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A. Ümit Keskin received his BSEE degree from Bogazici University in 1978, MSEE from Yildiz Technical University (1980) and PhD degree from the Institute of Science and Technology, Istanbul Technical University (1984). In 1985, he joined Siemens AG, Turkey. He was engaged in the field of Medical Instrumentation throughout his professional career. Since 2002, he is a staff member of Yeditepe University, Faculty of Engineering. His main research interests are applied computational methods, analog circuits, systems and signal processing, transducers, medical instrumentation theory and its applications.

List of Publications

Books:

-Ali Ümit Keskin , “Boundary Value Problems for Engineers, with MATLAB Solutions”, Springer, 2019. 550 pages.

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-Ali Ümit Keskin , “Ordinary Differential Equations for Engineers, Problems with MATLAB Solutions”, Springer, 2019. 786 pages.

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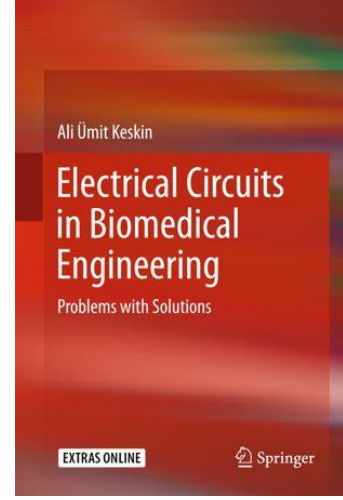
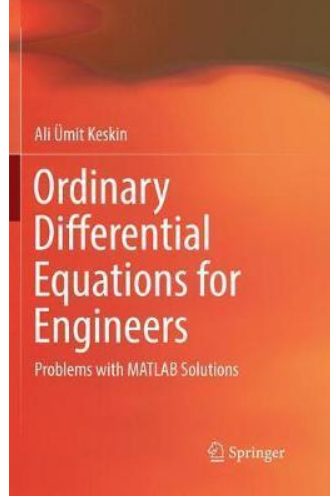
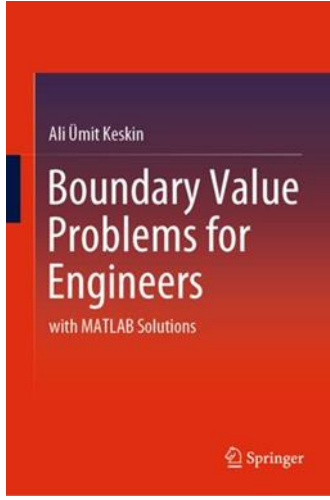
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-Ali Ümit Keskin, “Electrical Circuits in Biomedical Engineering, Problems with Solutions”, Springer, 2017. 810 pages.

ISBN: 978-3-319-55100-5 (Print, Hard Cover)

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Patents:

-Erhan AYŞAN, Ali Ümit KESKİN; TP 2019/00613, Cerrahi girişim yapılmaksızın, ince bağırsak absorpsiyon alanını ayarlanabilir bir şekilde daraltan yeni bir obezite tedavi yöntemi (A new obesity treatment method that constricts small intestinal absorption area in adjustable manner without surgical intervention); Tescil Tarihi (Granted on): 21.03.2022

-Ali Umit KESKIN, Andaç HAMAMCI, EP3612963B1, “Biochemical analyser based on a machine learning algorithm using test strips and a smart-device”. Filed 2017-04-18, Granted 2021-05-12, Published 2021-05-12.

-Ali Umit KESKIN, US10382011B2, “Grounded capacitance multipliers with electronic tuning possibility using single current feedback amplifier”, Filed 2017-05-31, Granted 2019-08-13, Published 2019-08-13

-Ali Umit KESKIN, EP3309525B1, “Analog circuit for wide range sensor linearization optimal in uniform norm”, Filed 2017-02-17, Granted 2019-02-06, Published 2019-02-06

-Ali Ümit KESKIN, TR 2016 14439 B, “Geniş Aralıkta Sensör Doğrusallaştırmaya Yönelik Düzgün Normda Optimal Analog Devre”, Granted: 21.01.2019.

- Ali Ümit KESKIN, TR 2009 05369 A1, "Level Sensing and Monitoring Device for Cryogenic Containers", Granted: 21.01.2011.

