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### Eğitim Bilgileri

Doktora, University Of Malaya, Faculty Of Engineering, Mechanical Engineering, Malezya 2011 - 2014

Yüksek Lisans, University Of Malaya, Faculty Of Engineering, Mechanical Engineering, Malezya 2008 - 2010

Lisans, University Of Khartoum, Faculty Of Engineering, Mechanical Engineering, Sudan 2000 - 2005

### Yabancı Diller

İngilizce, C2 Ustalık

Arapça, C2 Ustalık

Türkçe, A1 Başlangıç

Endonezyaca, A1 Başlangıç

### Yaptığı Tezler

Doktora, A comprehensive Analysis of Edible and Non-edible Biodiesel Feedstocks, University Of Malaya, Faculty Of Engineering, Mechanical Engineering, 2010

Yüksek Lisans, Energy Economical and Environmental Analysis of Industrial boilers, University Of Malaya, Faculty Of Engineering, Mechanical Engineering, 2008

### Araştırma Alanları

Teknik Bilimler, Makina Mühendisliği, Enerji, Diğer Yenilenebilir Enerji Sistemleri, Alternatif Enerji Kaynakları

### Akademik Unvanlar / Görevler

Dr. Öğr. Üyesi, Erciyes Üniversitesi, Mühendislik Fakültesi, Makina Mühendisliği, 2018 - Devam Ediyor

Yrd. Doç. Dr., Erciyes Üniversitesi, Mühendislik Fakültesi, Makina Mühendisliği, 2015 - 2018

Öğretim Görevlisi Dr., Erciyes Üniversitesi, Mühendislik Fakültesi, Makina Mühendisliği, 2014 - 2015

## Yönetilen Tezler

- MOHAMED ATABANI A. I., To be announced, Doktora, M.Ahmed(Öğrenci), Devam Ediyor
- Mohamed Atabani A., Valorization of spent coffee grounds into biodiesel: blending with alcohols, engine performance and FT-IR, TGA, DSC and NMR characterizations, Yüksek Lisans, O.Khalid(Öğrenci), 2020
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- Mohamed Atabani A. I., Evaluation, characterization and engine performance of complementary fuel blends of butanol-biodiesel-diesel blends from Aleurites moluccanus as potential alternative fuels for CI engines, Yüksek Lisans, M.Mekaoussi(Öğrenci), 2017

## Jüri Üyelikleri

- Tez Savunma (Yüksek Lisans), Tez Savunma (Yüksek Lisans), Atatürk Üniversitesi, Haziran, 2022
- Doktora Yeterlik Sınavı, Doktora Yeterlik Sınavı, Aydın Adnan Menderes Üniversitesi, Şubat, 2021

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

- I. **Investigation of a novel Defatted Spent Coffee Ground (DSCG)-supported Ni catalyst for fuel cell and supercapacitor applications**  
Hansu T. A., Al-Samarae R., Atelge M., Kaya M., Kıvrak H. D., Bogrekcı I., YILDIZ Y. Ş., AKANSU S. O., ÜNALAN S., ATABANI A.  
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- II. **Tea byproducts biorefinery for bioenergy recovery and value-added products development: A step towards environmental sustainability**  
Kumar V., Bhat S. A., Kumar S., Verma P., Badruddin I. A., Américo-Pinheiro J. H. P., Sathyamurthy R., ATABANI A.  
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- III. **Prediction and performance optimisation of a DI CI engine fuelled diesel–Bael biodiesel blends with DMC additive using RSM and ANN: Energy and exergy analysis**  
Pitthaiah S., Juchelková D., Sathyamurthy R., ATABANI A.  
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- IV. **Investigating the influence of plastic waste oils and acetone blends on diesel engine combustion, pollutants, morphological and size particles: Dehalogenation and catalytic pyrolysis of plastic waste**  
Yusuf A. A., Ampah J. D., Veza I., ATABANI A., Hoang A. T., Nippae A., Powoe M. T., Afrane S., Yusuf D. A., Yahuza I.  
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- V. **Nanomaterials for biofuels production towards a sustainable environment**  
Vasseghian Y., Almomani F., ATABANI A.  
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- VI. **Emerging potential of spent coffee ground valorization for fuel pellet production in a biorefinery**  
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ENVIRONMENT DEVELOPMENT AND SUSTAINABILITY, cilt.25, sa.8, ss.7585-7623, 2023 (SCI-Expanded)
- VII. **Editorial Preface of the Special Issue on “The 5th International Conference on Alternative Fuels, Energy & Environment: Futures and Challenges (ICAFEE 2021)”**

ATABANI A., Pugazhendhi A., Almomani F., Rajendran K.

