA ARSOY A.  
2013 Enerji Verimliliği ve Kalitesi Sempozyumu, Kocaeli, Turkey, 23 - 24 May 2013
- XXX. **Gerilim Çökmesi Kaynağının Yerini Belirlemede Kullanılan Yöntemlerin İncelenmesi**  
KESKİN Y. E., BASA ARSOY A., ÇAKIR B., TEKDEMİR İ. G.  
2013 Enerji Verimliliği ve Kalitesi Sempozyumu, Kocaeli, Turkey, 23 - 24 May 2013
- XXXI. **Transformatör Enerjilendirme Akımının Etkilerini Azaltıcı Yöntemlerin İncelenmesi**  
YALÇIN K., BASA ARSOY A.  
2012 Elektrik-Elektronik ve Bilgisayar Mühendisliği Sempozyumu, Bursa, Turkey, 29 November - 01 December 2012
- XXXII. **Dengesiz Güç Sistemlerinde Dağıtılmış Üretim**  
SEZGİN M. S., BASA ARSOY A.  
2012 Elektrik-Elektronik ve Bilgisayar Mühendisliği Sempozyumu, Bursa, Turkey, 29 November - 01 December 2012
- XXXIII. **Load Frequency Control of a Single Area Power System using Gravitational Search Algorithm**

- DUMAN S., BASA ARSOY A., YÖRÜKEREN N.  
IEEE Conferences, INISTA 2012, International Symposium on INnovations in Intelligent Systems and Applications, 2-4 July Trabzon. (2012), 2 - 04 July 2012
- XXXIV. **Solution of Economic Dispatch Problem using Gravitational Search Algorithm Bursa**  
DUMAN S., BASA ARSOY A., YÖRÜKEREN N.  
7th International Conference on Electrical and Electronics Engineering (ELECO 2011), 1 - 04 December 2011, pp.54-59
- XXXV. **Solution of Economic Dispatch Problem using Gravitational Search Algorithm**  
DUMAN S., BASA ARSOY A., YÖRÜKEREN N.  
7th International Conference on Electrical and Electronics Engineering, Bursa, Turkey, 1 - 04 December 2011
- XXXVI. **Investigation of Transient Stability of Multi Machine Power Systems with Multiple UPFC**  
DÖŞOĞLU M. K., BASA ARSOY A.  
7th International Conference on Electrical and Electronics Engineering, ELECO 2011, Bursa, Turkey, 1 - 04 December 2011
- XXXVII. **Investigation of Various Voltage Sag Analyses in Wind Farm through SVC**  
DÖŞOĞLU M. K., BASA ARSOY A.  
7th International Conference on Electrical and Electronics Engineering, Bursa, Turkey, 1 - 04 December 2011
- XXXVIII. **Şebekede Yaşanan Bozucu Elektriksel Olayların Dağıtılmış Üretim Sistemleri Üzerindeki Etkilerinin İncelenmesi**  
KILIÇ L., BASA ARSOY A.  
2011 Enerji Verimliliği ve Kalitesi Sempozyumu-EVK 2011, Kocaeli, Turkey, 12 - 13 May 2011
- XXXIX. **Rüzgar Santralinde Geçici Durum Etkilerinin İncelenmesi**  
DÖŞOĞLU M. K., BASA ARSOY A.  
2011 Enerji Verimliliği ve Kalitesi Sempozyumu, Kocaeli, Turkey, 12 - 13 May 2011
- XL. **Dağıtılmış Üretim Sistemlerinin Verimli Çalışmasına Yönelik Bir Yaklaşım**  
NUROĞLU F. M., BASA ARSOY A.  
2009 Enerji Verimliliği ve Kalitesi Sempozyumu, Kocaeli, Turkey, 21 - 22 May 2009
- XLI. **Dağıtılmış Üretim Kaynağı İçeren Dağıtım Sistemlerinde Sürekli Durum ve Kısa Devre Analizi**  
NUROĞLU F. M., BASA ARSOY A.  
2008 Elektrik-Elektronik ve Bilgisayar Mühendisliği Sempozyumu, Bursa, Turkey, 26 - 30 November 2008
- XLII. **Voltage Profile and Short Circuit Analysis in Distribution Systems with DG**  
NUROĞLU F. M., BASA ARSOY A.  
"EPEC 2008, Electric Power and Energy Conference, Vancouver, Canada, 6 - 07 October 2008
- XLIII. **Kısa Süreli Gerilim Azalmaları için Stokastik Yaklaşımlar**  
ALBOYACI B., BASA ARSOY A., İNAN E.  
2007 Enerji Verimliliği ve Kalitesi Sempozyumu, Kocaeli, Turkey, 17 - 18 May 2007
- XLIV. **Dağıtılmış Üretim Sistemlerinin Güvenilirlik İndisleri Üzerindeki Etkisi**  
KAZDALOĞLU A., BASA ARSOY A.  
2006 Elektrik-Elektronik ve Bilgisayar Mühendisliği Sempozyumu, Bursa, Turkey, 6 - 10 December 2006
- XLV. **Gerilim Düşmesi Süresinin Transformator Mıknatıslanma Akım Üzerindeki Etkileri**  
Şengül M., Öztürk F. S., Basa Arsoy A., Gencer Ö. Ö., İnan E., Karaarslan K.  
Enerji Verimliliği ve Kalitesi Sempozyumu, EVK, Kocaeli, Turkey, 17 - 18 May 2005, pp.102-105
- XLVI. **Enerji İletim Hatlarındaki Enerji Kalitesini Düzenleyen Klasik ve Modern Kontrol Yapıları**  
ALBOYACI B., ÇETİNKAYA H. B., ÖZTÜRK S., BASA ARSOY A., ŞENGÜL KARAARSLAN M., TÜRKER T.  
Enerji Verimliliği ve Kalitesi Sempozyumu, Kocaeli, Turkey, 17 - 18 May 2005
- XLVII. **Gerilim Düşmesi Süresinin Transformator Mıknatıslanma Akımı Üzerindeki Etkileri**  
ŞENGÜL M., ÖZTÜRK S., BASA ARSOY A., GENÇER Ö. Ö., İNAN E., KARAARSLAN K.  
Enerji Verimliliği ve Kalitesi Sempozyumu, Kocaeli, Turkey, 17 - 18 May 2005
- XLVIII. **Harmoniklerin Endüksiyon Motor Performansı Üzerindeki Etkilerinin İncelenmesi**  
GENÇER Ö. Ö., BASA ARSOY A., ÖZTÜRK S.  
Enerji Verimliliği ve Kalitesi Sempozyumu, Kocaeli, Turkey, 17 - 18 May 2005

