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### Eğitim Bilgileri

Doktora, Iowa State University, Nükleer Mühendislik, Amerika Birleşik Devletleri 1986 - 1989

Yüksek Lisans, Iowa State University, Nükleer Mühendislik, Amerika Birleşik Devletleri 1983 - 1986

Lisans, İstanbul Teknik Üniversitesi, Kimya-Metalurji Fakültesi, Metalurji Ve Malzeme Mühendisliği Bölümü, Türkiye 1977 - 1982

### Yabancı Diller

İngilizce

### Araştırma Alanları

Makina Mühendisliği, Enerji, Konvansiyonel Enerji Sistemleri ve Teknolojileri , Nükleer Enerji, Güneş Enerjisi, Metalurji ve Malzeme Mühendisliği, Malzeme Bilimi ve Mühendisliği, Mühendislik ve Teknoloji

### Akademik Unvanlar / Görevler

Prof.Dr., İstanbul Teknik Üniversitesi, Enerji Enstitüsü, Nükleer Araştırmalar, 2013 - Devam Ediyor

Prof.Dr., Hacettepe Üniversitesi, Mühendislik Fakültesi, Nükleer Enerji Mühendisliği Bölümü, 2004 - 2013

Doç.Dr., Hacettepe Üniversitesi, Mühendislik Fakültesi, Nükleer Enerji Mühendisliği Bölümü, 1994 - 2004

Yrd.Doç.Dr., Hacettepe Üniversitesi, Mühendislik Fakültesi, Nükleer Enerji Mühendisliği Bölümü, 1989 - 1994

### Akademik İdari Deneyim

İstanbul Teknik Üniversitesi, Enerji Enstitüsü, Yenilenebilir Enerji Anabilim Dalı, 2013 - Devam Ediyor

Hacettepe Üniversitesi, Mühendislik Fakültesi, Nükleer Enerji Mühendisliği Bölümü, 2005 - Devam Ediyor

Hacettepe Üniversitesi, Mühendislik Fakültesi, Nükleer Enerji Mühendisliği Bölümü, 2006 - 2008

Hacettepe Üniversitesi, Mühendislik Fakültesi, Nükleer Enerji Mühendisliği Bölümü, 1999 - 2002