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- VIII. **Supercapacitors production from waste: A new window for sustainable energy and waste management**  
Bhat S. A., Kumar V., Kumar S., ATABANI A., Anjum Badruddin I., Chae K.  
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- IX. **Anaerobic digestion of dry palms from five cultivars of Algerian date palm (Phoenix dactylifera L.) namely H'mira, Teggaza, Tinacer, Aghamou and Takarbouchet: A new comparative study**  
Atabani A., Djaafri M.  
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- X. **Recycling of waste tires to crude pyrolytic oil: Engine performance, combustion characteristics and emissions analysis of diesel-butanol-crude pyrolytic oil blends in CI diesel engines**  
ÖNER İ. V., ATABANI A., Durnagöl T.  
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- XI. **Defatted spent coffee grounds-supported cobalt catalyst as a promising supercapacitor electrode for hydrogen production and energy storage**  
KARAKAŞ D. E., Akdemir M., Atelge M. R., KAYA M., MOHAMED ATABANI A.  
CLEAN TECHNOLOGIES AND ENVIRONMENTAL POLICY, cilt.25, sa.2, ss.483-493, 2023 (SCI-Expanded)
- XII. **Editorial preface of the special issue on "the 5th international conference on alternative fuels, energy & environment: Futures & challenges (ICAFEE 2021)" (virtual) 15th – 18th, October 2021, Erciyes University (ERÜ), Türkiye**  
ATABANI A., Chae K.  
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- XIII. **Environmental and economic issues for renewable production of bio-jet fuel: A global prospective**  
Tiwari R., Mishra R., Choubey A., Kumar S., ATABANI A., Badruddin I. A., Khan T. Y.  
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- XIV. **Recent advances in the thermochemical transformation of biomass to bio-oil, biochar and syngas and its upgrading methods**  
ATABANI A., Pugazhendhi A., Almomani F., Rene E. R., Naqvi S. R.  
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- XV. **Valorization of spent coffee grounds for biogas production: A circular bioeconomy approach for a biorefinery**  
Mahmoud E., ATABANI A., Badruddin I. A.  
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- XVI. **Principles and potential of thermal hydrolysis of sewage sludge to enhance anaerobic digestion**  
Gahlot P., Balasundaram G., Tyagi V. K., ATABANI A., Suthar S., Kazmi A., Štěpanec L., Juchelková D., Kumar A.  
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- XVII. **Scale-up of the bioelectrochemical system: Strategic perspectives and normalization of performance indices**  
Jadhav D. A., Chendake A. D., Vinayak V., ATABANI A., Abdelkareem M. A., Chae K.  
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- XVIII. **Effect of stirring speeds on biodiesel yield using an innovative oscillatory reactor and conventional STR (A comparative study)**  
Khelafi M., Djaafri M., Kalloum S., Atelge M. R., Abut S., Dahbi A., BEKİROĞULLARI M., ATABANI A.  
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- XIX. **A critical review of the hydrogen production from biomass-based feedstocks: Challenge, solution, and future prospect**  
Taipabu M. I., Viswanathan K., Wu W., Hattu N., ATABANI A.  
Process Safety and Environmental Protection, cilt.164, ss.384-407, 2022 (SCI-Expanded)
- XX. **Optimizing operation parameters of a spark-ignition engine fueled with biogas-hydrogen blend integrated into biomass-solar hybrid renewable energy system**

Bui V. G., Bui T. M. T., Ong H. C., Nizetic S., Bui V. H., Nguyen T. T. X., ATABANI A., Stepanec L., Pham L. H. P., Hoang A. T.