- XLIX. Sürekli Çalışmada Faz Kaydırıcı Transformatörler**  
ÇETİNKAYA H. B., BASA ARSOY A., ALBOYACI B.  
2004 Elektrik-Elektronik ve Bilgisayar Mühendisliği Sempozyumu, Bursa, Turkey, 8 - 12 December 2004
- L. Dağıtım Sistemlerinde Dağıtılmış Üretim**  
BASA ARSOY A., PERDAHÇI C.  
2004 Elektrik-Elektronik ve Bilgisayar Mühendisliği Sempozyumu, Bursa, Turkey, 8 - 12 December 2004
- LI. Simulation of the Effects of SMES on FACTS Performance**  
BASA ARSOY A., LİU Y., RİBERİO P. F.  
Proceedings of the 2002 IEEE PES Winter Meeting, New-York, United States Of America, 27 - 31 January 2002
- LII. Computer Relaying for Transmission Lines**  
BASA ARSOY A.  
2th International Conference on Electrical and Electronics Engineering, Bursa, Turkey, 7 - 11 December 2001
- LIII. Güç Sistemlerinde Enerji Depolama**  
BASA ARSOY A., KUŞDOĞAN Ş.  
Elektrik Elektronik ve Bilgisayar Mühendisliği 9. Ulusal Kongresi, Kocaeli, Turkey, 19 - 21 September 2001
- LIV. Energy Storage Systems for the Future**  
KUŞDOĞAN Ş., BASA ARSOY A.  
24rd International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems, İstanbul, Turkey, 4 - 07 July 2001
- LV. A Comparison of the Dynamic Performance of FACTS with Energy Storage to a Unified Power Flow Controller**  
ZHANG L., SHEN C., YANG Z., CROW M., BASA ARSOY A., LİU Y., ATCİTTY S.  
Proceedings of the 2001 IEEE PES Winter Meeting, Columbus, United States Of America, 28 - 01 February 2001, pp.611-616
- LVI. Dynamic Performance of a Static Synchronous Compensator with Energy Storage**  
Liu Y., Basa Arsoy A., Chen S., Yang Z., Crow M. L., Ribeiro P. F.  
Proceedings of the 2001 IEEE PES Winter Meeting, Ohio, United States Of America, 28 - 31 January 2001, pp.605-610
- LVII. Statik Senkron Kompanzator (StatCOM) ve Süperiletken Magnetik Enerji Saklanması (SMES) Sisteminin Entegre Edilmesi**  
BASA ARSOY A., KURT G., KUŞDOĞAN Ş.  
Elektrik-Elektronik-Bilgisayar Mühendisliği Sempozyumu, Turkey, 8 - 12 November 2000
- LVIII. Süperiletken Magnetik Enerji Depolama Sisteminin İncelenmesi ve Teknolojik Değerlendirmesi**  
KUŞDOĞAN Ş., KURT G., BASA ARSOY A.  
Elektrik-Elektronik-Bilgisayar Mühendisliği Sempozyumu, Turkey, 8 - 12 November 2000
- LIX. Süperiletken Magnetik Enerji Depolama Sistemlerinin İncelenmesi ve Teknolojik Değerlendirilmesi**  
KUŞDOĞAN Ş., KURT G., BASA ARSOY A.  
Elektrik-Elektronik ve Bilgisayar Mühendisliği Sempozyumu, Bursa, Turkey, 8 - 12 November 2000
- LX. Statik Senkron Kompanzator ile Süperiletken Manyetik Enerji Saklanım Sistemlerinin Entegrasyonu**  
Basa Arsoy A., Kurt G., Kuşdoğan Ş.  
Elektrik-Elektronik ve Bilgisayar Mühendisliği Sempozyumu, Kocaeli, Turkey, 8 - 12 November 2000
- LXI. The impact of energy storage on the dynamic performance of a static synchronous compensator**  
Arsoy A., Liu Y., Ribeiro P., Xu W.  
3rd International Power Electronics and Motion Control Conference (IPEMC 2000), Beijing, China, 15 - 18 August 2000, pp.519-524
- LXII. Power converter and SMES in controlling power system dynamics**  
Arsoy A., Liu Y., Ribeiro P., Wang F.  
35th IAS Annual Meeting and World Conference on Industrial Applications of Electrical Energy, Rome, Italy, 8 - 12 October 2000, pp.2051-2057
- LXIII. Transmission power quality benefits realized by a SMES-FACTS controller**  
Ribeiro P., Arsoy A., LİU Y.