## Verdiği Dersler

Cogeneration and Waste Heat Recover, Yüksek Lisans, 2016 - 2017

## Jüri Üyelikleri

Doçentlik Sınavı, Doçentlik sınavı, İTÜ, Nisan, 2017

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **The computational fluid dynamics evaluation of the diffuser on N-16 radioisotope rise time in TRIGA mark II research reactor tanks**  
Bektaş S., Lüle S., Çolak Ü.  
Progress in Nuclear Energy, cilt.134, 2021 (SCI-Expanded)
- II. **Simultaneous multiple droplet impact and their interactions on a heated surface**  
Gültekin A., Erkan N., Ozdemir E., Çolak Ü., Suzuki S.  
EXPERIMENTAL THERMAL AND FLUID SCIENCE, cilt.120, 2021 (SCI-Expanded)
- III. **PIV measurement inside single and double droplet interaction on a solid surface**  
Gültekin A., Erkan N., Çolak Ü., Suzuki S.  
EXPERIMENTS IN FLUIDS, cilt.61, sa.10, 2020 (SCI-Expanded)
- IV. **The development of TM2-RIA code for TRIGA type research reactors**  
Allaf M. A., Şentürk Lüle S., Çolak Ü.  
ANNALS OF NUCLEAR ENERGY, cilt.145, 2020 (SCI-Expanded)
- V. **Experimental and Numerical Investigation of Air Flow Motion in Cylinder of Heavy Duty Diesel Engines**  
Demirkesen C., Çolak Ü., Savci I. H., Zeren H. B.  
JOURNAL OF APPLIED FLUID MECHANICS, cilt.13, sa.2, ss.537-547, 2020 (SCI-Expanded)
- VI. **A stochastic evaluation of investments in combined cooling, heat, and power systems**  
Ersoz I., Çolak Ü.  
APPLIED THERMAL ENGINEERING, cilt.146, ss.376-385, 2019 (SCI-Expanded)
- VII. **Synthesis and characterization of solvent-free hybrid alkyd resin with hyperbranched melamine core**  
Gunduz G., Keskin N., Çolak Ü., Maviş B.  
JOURNAL OF COATINGS TECHNOLOGY AND RESEARCH, cilt.15, ss.831-843, 2018 (SCI-Expanded)
- VIII. **Highly efficient poly(fluorene phenylene) copolymer as a new class of binder for high-capacity silicon anode in lithium-ion batteries**  
YUCA N., Cetintasoglu M. E., Dogdu M. F., AKBULUT H., Tabanlı S., Çolak Ü., Taskin O. S.  
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, cilt.42, sa.3, ss.1148-1157, 2018 (SCI-Expanded)
- IX. **Use of functionalized boehmite nanoparticles to improve the hardness and tribological properties of polyurethane films**  
Eroglu G., Gunduz G., Çolak Ü., MAVİŞ B.  
JOURNAL OF POLYMER RESEARCH, cilt.25, sa.2, 2018 (SCI-Expanded)
- X. **A new method in beam shaping: Multi-Objective Genetic Algorithm method coupled with a Monte-Carlo based reactor physics code**  
TÜRKMEN M., ERGÜN Ş., Çolak Ü.  
PROGRESS IN NUCLEAR ENERGY, cilt.99, ss.165-176, 2017 (SCI-Expanded)
- XI. **MoOx Doped Single-Walled Carbon Nanotube Films as Hole Transport Layer for Organic Solar Cells**  
COLAK F., DALKILIC Z., TABATABAEI A., ATLIBATUR R., Çolak Ü., Arıcı E. Ü., KARATEPE N.  
ACTA PHYSICA POLONICA A, cilt.131, sa.3, ss.474-476, 2017 (SCI-Expanded)
- XII. **A Monte Carlo Library Least Square approach in the Neutron Inelastic scattering and Thermal-capture Analysis (NISTA) process in bulk coal samples**

Reyhancan İ. A., EBRAHİMİ A., Çolak Ü., Erduran M. N., ANGIN N.

NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS  
DETECTORS AND ASSOCIATED EQUIPMENT, cilt.843, ss.29-33, 2017 (SCI-Expanded)