International Publications (In Science Citation Index / Expanded):

1. Keskin AÜ, Dalan AB, Çıragil P, Topkaya AE. Investigation of SARS-CoV-2-Specific Humoral and Cellular Immunity Values in Health Care Workers with COVID-19 Disease and Administered with COVID-19 Vaccine. Mikrobiyol Bul 2022;56(3):480-492.[\(PDF\)](#)

2. Ali Umit Keskin; Pinar Ciragil; Aynur Eren Topkaya, "Clinical Accuracy of Instrument-Read SARS-CoV-2 Antigen Rapid Diagnostic Tests (Ag-IRRDTs)", *International Journal of Microbiology*, Volume 2022, Article ID 9489067, doi: 10.1155/2022/9489067. [\(PDF\)](#)
3. Topkaya AE, Keskin AÜ, Dalan AB, Çıragil P. The Second Shot of CoronaVac Vaccine May Cause Reduction of Antibody Levels in People who Previously had COVID-19. *Mikrobiyol. Bul.* 2021;53(2):139-141. [\(PDF\)](#)
4. Keskin AU, Bolukcu S, Ciragil P, Topkaya AE. SARS-CoV-2 specific antibody responses after third CoronaVac or BNT162b2 vaccine following two-dose CoronaVac vaccine regimen. *J Med Virol.* 2022, Jan; 94(1):39-41. doi: 10.1002/jmv.27350. [\(PDF\)](#)
5. Kipritci Z, Keskin AÜ, Çıragil P, Topkaya AE. Evaluation of a Visually-Read Rapid Antigen Test Kit (SGA V-Chek) for Detection of SARS-CoV-2 Virus, *Mikrobiyol Bul.* 2021 Jul;55(3):461-464. doi: 10.5578/mb.20219815. [\(PDF\)](#)
6. Dalibor Biolenk, Jiri Vavra, Ali Ümit Keskin, "CDTA-Based Capacitance Multipliers". *Circuits, Systems, and Signal Processing.* 38: (4) pp. 1466-1481, 2019. [\(PDF\)](#)
7. Chunhua Wang, Jing Xu, Ali Ümit Keskin, Sichun Du and Qiuqing Zhang , "A new current-mode current controlled SIMO-type universal filter", *AEU-International Journal of Electronics and Communications*, Vol.: 65 Issue: 3 Pages: 231-234 , March 2011 [\(PDF\)](#)
8. Dalibor Biolenk, Ali Umit Keskin, Viera Biolkova, "Grounded capacitor current mode SRCO using single modified CDTA", *IET Circuits, Devices & Systems*, Vol. 4, Iss. 6, pp. 496-502,2010, (doi: 10.1049/iet-cds.2009.0330) [\(PDF\)](#)
9. Wang Chunhua , Ali Umit Keskin, Leng Yang, Zhang Qiuqing, Du Sichun, "Minimum Configuration Insensitive Multifunctional Current-Mode Biquad Using Current Conveyors and All-Grounded Passive Components", *Radioengineering*, vol.19, No:1, pp.178-184, April 2010 [\(PDF\)](#)
10. Ali Umit Keskin, Comments on the "Sensor calibration and compensation using artificial neural network", *ISA Transactions - (Instrumentation, Systems, and Automation, Elsevier)*, Vol. 48, Issue 2, pp: 143-144, April 2009. [\(PDF\)](#)
11. Ali Ümit Keskin, Kirat Pal, and Erhan Hancıoğlu, "Resistorless First Order All-pass Filter with Electronic Tuning", *AEU -Int. J. Electronics and Communications*, 62, (4) , pp. 304-306, 2008. [\(PDF\)](#)
12. Dalibor Biolenk, Erhan Hancıoğlu, Ali Ümit Keskin, "High-performance current differencing transconductance amplifier and its application in precision current-mode rectification", *AEU-Int. J. Electronics and Communications*, 62, (2) , pp.92-96, 2008. [\(PDF\)](#)
13. Ali Ümit Keskin, "Effects of PUVA Treatment on the Optical Properties of Blood/Tissue Storage Bags During Extracorporeal Photochemotherapy", *Transfusion and Apheresis Science*, vol 37, pp:139-143, 2007 [\(PDF\)](#)
14. Pradeep Kumar, Ali Umit Keskin, Kirat Pal, "Wide-band resistorless all-pass sections with single element tuning", *International Journal of Electronics*, 94 (6) pp.597-604, 2007. [\(PDF\)](#)
15. Ali Ümit Keskin and Ugur Cam, "Insensitive high-output impedance minimum configuration SITO-type current-mode biquad using dual-output current conveyors and grounded passive components", *AEU-Int. J. Electronics and Communications*, Vol.61, pp:341-344, 2007. [\(PDF\)](#)
16. Selçuk Kılınç, Ali Ümit Keskin, and Uğur Çam, "Cascadable Voltage-Mode Multifunction Biquad Employing Single OTRA". *Frequenz* vol.61, No: 3-4 pp.84-86, 2007. [\(PDF\)](#)