9th International Conference on Harmonics and Quality of Power, Florida, United States Of America, 1 - 04 October 2000, pp.307-312

**LXIV. An Investigation of the Dynamic Performance of a Static Synchronous Compensator with Superconducting Magnetic Energy Storage**

BASA ARSOY A., LIU Y., RIBEIRO P.

1999 Annual Power Electronics Seminar at Virginia Tech, Blacksburg, United States Of America, 1 - 02 September 1999, pp.401-405

**LXV. Electromagnetic Transient Interaction Between a SMES Coil and the Power Electronics Interface**

BASA ARSOY A., WANG Z., LIU Y., RIBEIRO P.

16th Annual Virginia Power Electronics Center Seminar, Blacksburg, United States Of America, 1 - 02 September 1998

**LXVI. A Large Scale Implementation of a Steady State Voltage Security Indicator**

BASA ARSOY A., CROW M.

1996 North American Power Symposium, Boston, United States Of America, 1 - 02 November 1996

## Episodes in the Encyclopedia

**I. Encyclopedia of Life Support Systems EOLSS Physical Sciences Engineering and Technology Sources**

RIBEIRO P., JOHNSON B., CROW M., BASA ARSOY A., STEURER M., LIU Y.

EOLSS Publisher, pp., 2005

## Supported Projects

Basa Arsoy A., Alboyacı B., Project Supported by Higher Education Institutions, Elektrik Tesisleri Laboratuvarı Alt Yapı Destekleme Projesi, 2012 - 2014

KARAARSLAN K., BASA ARSOY A., TUBITAK Project, Dağıtılmış Elektrik Üretim Sistemlerinde Kontrol Koruma Güvenilirlik ve Kalite Fonksiyonlarının İncelenmesi, 2004 - 2009

Basa Arsoy A., Öztürk S., Project Supported by Higher Education Institutions, Güç Sistemlerinde Gerilim Bozulmalarının Cihazlara Etkisinin Modellenmesi ve Standartlarının Oluşturulması , 2003 - 2005