- XIII. **A facile and functional process to enhance electrochemical performance of silicon anode in lithium ion batteries**  
YUCA N., Çolak Ü.  
ELECTROCHIMICA ACTA, cilt.222, ss.1538-1544, 2016 (SCI-Expanded)
- XIV. **Combined cooling, heat and power planning under uncertainty**  
Ersoz I., Çolak Ü.  
ENERGY, cilt.109, ss.1016-1025, 2016 (SCI-Expanded)
- XV. **Synthesis and characterization of multi-hollow opaque polymer pigments**  
Asmaoglu S., Gunduz G., MAVİŞ B., Colak U.  
JOURNAL OF APPLIED POLYMER SCIENCE, cilt.133, sa.29, 2016 (SCI-Expanded)
- XVI. **Properties of Heavyweight Concrete for Structural and Radiation Shielding Purposes**  
Ozen S., SENGUL C., ERENOGLU T., Çolak Ü., REYHANCAN İ. A., TASDEMİR M. A.  
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, cilt.41, sa.4, ss.1573-1584, 2016 (SCI-Expanded)
- XVII. **Core map generation for the ITU TRIGA Mark II research reactor using Genetic Algorithm coupled with Monte Carlo method**  
TÜRKMEN M., Çolak Ü., ERGÜN Ş.  
NUCLEAR ENGINEERING AND DESIGN, cilt.295, ss.84-95, 2015 (SCI-Expanded)
- XVIII. **Effect of burnup on the neutronic parameters of ITU TRIGA Mark II research reactor**  
TÜRKMEN M., Çolak Ü., ERGÜN Ş.  
PROGRESS IN NUCLEAR ENERGY, cilt.83, ss.26-34, 2015 (SCI-Expanded)
- XIX. **CFD simulations of hydrodynamics of conical spouted bed nuclear fuel coatiers**  
Lule S., Çolak Ü., KÖKSAL M., KÜLAH G.  
Chemical Vapor Deposition, cilt.21, sa.4-6, ss.122-132, 2015 (SCI-Expanded)
- XX. **Modification of the radial beam port of ITU TRIGA Mark II research reactor for BNCT applications**  
Akan Z., TÜRKMEN M., Çakır T., Reyhancan İ. A., Çolak Ü., OKKA M., KIZILTAS S.  
APPLIED RADIATION AND ISOTOPES, cilt.99, ss.110-116, 2015 (SCI-Expanded)
- XXI. **Analysis of ITU TRIGA Mark II research reactor using Monte Carlo method**  
TÜRKMEN M., Çolak Ü.  
PROGRESS IN NUCLEAR ENERGY, cilt.77, ss.152-159, 2014 (SCI-Expanded)
- XXII. **Synthesis and characterization of erbia and ceria doped calcia stabilized nanocrystalline zirconia based ceramics**  
Uslu I., Aytimur A., Kocyigit S., Ozcan F., Ozturk M. K., Colak U.  
JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY, cilt.65, sa.2, ss.112-120, 2013 (SCI-Expanded)
- XXIII. **Synthesis and characterization of copper phthalocyanine and tetracarboxamide copper phthalocyanine deposited mica-titania pigments**  
Topuz B. B., Gunduz G., MAVİŞ B., Colak U.  
DYES AND PIGMENTS, cilt.96, sa.1, ss.31-37, 2013 (SCI-Expanded)
- XXIV. **Effect of pebble packing on neutron spectrum and the isotopic composition of HTGR fuel**  
TÜRKMEN M., Colak U.  
ANNALS OF NUCLEAR ENERGY, cilt.46, ss.29-36, 2012 (SCI-Expanded)
- XXV. **Synthesis of zirconium tungstate-zirconia core-shell composite particles**  
Khazeni N., MAVİŞ B., Gunduz G., Colak U.  
MATERIALS RESEARCH BULLETIN, cilt.46, sa.11, ss.2025-2031, 2011 (SCI-Expanded)
- XXVI. **Computational fluid dynamics modeling of momentum transport in rotating wall perfused bioreactor for cartilage tissue engineering**  
Cinbiz M. N., Tigli R. S., Beskardes I. G., GÜMÜŞDERELİOĞLU M., Colak U.  
JOURNAL OF BIOTECHNOLOGY, cilt.150, sa.3, ss.389-395, 2010 (SCI-Expanded)
- XXVII. **Compatibility analysis of Nylon 6 and poly(ethylene-n-butyl acrylate-maleic anhydride) elastomer**

- blends using isothermal crystallization kinetics**  
Biber E., Gunduz G., MAVIŞ B., Colak U.  
MATERIALS CHEMISTRY AND PHYSICS, cilt.122, sa.1, ss.93-101, 2010 (SCI-Expanded)
- XXVIII. **Effects of electrospinning process parameters on nanofibers obtained from Nylon 6 and poly (ethylene-n-butyl acrylate-maleic anhydride) elastomer blends using Johnson S-B statistical distribution function**  
Biber E., Gunduz G., MAVIŞ B., Colak U.  
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, cilt.99, sa.2, ss.477-487, 2010 (SCI-Expanded)
- XXIX. **Synthesis, characterization and osteoblastic activity of polycaprolactone nanofibers coated with biomimetic calcium phosphate**  
MAVIŞ B., Demirtas T. T., GÜMÜŞDERELİOĞLU M., Gunduz G., Colak U.  
ACTA BIOMATERIALIA, cilt.5, sa.8, ss.3098-3111, 2009 (SCI-Expanded)
- XXX. **Performance analysis of TRISO coated fuel particles with kernel migration**  
Çolak Ü.  
JOURNAL OF NUCLEAR MATERIALS, cilt.374, ss.168-177, 2008 (SCI-Expanded)
- XXXI. **Monte Carlo criticality calculations for a pebble bed reactor with MCNP**  
Çolak Ü., Şeker V.  
NUCLEAR SCIENCE AND ENGINEERING, cilt.149, ss.131-137, 2005 (SCI-Expanded)
- XXXII. **Comparison of pressure vessel integrity analyses and approaches for VVER 1000 and PWR vessels for PTS conditions**  
Gulol O., Colak U.  
NUCLEAR ENGINEERING AND DESIGN, cilt.226, sa.3, ss.231-241, 2003 (SCI-Expanded)
- XXXIII. **HTR-10 full core first criticality analysis with MCNP**  
Seker V., Colak U.  
NUCLEAR ENGINEERING AND DESIGN, cilt.222, ss.263-270, 2003 (SCI-Expanded)
- XXXIV. **PWR system simulation and parameter estimation with neural networks**  
Akkurt H., Colak U.  
ANNALS OF NUCLEAR ENERGY, cilt.29, sa.17, ss.2087-2103, 2002 (SCI-Expanded)
- XXXV. **Comparative analysis of pressure vessel integrity for various LOCA conditions**  
Colak U., OZDERE O.  
JOURNAL OF NUCLEAR MATERIALS, cilt.297, sa.3, ss.271-278, 2001 (SCI-Expanded)
- XXXVI. **Burnup characteristics and performance of boron nitride and boron coated urania and urania-gadolinia fuels**  
Durmazucar H., Colak U., SARIKAYA B., GUNDUZ G.  
NUCLEAR ENGINEERING AND DESIGN, cilt.203, sa.1, ss.57-64, 2001 (SCI-Expanded)