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- XXI. **Measurement of organic and elemental carbon in the char deposits from the combustion of permitted and undesirable fuels in domestic boilers**  
Kucbel M., Švédová B., Raclavská H., Růžičková J., Raclavský K., Šafář M., Juchelková D., Kantor P., ATABANI A.  
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- XXII. **Impacts of the harvesting process on microalgae fatty acid profiles and lipid yields: Implications for biodiesel production**  
Shokravi Z., Shokravi H., Atabani A., Lau W. J., Chyuan O. H., Ismail A. F.  
Renewable & Sustainable Energy Reviews, cilt.161, ss.1-15, 2022 (SCI-Expanded)
- XXIII. **Comparative investigation of multi-walled carbon nanotube modified diesel fuel and biogas in dual fuel mode on combustion, performance, and emission characteristics**  
Atelge M., ARSLAN E., Krisa D., Al-Samarrae R., Abut S., ÜNALAN S., MOHAMED ATABANI A., KAHRAMAN N., AKANSU S. O., Kaya M., et al.  
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- XXIV. **Valorization of spent coffee grounds for biodiesel production: blending with higher alcohols, FT-IR, TGA, DSC, and NMR characterizations**  
MOHAMED ATABANI A., Al-Rubaye O. K.  
BIOMASS CONVERSION AND BIOREFINERY, cilt.12, sa.3, ss.577-596, 2022 (SCI-Expanded)
- XXV. **Integrated biorefineries, circular bio-economy, and valorization of organic waste streams with respect to bio-products**  
MOHAMED ATABANI A., Tyagi V. K., Fongaro G., Treichel H., Pugazhendhi A., Hoang A. T.  
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- XXVI. **Valorization of Wet Oily Petrochemical Sludge via Slow Pyrolysis: Thermo-Kinetics Assessment and Artificial Neural Network Modeling**  
Naqvi S. R., Ammar Taqvi S. A., Khoja A. H., Ali I., Mehran M. T., Farooq W., Tippayawong N., Juchelkova D., ATABANI A.  
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- XXVII. **A state-of-the-art review on spent coffee ground (SCG) pyrolysis for future biorefinery**  
MOHAMED ATABANI A., Ali I., Naqvi S. R., Badruddin I. A., Aslam M., Mahmoud E., Almomani F., Juchelkova D., Atelge M. R., Khan T. M. Y.  
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- XXVIII. **A performance evaluation study of nano-biochar as a potential slow-release nano-fertilizer from wheat straw residue for sustainable agriculture**  
Khan H. A., Naqvi S. R., Mehran M. T., Khoja A. H., Niazi M. B. K., Juchelkova D., MOHAMED ATABANI A.  
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- XXIX. **Co-digestion of vegetable peel with cow dung without external inoculum for biogas production: Experimental and a new modelling test in a batch mode**  
Lahbab A., Djaafri M., Kalloum S., Benatallah A., Atelge M. R., MOHAMED ATABANI A.  
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- XXX. **A dual functional material: Spirulina Platensis waste-supported Pd-Co catalyst as a novel promising supercapacitor electrode**  
KARAKAŞ D. E., Akdemir M., MOHAMED ATABANI A., KAYA M.  
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- XXXI. **Editorial Preface of the Special Issue on The 4th International Conference on Alternative Fuels, Energy & Environment: Futures and Challenges (ICAFEE 2019) 18th–21st, October 2019, Feng Chia University (FCU), Taichung, Taiwan**  
MOHAMED ATABANI A., Kumar G., Kim S., Pugazhendhi A.  
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- XXXII. **A Critical Overview of the State-of-the-Art Methods for Biogas Purification and Utilization Processes**