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18. Ali Ümit Keskin, Dalibor Biolk, "Current mode quadrature oscillator using Current Differencing Transconductance Amplifiers (CDTA)", *IEE Proceedings on Circuits, Devices and Systems*, Vol.153, No.3, pp:214-218, 2006. [\(PDF\)](#)
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20. Berna Okudan, Ali Ümit Keskin, Asım Aydın, Gökhan Cesur, Selçuk Çömlekçi, Harun Süslü, "DEXA analysis on the bones of intrauterine and neonatal rats exposed to static and 50Hz electrical fields", *Bioelectromagnetics*, Vol. 27, No:7, pp: 589-592, 2006. [\(PDF\)](#)
21. Ali Ümit Keskin, "Design of a PID controller circuit employing CDBAs", *International Journal of Electrical Engineering Education*, Vol.43, (1), pp:48-56, Jan 2006. [\(PDF\)](#)
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26. Ali Ümit Keskin, "Voltage mode notch filters using single CDBA", *Frequenz (Journal of RF-Engineering and Telecommunications)*, Vol. 59, (9-10), pp:225-228, 2005. [\(PDF\)](#)
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28. Ali Ümit Keskin, "Voltage-mode High-Q Band-pass Filters and Oscillators Employing Single CDBA and Minimum Number of Components", *International Journal of Electronics*, Vol.92, (8), pp:479-487, August 2005. [\(PDF\)](#)
29. Ali Ümit Keskin and Erhan Hancıoğlu, "CDBA-based Synthetic Floating Inductance Circuits with Electronic Tuning Properties", *ETRI Journal*, Vol. 27, No. 2, pp: 239-242, April 2005. [\(PDF\)](#)
30. Ali Ümit Keskin, "Single CFA-based NICs with impedance scaling properties", *Journal of Circuits, Systems and Computers*, Vol. 14, (2), pp:195-203, April 2005. [\(PDF\)](#)
31. Ali Ümit Keskin, "A simple Analog Behavioral Model for NTC thermistors including selfheating effect", *Sensors and Actuators-A*, vol. 118-2, pp: 244-247, February 2005. [\(PDF\)](#)
32. Ali Ümit Keskin, Tolga Meriç Yanar, "Steady-state solution of loaded thermistor problems using an electrical equivalent circuit model", *Measurement Science and Technology*, vol. 15, (10), pp: 2163-2169, 2004. [\(PDF\)](#)

33. Ali Ümit Keskin, Fuat Bayrakçeken, "A simple signal processing application in flash spectroscopy", Asian Journal of Spectroscopy, Vol. 8, pp: 63-71, 2004.
34. Ali Ümit Keskin, "A Four Quadrant Analog Multiplier employing single CDBA", Analog Integrated Circuits and Signal Processing, Vol.40 (1), pp: 99-101, July 2004. [\(PDF\)](#)
35. Ali Ümit Keskin, Ali Toker , "A NIC with impedance scaling properties using unity gain cells", Analog Integrated Circuits and Signal Processing, V-41,1, pp. 85-87, October 2004 [\(PDF\)](#)
36. Ali Ümit Keskin, "Cascade approach for the realisation of high order VM filters using single CDBA-based first and second order sections", Frequenz (Journal of RF-Engineering and Telecommunications), Vol. 58, (7-8), pp:188-194, 2004. [\(PDF\)](#)
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42. Ali Ümit Keskin, "Fast computation of zoom-DFT via the Walsh transform", International Journal of Electronics, V.56, No:5, pp: 741-744, 1984. [\(PDF\)](#)
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International Symposium and Congress Presentations:

1. A. Akçe, R. A. Barin, and A. U. Keskin, "Implementation of Single and Double Finger Tapping Tests in Healthy Young Individuals and Evaluation of Results", paper No:26, Medical Technologies Congress, TIPTEKNO'24, 10-12 October 2024, Bodrum, Mugla, TURKEY. [\(PDF\)](#)
2. Sener Deniz, Ali Umit Keskin "Voltage-Mode All-pass Biquads Using Current Differencing Buffered Amplifiers (CDBA)", Proc. of the Fifth Intl. Conf. Advances in Computing, Communication and Information Technology- CCIT 2017, pp: 64-67, 02-03 September, Zurich, SWITZERLAND.
3. Ali Ümit Keskin, Şener Deniz, "Assessment of Fluid Contamination Based on Viscosity Measurements Using a Longitudinally Vibrating Plate", ISER-ICSTEM 2017, pp: 1-4, Crete, GREECE, 8-9 June 2017.
4. Ali Umit Keskin, Feride Sermin Utku, "Rheological Modelling of Bio-fluids Using Moving Coil Transducers", Paper No: ICBES 132, The 3rd World Congress on Biomedical Engineering and Systems (ICBES'16), Budapest, HUNGARY – August 17 – 18, 2016.

5. Omer Alper Yildiz, Gokhan Ertas, Ali Umit Keskin, "A Microcontroller-based Device for Erythrocyte Sedimentation Rate Measurements", BEBI 13, September 17-19, 2013, pp: 33-36, Baltimore, USA (Paper ID 70604-112)
6. Aylin Nuhoglu, Hakan Bozkurt, Ali Ümit Keskin, "Assessment of Electrode-Based Spontaneous Eye Blink Analysis", BEBI 11, August 23-25, 2011, Florence, ITALY (Paper ID 660-157) ([PDF](#))
7. Sehmuz Omer Yasar, Ali Umit Keskin "Wheelchair production in Turkey". National Science Foundation US-Turkish Workshop on Assistive Technology, June 6-8, 2011 Istanbul, TURKEY
8. Onur Deryahanoğlu, Ali Ümit Keskin, Alper Yıldız, "In Patient Safety, Using Medical Device Safely" . Fifth International Conference on Quality in Healthcare Accreditation and Patient Safety, QPS-Antalya 2011, April 13-16, 2011
9. Ali Galip Şipka, Mehmet Ünsal, Emine Kurt, Ali Ümit Keskin. "Failure Modes and Effects Analysis (FMEA) For Processes of Patient and Staff Safety at Yeditepe University Hospital". Fifth International Conference on Quality in Healthcare Accreditation and Patient Safety, QPS-Antalya 2011, April 13-16, 2011
10. Mehmet Ünsal, Ali Ümit Keskin, "Utility Management and Safety at Yeditepe University Hospital", The 2nd International Congress on Quality and Performance in Healthcare Promoting Hospitals and Safety. Antalya, 28th April - 01 May 2010
11. Ali Ümit Keskin, Cihat Koyuncu, "LED-based liquid cryogen level measurement", Second International Conference on Biomedical Electronics and Biomedical Informatics , (BEBI'09), Moscow, RUSSIA, p.161-164, ISBN:978-960-474-110-6, August 20-23, 2009 ([PDF](#))
12. Dalibor Biolek, Viera Biolkova, Ali Umit Keskin "Current mode quadrature oscillator using two CDTAs and two grounded capacitors", Fifth International Conference on System Science and Simulation in Engineering, (ICOSSE '06), Tenerife Canary Islands , SPAIN, December 16-18, 2006. ([PDF](#))
13. Ali Ümit Keskin, Erhan Hancioglu, Hakan Kuntman, "Current Mode KHN-Equivalent Biquad Using Dual-Output Current Conveyors", ELECO 2005, 7-11 December 2005, Bursa, TURKEY.
14. Ali Zeki, Ali Ümit Keskin, Ali Toker, "DXCCII-Based Four-Quadrant Analog Multipliers Using Triode Mosfets", ELECO 2005, 7-11 December 2005, Bursa, TURKEY. ([PDF](#))
15. Deniz Pazarcı, Ali Ümit Keskin, Cevdet Acar, "On The Behavior of The Input Impedance of The Infinite Ladder Network", ELECO 2005, 7-11 December 2005, Bursa, TURKEY.
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17. Ali Ümit Keskin, "Design of Minimum Component Oscillators Using Negative Impedance Approach Based On Different Single Active Elements", 12th IEEE Mediterranean Electrotechnical Conference, pp:83-86, MELECON, 12-15 May 2004, Dubrovnik, CROATIA.
18. Erhan Hancıoğlu, Ali Ümit Keskin, "CMOS based NIC using unity gain cells", The 16th International Conference of Microelectronics, ICM, 6-8 December 2004, Tunis, TUNISIA.
19. Murat Şehirlioğlu, Ali Ümit Keskin, "A technique for design data input in PCB rapid prototyping", Proceedings of 4th International Symposium on Intelligent Manufacturing Systems, Decision Support Systems: September 6-8, pp: 238-244, 2004 - Sakarya.