## **Diğer Dergilerde Yayınlanan Makaleler**

- I. **The Investigation of the Sensitivity of Monte Carlo Simulation Results to Modelling Approaches for Nuclear Reactor Cores**  
ŞENTÜRK LÜLE S., Allaf M., ÇOLAK Ü.  
Avrupa Bilim ve Teknoloji Dergisi, sa.38, ss.110-115, 2022 (Hakemli Dergi)
- II. **Dose calculations of anthropomorphic voxel-based phantom for Americium-241/Beryllium neutron source**  
SARIOĞLU B., ŞENTÜRK LÜLE S., ÇOLAK Ü.  
BgNS TRANSACTIONS, 2021 (Hakemli Dergi)
- III. **Systematic structural characterization of high-density porous silicon anodes in lithium-ion batteries**  
YUCA DOĞDU N., ÇOLAK Ü.  
Energy Storage, cilt.1, sa.5, 2019 (Hakemli Dergi)
- IV. **COMPUTATIONAL FLUID DYNAMICS ANALYSIS OF FLOW AND COMBUSTION OF A DIESEL ENGINE**

Abay K., Çolak Ü., YÜKSEK L.

JOURNAL OF THERMAL ENGINEERING, cilt.4, sa.2, ss.1879-1895, 2018 (ESCI)

V. **Nuclear desalination with PBMR**

Sen R. S., Colak U., Kadiroglu O. K.

International Journal of Nuclear Desalination, cilt.1, sa.2, ss.271-279, 2004 (Scopus)

## Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Monte Carlo Estimation of Spent Fuel Gamma Spectrum and Dose from Measurement System**  
ŞENTÜRK LÜLE S., SARIOĞLU B., ÇOLAK Ü.  
International Graduate Research Symposium, Türkiye, 1 - 03 Haziran 2022
- II. **Renewable Energy Investment Decision Evaluation for Local Authorities**  
Turkoglu E., Çolak Ü., Kayakutlu G., ARGUN İ. D.  
9th IFIP WG 12.6 and 1st IFIP WG 12.11 International Workshop on Artificial Intelligence for Knowledge Management, Energy, and Sustainability (AI4KMES) held at 30th International Joint Conference on Artificial Intelligence (IJCAI), Montreal, Kanada, 19 - 26 Ağustos 2021, cilt.637, ss.197-214
- III. **Computational Fluid Dynamics Analysis of ITU TRIGA Mark II Research Reactor Spent Fuel Pit**  
Sayın S., ŞENTÜRK LÜLE S., ÇOLAK Ü.  
European Research Reactor Conference, Helsinki, Finlandiya, 26 Eylül 2021
- IV. **Shielding Performance of a Proposed Spent Fuel Pit for the ITU TRIGA Mark II Research Reactor**  
BEKTAŞ S., ŞENTÜRK LÜLE S., ÇOLAK Ü.  
European Research Reactor Conference, Helsinki, Finlandiya, 26 Eylül 2021
- V. **Neutronic Analysis of Ventilated Dry Storage Cask with Monte Carlo Method**  
SARIOĞLU B., ŞENTÜRK LÜLE S., ÇOLAK Ü.  
International Conference on Nuclear Energy for New Europe, Bled, Slovenya, 6 - 09 Eylül 2021
- VI. **The Effect of Burnup on ITU TRIGA Mark II Research Reactor Control Parameters**  
ÖZKAN F. Ö., ŞENTÜRK LÜLE S., ÇOLAK Ü.  
International Conference on Nuclear Energy for New Europe, Bled, Slovenya, 6 - 09 Eylül 2021
- VII. **Freeze Plug Design in Molten Salt Reactor with Consideration of Solidification**  
KAHRAMAN M. C., ŞENTÜRK LÜLE S., ÇOLAK Ü.  
IV International (XVII Regional) Scientific Conference "Technogenic Systems and Environmental Risk", Obninsk, Rusya, 19 - 20 Nisan 2021, ss.13-15
- VIII. **CRITICALITY ANALYSIS OF PROPOSED TRIGA SPENT FUEL PIT DESIGN FOR VARIOUS HYPOTHETICAL EVENTS**  
Bektaş S., Şentürk Lüle S., Çolak Ü.  
29th International Conference Nuclear Energy for New Europe, Piran, Slovenya, 7 - 10 Eylül 2020
- IX. **Interaction phenomena of simultaneous multiple droplet on a heated surface**  
GÜLTEKİN A., Erkan N., Özdemir E., ÇOLAK Ü.  
The 12th Joint Symposium on Nuclear Science and Technology, 1 - 04 Aralık 2019
- X. **Dose calculations of anthropomorphic voxel-based phantom for Am-241/Be neutron source**  
SARIOĞLU B., ŞENTÜRK LÜLE S., ÇOLAK Ü.  
BgNS International Conference Nuclear Energy For The People, 4 - 07 Ekim 2019
- XI. **Numerical Investigation of a Single Droplet Impact onto Hot Surface by VOF Method at High Weber Numbers**  
ALLAF M., GÜLTEKİN A., ÇOLAK Ü.  
International Conference for Nuclear Energy in New Europe, Portoroz, Slovenya, 10 - 13 Eylül 2018
- XII. **Monte Carlo Analysis of Control Rod Worth for ITU TRIGA Mark II Research Reactor**  
Özkan F. Ö., Allaf M., Şentürk Lüle S., Çolak Ü.  
27th International Conference Nuclear Energy for New Europe, Piran, Slovenya, 10 - 13 Eylül 2018, ss.1
- XIII. **Doppler Broadening Effect on Reactivity Feedback in ITU TRIGA MARK II Research Reactor**