- Atelge M. R., ŞENOL H., Djaafri M., Hansu T. A., Krisa D., MOHAMED ATABANI A., Eskicioglu C., Muratcobanoglu H., ÜNALAN S., Kalloum S., et al.  
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- XXXIII. **Acid-based lignocellulosic biomass biorefinery for bioenergy production: Advantages, application constraints, and perspectives**  
Anh Tuan Hoang A. T. H., Nizetic S., Ong H. C., Chong C. T., MOHAMED ATABANI A., Van Viet Pham V. V. P.  
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- XXXIV. **Investigation of slow pyrolysis mechanism and kinetic modeling of Scenedesmus quadricauda biomass**  
Khan S. A., Ali I., Naqvi S. R., Li K., Mehran M. T., Khoja A. H., Alarabi A. A., MOHAMED ATABANI A.  
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- XXXV. **Enhanced Methane Production from Anaerobic Co-Digestion of Wheat Straw Rice Straw and Sugarcane Bagasse: A Kinetic Analysis**  
Meraj S., Liaquat R., Naqvi S. R., Sheikh Z., Zainab A., Khoja A. H., Juchelkova D., MOHAMED ATABANI A.  
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- XXXVI. **Synthesis of biodiesel via pre-blending of feedstocks: an optimization by the polynomial curve fitting method**  
Panhwar T., Mahesar S. A., Kandhro A. A., Laghari A., Sherazi S. T. H., Atabani A.  
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- XXXVII. **Impact of HHO gas enrichment and high purity biodiesel on the performance of a 315 cc diesel engine**  
Khan M. B., Kazim A. H., Farooq M., Javed K., Shabbir A., Zahid R., Fatima S., Danish M. R., Ali Q., Chaudhry I. A., et al.  
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- XXXVIII. **Editorial preface of the special issue on “progress in alternative fuels and energies”**  
MOHAMED ATABANI A.  
International Journal of Energy Research, cilt.45, sa.6, ss.8123-8124, 2021 (SCI-Expanded)
- XXXIX. **Renewable biohydrogen production from lignocellulosic biomass using fermentation and integration of systems with other energy generation technologies**  
Bhatia S. K., Jagtap S. S., Bedekar A. A., Bhatia R. K., Rajendran K., Pugazhendhi A., Rao C., MOHAMED ATABANI A., Kumar G., Yang Y.  
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- XL. **Editorial preface of the special issue on “The 4th International Conference on Alternative Fuels, Energy & Environment: Futures & challenges (ICAFEE 2019)” 18th - 21st, October 2019, Feng Chia University (FCU), Taiwan**  
MOHAMED ATABANI A., Chae K.  
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- XLI. **Current challenges and innovative developments in pretreatment of lignocellulosic residues for biofuel production: A review**  
Beig B., Riaz M., Naqvi S. R., Hassan M., Zheng Z., Karimi K., Pugazhendhi A., MOHAMED ATABANI A., Chi N. T. L.  
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- XLII. **Gasification of municipal solid waste blends with biomass for energy production and resources recovery: Current status, hybrid technologies and innovative prospects**  
Hameed Z., Aslam M., Khan Z., Maqsood K., MOHAMED ATABANI A., Ghauri M., Khurram M. S., Rehan M., Nizami A.  
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- XLIII. **Recent developments and strategies in genome engineering and integrated fermentation approaches for biobutanol production from microalgae**  
Shanmugam S., Hari A., Kumar D., Rajendran K., Mathimani T., MOHAMED ATABANI A., Brindhadevi K., Pugazhendhi A.  
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- XLIV. **Techno-enviro assessment and ranking of Turkey for use of home-scale solar water heaters**  
Siampour L., Vahdatpour S., Jahangiri M., Mostafaiepour A., Goli A., Shamsabadi A. A., MOHAMED ATABANI A.