Liu Y., Project Supported by Public Organizations in Other Countries, the electromagnetic interactions between a superconducting coil and the power electronics interface for FACTS/Energy storage applications , 1998 - 2000

Crow M. L., Project Supported by Private Organizations in Other Countries, Steady State Voltage Security Assessment, 1995 - 1995

## Peer Reviews in Scientific Publications

ELEKTRİK-ELEKTRONİK ve BİYOMEDİKAL MÜHENDİSLİĞİ KONFERANSI, Conference Paper (Full Text), November 2024

INTERNATIONAL JOURNAL OF ELECTRICAL POWER AND ENERGY SYSTEMS, Journal Indexed in SCI-E, October 2024

ELECTRIC POWER SYSTEMS RESEARCH, Journal Indexed in SCI-E, July 2024

14th INTERNATIONAL CONFERENCE ON ELECTRICAL AND ELECTRONICS ENGINEERING, Conference Paper (Full Text), November 2023

ELECTRIC POWER SYSTEMS RESEARCH, SCI Journal, October 2023

INTERNATIONAL JOURNAL OF ELECTRICAL POWER AND ENERGY SYSTEMS, SCI Journal, August 2023

ELECTRIC POWER SYSTEMS RESEARCH, SCI Journal, July 2023

INTERNATIONAL JOURNAL OF ELECTRICAL POWER AND ENERGY SYSTEMS, SCI Journal, April 2023

2023 IEEE PES GT&D Mayıs 23-25, Conference Paper (Full Text), February 2023

IET GENERATION, TRANSMISSION AND DISTRIBUTION, SCI Journal, December 2022

ELECO 2022, Conference Paper (Full Text), October 2022

INTERNATIONAL JOURNAL OF ELECTRICAL POWER AND ENERGY SYSTEMS, SCI Journal, September 2022  
IET GENERATION, TRANSMISSION AND DISTRIBUTION, SCI Journal, April 2022  
INTERNATIONAL JOURNAL OF ELECTRICAL POWER AND ENERGY SYSTEMS, SCI Journal, March 2022

## Scientific Project Refereeing

Technopark, November 2024

Technopark, July 2024

Technopark, July 2024

Technopark, January 2024

Technopark, December 2023

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, November 2023

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, November 2023

Project Supported by Other Official Institutions, September 2023

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, June 2023

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, May 2023

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, May 2023

Technopark, January 2023

TUBITAK Project, 2219 - Yurt Dışı Doktora Sonrası Araştırma Burs Programı, October 2021

TUBITAK Project, 2219 - Yurt Dışı Doktora Sonrası Araştırma Burs Programı, October 2021

TUBITAK Project, 2219 - Yurt Dışı Doktora Sonrası Araştırma Burs Programı, October 2021

TUBITAK Project, 2219 - Yurt Dışı Doktora Sonrası Araştırma Burs Programı, October 2021

TUBITAK Project, 3001 - Initial R&D Projects Support Program, March 2021

TUBITAK Project, 1002 - Quick Support Program, January 2021

TUBITAK Project, 1002 - Quick Support Program, January 2021

TUBITAK Project, 1501 - Industry R & D Projects Support Program, October 2019

TUBITAK Project, 1501 - Industry R & D Projects Support Program, February 2019

## Tasks In Event Organizations

Basa Arsoy A., ELECO 2018, Scientific Congress, Bursa, Turkey, Aralık 2018

Basa Arsoy A., 5. Uluslararası İstanbul Akıllı Şebekeler ve Akıllı Şehirler Kongre ve Fuarı , Scientific Congress, İstanbul, Turkey, Nisan 2018

Basa Arsoy A., ELECO 2016, Scientific Congress, Bursa, Turkey, Aralık 2016

Basa Arsoy A., ELECO 2014, Scientific Congress, Bursa, Turkey, Kasım 2014

Basa Arsoy A., ELECO 2012, Scientific Congress, Bursa, Turkey, Aralık 2012

Basa Arsoy A., ELECO 2004, Scientific Congress, Bursa, Turkey, Aralık 2004

## Metrics

Publication: 95

Citation (WoS): 919

Citation (Scopus): 1412

H-Index (WoS): 8

H-Index (Scopus): 10

## Congress and Symposium Activities

Tubitak Kasım 2018 EEEAG Paneli, Panelists, Ankara, Turkey, 2018

Tubitak Haziran 2018 EEEAG Paneli, Panelists, Ankara, Turkey, 2018