- Allaf M., Kutbay F., Şentürk Lüle S., Çolak Ü.  
27th International Conference Nuclear Energy for New Europe, Piran, Slovenya, 10 - 13 Eylül 2018
- XIV. **Doppler Broadening Effect on Reactivity Feedback in ITU TRIGA MARK II Research Reactor II**  
ALLAF M., KUTBAY F., LULE S. Ş., ÇOLAK Ü.  
27th International Conference Nuclear Energy for New Europe, 10 - 13 Eylül 2018, ss.2221-2226
- XV. **Nuclear energy Historical developments and future perspectives**  
ÇOLAK Ü.  
4th International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology, Antalya, Türkiye, 20 - 22 Nisan 2018, ss.2-4
- XVI. **Combination Effect Pigments**  
KALYONCU B. B., KAHYA S. S., SÖNMEZ Y., MAVİŞ B., ÇOLAK Ü., GUNDUZ G.  
Paintistanbul Turkcoat 2018 International Congress, İstanbul, Türkiye, 20 - 21 Mart 2018
- XVII. **The Future of Nuclear Energy and Changing Roles**  
ÇOLAK Ü., LULE S. Ş.  
Innternational Energy Raw Materials and Energy Summit, Türkiye, 27 Eylül - 30 Aralık 2017
- XVIII. **On-line coal analyzer with 14 MeV neutron generator**  
ÇOLAK Ü., REYHANCAN İ. A., ERDURAN M. N.  
XII Balkan Mineral Processing Congress, 1 - 03 Kasım 2017
- XIX. **The Future of Nuclear Energy and Changing Roles**  
ÇOLAK Ü., ŞENTÜRK LÜLE S.  
İNERMA, Türkiye, 27 - 30 Eylül 2017
- XX. **The Future of Nuclear Energy and Changing Roles**  
Şentürk Lüle S., Çolak Ü.  
International Energy Raw Materials and Energy Summit, İstanbul, Türkiye, 27 - 30 Eylül 2017, ss.1
- XXI. **Near zero thermal expansion ZrW2O8/ZrO2 composites**  
MAVIŞ B., VURAL İ., GUNDUZ G., ÇOLAK Ü., ÇELİK A.  
15th Conference Exhibition of the European Ceramic Society (ECERS 2017), 9 - 13 Temmuz 2017
- XXII. **Teaching, Training, and Research Activities on Nuclear Fieldin Turkey**  
ÇOLAK Ü.  
International Confrence on Capacity Building for Nuclear Industry: New Challenges in the Era of Globalization, Obninsk, Rusya, 4 - 06 Temmuz 2017
- XXIII. **Accident Tolerant Fuel**  
ŞENTÜRK LÜLE S., ÇOLAK Ü.  
İNERMA, 1 - 03 Ekim 2015
- XXIV. **Thorium as Nuclear Fuel**  
ÇOLAK Ü., ŞENTÜRK LÜLE S.  
İNERMA, 1 - 03 Ekim 2015
- XXV. **Application of Library Least Square Method in Neutron Inelastic Scattering and Thermal Analysis**  
ÇOLAK Ü., REYHANCAN İ. A., ERDURAN M. N., EBRAHİMİ A., ANGIN N.  
24. Conference on Accelerator Applications in Research and Industry, Fort Worth, Amerika Birleşik Devletleri, 30 Ekim - 04 Kasım 2016
- XXVI. **Application of library least square method in neutron inelastic scattering anf thermal capture analysis**  
ÇOLAK Ü., ebrahimi a., ERDURAN M. N., REYHANCAN İ. A., angin n.  
24th International conferenceon the application of accelerators in research and industry, 30 Ekim - 04 Kasım 2016
- XXVII. **Application of Monte Carlo Techniques to Dose Rate Calculations of Gamma Irradiation Facility**  
ŞENTÜRK LÜLE S., ÇOLAK Ü.  
23rd WiN Global Annual Conference, Avusturya, 24 - 27 Ağustos 2015
- XXVIII. **Physical mechanical and radiation properties of heavyweight concretes used for structural and radiation shileding purposes**  
ÖZEN S., sengül c., ÇOLAK Ü., taşdemir m. a., REYHANCAN İ. A.