20. Ali Ümit Keskin, "Wien bridge oscillator performances using current and voltage feedback amplifiers", ICSP 2003, 23-25, September 2003, Çanakkale. [\(PDF\)](#)
21. Ali Ümit Keskin, "Single resistor controlled oscillators employing current feedback amplifiers without external compensation", ICSP 2003, 23-25, September 2003, Çanakkale. [\(PDF\)](#)
22. B. Okudan, A. Ü. Keskin, A. Aydın, G. Cesur, S. Comlekci, H. Suslu, "Investigation of the effects of static and 50Hz electromagnetic fields on intrauterine rat bones using DEXA analysis", EANM'05 - Annual Congress of the European Association of Nuclear Medicine October 15 - 19, 2005, Istanbul.
23. Ali Ümit Keskin, Dilek G. Yavuz, Oben Dag, Oguzhan Deyneli, Hasan Aydın, Tarçın O, Morkoyun E, Sema Akalin, "Artificial Neural Network-Based Diagnosis And Classification Of Thyroid Disorders", 30th Annual Meeting of The European Thyroid Association Congress, 19-22 September 2004, Istanbul.
24. Ali Ümit Keskin, "A technique for the measurement of mechanical integrity of bones using fast Walsh and Fourier Transforms". IEEE International Symposium on Electromagnetic Compatibility. August 23-25, 1983, Washington D.C., USA.

Other Journal Publications:

1. Gökhan Terzioğlu, Ali Ümit Keskin, Gülderen Yanıkkaya Demirel, "Measurement Methods of Cell Proliferation and a Comparison of Various Commercial Proliferation Kits", Turkish Journal of Immunology, 2013 ;1(3), pp:74-89 [\(PDF\)](#)
2. F.Bayrak, A.Ü.Keskin, G.Gemici, M.Degertekin, E.Demirtas "Contrast Echocardiography: History, Current Clinical Applications and Future Potentials", Yeditepe Medical Journal, Vol.1, pp:65-70, 2007.
3. Biolek, D., Keskin, A.U., Biolkova, V., "Quadrature Oscillator using CDTA-based Integrators", WSEAS Transactions on Electronics, Vol. 3, No. 9, September 2006, pp. 463-469. [\(PDF\)](#)
4. Ali Ümit Keskin, İmran Göker, "A short note on the application of Cholesky factorization in MATLAB", Istanbul University, Journal of Electrical & Electronics Engineering (IU-JEEE), Vol.6, (1), pp: 113-115, 2006.
5. Ali Ümit Keskin, "The in vivo driving point impedance analysis of human tibia". Journal of Yıldız University, pp 13-21, 1984/3.

Local Symposium-Congress Presentations:

1. Ali Ümit Keskin, Altay Burak Dalan, Pınar Çıragil, Aynur Eren Topkaya. "CoronaVac Aşısının İkinci Dozu COVID-19 Geçirmiş Kişilerde Antikor Düzeylerinin Düşmesine Neden Olur mu?" Ali Ümit Keskin, Altay Burak Dalan, Pınar Çıragil, Aynur Eren Topkaya. 6. Ulusal Klinik Mikrobiyoloji Hibrid Kongresi, 20-24 Ekim 2021.