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- XLV. **Anaerobic co-digestion of oil-extracted spent coffee grounds with various wastes: Experimental and kinetic modeling studies**  
Atelge M. R., Mohamed Atabani A., Abut S., Kaya M., Eskicioglu C., Semaan G., Lee C., Yildiz Y. Ş., Ünalın S., Mohanasundaram R., et al.  
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- XLVI. **Effect of reaction conditions on the lifetime of SAPO-34 catalysts in methanol to olefins process - A review**  
Ahmad M. S., Cheng C. K., Bhuyar P., MOHAMED ATABANI A., Pugazhendhi A., Nguyen Thuy Lan Chi N. T. L. C., Witoon T., Lim J. W., Juan J. C.  
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- XLVII. **Wastewater based microalgal biorefinery for bioenergy production: Progress and challenges**  
Bhatia S. K., Mehariya S., Bhatia R. K., Kumar M., Pugazhendhi A., Awasthi M. K., Atabani A., Kumar G., Kim W., Seo S., et al.  
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- XLVIII. **Spectral, thermoanalytical characterizations, properties, engine and emission performance of complementary biodiesel-diesel-pentanol/octanol blends**  
Atabani A., Al Kulthoom S.  
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- XLIX. **Comparative study of nanoparticles and alcoholic fuel additives-biodiesel-diesel blend for performance and emission improvements**  
Mujtaba M. A., Kalam M. A., Masjuki H. H., Gul M., Soudagar M. E. M., Ong H. C., Ahmed W., MOHAMED ATABANI A., Razzaq L., Yusoff M.  
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- L. **Spectral, In Vitro Biological, Engine and Emission Performances of Biodiesel Production from Chlorella protothecoides: A Sustainable Renewable Energy Source**  
Arvindnarayan S., Shobana S., Dharmaraja J., Nguyen D. D., Chang S. W., Atabani A., Kumar G., Prabhu K. K. S.  
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- LI. **Carbon molecular sieve production from defatted spent coffee ground using ZnCl<sub>2</sub> and benzene for gas purification**  
Kaya M., Atelge M. R., Bekirogullari M., Eskicioglu C., Atabani A., Kumar G., Yildiz Y. Ş., Ünalın S.  
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- LII. **Editorial Preface for the Special Issue "The 3rd International Conference on Alternative Fuels, Energy & Environment: Futures and Challenges (ICAFEE 2018)" 28th-31st October 2018 Southeast University (SEU), Nanjing, People's Republic of China**  
Atabani A. E., Kumar G., Kim S.  
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- LIII. **Experimental insight into co-combustion characteristics of oxygenated biofuels in modified DICI engine**  
Alagumalai A., Mathimani T., Pugazhendhi A., MOHAMED ATABANI A., Brindhadevi K., Canh N. D.  
FUEL, cilt.278, 2020 (SCI-Expanded)
- LIV. **A review on valorization of spent coffee grounds (SCG) towards biopolymers and biocatalysts production**  
Saratale G. D., Bhosale R., Shobana S., Banu J. R., Pugazhendhi A., Mahmoud E., Sirohi R., Bhatia S. K., MOHAMED ATABANI A., Mulone V., et al.  
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- LV. **Assessment of agro-industrial residues for bioenergy potential by investigating thermo-kinetic behavior in a slow pyrolysis process**  
Naqvi S. R., Ali I., Nasir S., Taqvi S. A. A., MOHAMED ATABANI A., Chen W.  
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- LVI. **Biodiesel from Scenedesmus species: Engine performance, emission characteristics, corrosion**

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- LVII. **Effect of hydrogen and multiwall carbon nanotubes blends on combustion performance and emission of diesel engine using Taguchi approach**  
Manigandan S., Atabani A. E., Ponnusamy V. K., Pugazhendhi A., Gunasekar P., Prakash S.  
FUEL, cilt.276, 2020 (SCI-Expanded)
- LVIII. **Impact of additives in Jet-A fuel blends on combustion, emission and exergetic analysis using a micro-gas turbine engine**  
Manigandan S., Atabani A. E., Ponnusamy V. K., Gunasekar P.  
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- LIX. **Optimization, kinetic and thermodynamic studies on sustainable biodiesel production from waste cooking oil: An Indian perspective**  
Pugazhendhi A., Alagumalai A., Mathimani T., Atabani A.  
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- LX. **Evaluation, characterization, and engine performance of complementary fuel blends of butanol-biodiesel-diesel from Aleurites moluccanus as potential alternative fuels for CI engines**  
MOHAMED ATABANI A., Mekaoussi M., Uguz G., Arpa O., Ayanoglu A., Shobana S.  
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- LXI. **A critical review of pretreatment technologies to enhance anaerobic digestion and energy recovery**  
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- LXII. **Modeling Viscosity and Density of Ethanol-Diesel-Biodiesel Ternary Blends for Sustainable Environment**  
Razzaq L., Farooq M., Mujtaba M. A., Sher F., Farhan M., Hassan M. T., Soudagar M. E. M., MOHAMED ATABANI A., Kalam M. A., Imran M.  
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- LXIII. **Biorefinery of spent coffee grounds waste: Viable pathway towards circular bioeconomy**  
Rajesh Banu J., Kavitha S., Yukesh Kannah R., Dinesh Kumar M., Preethi P., Atabani A., Kumar G.  
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- LXIV. **A novel Microcystis aeruginosa supported manganese catalyst for hydrogen generation through methanolysis of sodium borohydride**  
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- LXV. **Editorial Preface to the Special Issue on "The 2nd International Conference on Alternative Fuels and Energy: Futures and Challenges (ICAFE 2017)" 23rd–25th October 2017, Daegu, Republic of Korea**  
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## **Kongre ve Sempozyum Katılımı Faaliyetleri**

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## **Burslar**

Bright Spark (BS), PhD, Üniversite, 2011 - Devam Ediyor

## **Ödüller**

MOHAMED ATABANI A. I., Recognized reviewer, ACS Publications, Eylül 2017

MOHAMED ATABANI A. I., Recognized reviewer, Elsevier, Şubat 2017

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