International Conference on Engineering and Natural Sciences, 24 - 28 Mayıs 2016

- XXIX. **MoOx Doped Single Walled Carbon Nanotube Films as Hole Transport Layer for Organic Solar Cells**  
Atılbatur R., Colak F., Dalkılıç Z., Tatatabai A., ÇOLAK Ü., ARICI E. Ü., YAVUZ N.  
6th APMAS, International Advances in Applied Physics and Materials Sciences Congress and Exhibition, İstanbul, Türkiye, 1 - 03 Haziran 2016
- XXX. **Physical Mechanical and Radiational Properties of Heavyweight Concretes Used for Structural and Radiation**  
ÖZEN S., SENGUL C., ÇOLAK Ü., TASDEMİR M. A., REYHANCAN İ. A.  
International Conference on Engineering and Natural Sciences, Sarajevo, Bosna-Hersek, 24 - 28 Mayıs 2016, ss.1968-1975
- XXXI. **Fabrication of Single-Walled Carbon Nanotube Thin Films**  
Çolak F., Tabatabaei Mohseni A., Çolak Ü., Yavuz N.  
1st International Symposium "Functional Nanomaterials in Industrial Applications: Academic- Industry Meet, Preston, Birleşik Krallık, 29 - 31 Mart 2016, ss.120
- XXXII. **Development Of Carbon Nanotube-Based Organic Solar Cells**  
Tabatabaei Mohseni A., Çolak F., Dalkılıç Z., Laki M., Atılbatur R., Çolak Ü., Yavuz N.  
1st International Symposium "Functional Nanomaterials in Industrial Applications: Academic- Industry Meet, Preston, Birleşik Krallık, 29 - 31 Mart 2016, ss.130
- XXXIII. **Use of PFTNA for On Line Coal Analysis**  
ÇOLAK Ü., ERDURAN M. N., REYHANCAN İ. A.  
2015 ANS Winter Meeting and Nuclear Techno Expo, Washington, Amerika Birleşik Devletleri, 8 - 12 Kasım 2015, cilt.113, ss.479-480
- XXXIV. **Nuclear Power projects in Turkey and Human Resource Development Activities**  
ÇOLAK Ü., ŞENTÜRK LÜLE S.  
International Conference on Nuclear Human Resources Development in Asia and the Pacific, Malezya, 28 - 30 Ekim 2014
- XXXV. **Accident Tolerant Fuels for Nuclear Reactors**  
ÇOLAK Ü., LULE S. Ş.  
INTERNATIONAL ENERGY RAW MATERIALS AND ENERGY SUMMIT, İstanbul, Türkiye, 30 Eylül - 03 Ekim 2015
- XXXVI. **Neutronic Comparison of Proposed Claddings for Accident Tolerant Fuel with Zirconium Based Cladding in PWRs**  
Şentürk Lüle S., Çolak Ü.  
International Conference on Nuclear Power for the People, Burgas, Bulgaristan, 2 - 05 Eylül 2015, ss.1-5
- XXXVII. **Development of MoOx-CNT Combined Buffer Layer for Performance Improvement in Organic Solar Cells**  
Çolak F., Dalkılıç Z., Tabatabaei Mohseni A., Laki M., Çolak Ü., Yavuz N.  
The sixteenth International Conference on the Science and Application of Nanotubes, Nagoya, Japonya, 28 Haziran - 03 Temmuz 2015, ss.443
- XXXVIII. **Fuel Burnup Calculation in ITU TRIGA Mark II Research Reactor by Using Monte Carlo Method**  
TÜRKMEN M., Çolak Ü.  
23rd International Conference on Nuclear Energy for New Europe (NENE), Portoroz, Slovenya, 8 - 11 Eylül 2014
- XXXIX. **High Purity Single Walled Carbon Nanotubes as Transparent Electrode Materials**  
Laki M., Tabatabai A., ÇOLAK Ü., YAVUZ N., ARICI E. Ü.  
SolarTR-3, Third Turkish Solar Electricity and Exhibition Conference, Ankara, Türkiye, 27 - 30 Nisan 2015
- XL. **A New Integral Fuel Burnable Absorber Design for LWR's**  
Çolak Ü., Durmazıçar H. H., Gündüz G.  
1997 International Topical Meeting on LWR Fuel Performance, Portland, Amerika Birleşik Devletleri, 2 - 06 Mart 1997, ss.536-539

## Desteklenen Projeler

Sözer H., Güven D., Kayalca M. Ö., Çolak Ü., Yavuzsoy Keven E., Erasmus Projesi, NextGenSportsFacilities, 2023 - 2025  
Çolak Ü., Yükseköğretim Kurumları Destekli Proje, Kütüphane en küçük kareler metodunun nötron inelastik saçılma ve termal yutma analizine uygulanması, 2016 - 2018  
Çolak Ü., Yükseköğretim Kurumları Destekli Proje, Molibden Oksitin Organik Güneş Pillerinde Hol Taşıyıcı Tabaka Olarak Kullanımının İncelenmesi, 2015 - 2018  
Çolak Ü., Yükseköğretim Kurumları Destekli Proje, GERÇEK ZMANLI KÖMÜR ANALİZİ İÇİN PFTNA YÖNTEMİNİN KULLANIMI, 2015 - 2018

## Metrikler

Yayın: 87  
Atıf (WoS): 477  
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H-İndeks (Scopus): 13

## Kongre ve Sempozyum Katılımı Faaliyetleri

4th International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology, Davetli Konuşmacı, Antalya, Türkiye, 2018  
CAARI 2016. 24th Conference on Application of Accelerators in Research and Industry, Oturum Başkanı, Texas, Amerika Birleşik Devletleri, 2016

## Akademi Dışı Deneyim

Nort West University  
Iowa State University