2. Ali Ümit Keskin, Altay Burak Dalan, Pınar Çıragil, Aynur Eren Topkaya. "CoronaVac ile Aşılanmış, COVID-19 Geçirmiş ve Sağlıklı Kontrollerde SARS-CoV-2'ye Özgü Salgısal ve Hücresel Bağışıklık Durumu". 6. Ulusal Klinik Mikrobiyoloji Hibrid Kongresi, 20-24 Ekim 2021.
3. Başak Lara Günal, Ali Ümit Keskin, Fatma Ferda Kartufan and Özge Köner, "Development of a Full Face Mask during the COVID-19 Epidemic Spread Period". TıpTekno 2020, 19-20 Kasım 2020, ONLINE. [\(PDF\)](#)
4. Sibel Özbal, Hayrettin Can Südor, Ali Ümit Keskin, "Chaotic Dynamics of a Jerk Function with Hyperbolic Tangent Nonlinearity". TIP-TEKNO 2018, CYPRUS, November 10-12, 2018. [\(PDF\)](#)
5. Sibel Özbal, Ali Ümit Keskin, "GUI Based Heart Rate Variability Analysis and an Application", BIYOMUT 2017 NOV 24-26, 2017 İstanbul. [\(PDF\)](#)
6. Tuğçe Yalta, Ali Ümit Keskin, "Hasta Yatağı Tartısı Tasarımı Design and Realization of a Patient Bed Scale."TIPTEKNO 2017 Ekim, Trabzon. [\(PDF\)](#)
7. Ugurcan Pala, Ali Ümit Keskin "Biyolojik Sıvıların Analizinde Titreşimsel Dönüştürücülerin Modellenmesi (Modelling of Vibrational Transducers in the Analysis of Biological Fluids), Biyomut 2016, 3-5 Kasım, 2016, Seferhisar, İzmir.
8. Merve Cansu Kirman, Simay Ürgüp, Ali Ümit Keskin, "Serebral Palsili Çocuklar İçin Bir Sandalye Tasarımı ve Gerçekleştirilmesi". (Design and Realization of a Chair for Children with Cerebral Palsy Disease), Biyomut 2014, 16-17 October, 2014, İstanbul.
9. Gökhan Ertaş, Ali Ümit Keskin, "Doğrusal Olmayan İşaretlerin Analizinde Hurst Üsteli-Poincaré Parametrelerinin İlişkisi", (Correlation between Hurst Exponent and Poincaré Parameters in Non-linear Signal Analysis), Biyomut 2014, 16-17 October, 2014, İstanbul
10. Gökhan Ertaş, Ali Ümit Keskin, "Türkiye' de Biyomedikal Mühendisliği Lisans Programlarının Son Beş Yılı ve 2020 yılı için Öngörüler", (Last Five Years of Undergraduate Biomedical Engineering Programs in Turkey and Predictions for the year of 2020) , Biyomut 2014, 16-17 October, 2014, İstanbul
11. Atakan Kozik, Gökhan Ertaş ve Ali Ümit Keskin, "Tıbbi Amaçlı Bir Oksijen Ölçüm Cihazının Tasarımı ve Gerçekleştirilmesi" (Design and Realization of an Oxygen Measurement Device for Medical Applications), Biyomut, 3-5 Ekim 2012, İstanbul
12. Gökhan Ertaş, Ali Ümit Keskin ve Gülderen Yanıkkaya Demirel "Akan Hücre Ölçer Analizi için MATLAB Tabanlı Bir Grafik Ara-yüz Yazılım Geliştirilmesi" (Development of a MATLAB Based Graphical User Interface Software for Flow Cytometric Analysis), Biyomut, 3-5 Ekim 2012, İstanbul
13. Turkey Toklu, Ali Ümit Keskin, Serdar Öztezcan, "X- ışınlarının idrar test stripleri üzerindeki etkilerinin analizi" (Analysis of the influence of X-rays on urine dipsticks), Türk Biyokimya kongresi, Konya, 24-28 Eylül 2012

14. Gokhan Ertas ve Ali Ümit Keskin, "Türkiye' de Biyomedikal Mühendisliği Lisans Eğitimi," 16.Biyomedikal Mühendisliği Ulusal Toplantısı, 13-16 Ekim 2011, Antalya. Sözel bildiri.
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16. Osman Melih Can, Ali Ümit Keskin, "Aköz humorden yakın kızılaltı spektroskopisiyle glikoz konsantrasyonu ölçümü", Tıp Teknolojileri Ulusal Kongresi, 14-15 Ekim 2010, Antalya
17. Ali Ümit Keskin, Cihat Koyuncu, "Doku saklama kaplarında sıvı kriyojen seviyesi ölçümü için bir yöntem",BIYOMUT 2010, 21-23 Nisan 2010, Antalya
18. Ali Demir, Ali Ümit Keskin, Mehmet Ünsal, Ali Bayram, "FMRG ile Hasta Tepki Süresinin Ölçülmesi için Bir Deney Düzeneği", BIYOMUT 2010, 21-23 Nisan 2010, Antalya
19. Abidin Altıntaş, Cem Ünsalan, Ali Ümit Keskin, Faruk Yencilek, "X-Işını imgelerinden böbrek taşlarının dinamik takibi", BIYOMUT 2010, 21-23 Nisan 2010, Antalya
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