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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

Türkçe, A1 Başlangıç

Endonezyaca, A1 Başlangıç

İngilizce, C2 Ustalık

Arapça, C2 Ustalık

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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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. **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**
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- II. **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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- III. **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**
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- IV. **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.
Process Safety and Environmental Protection, cilt.168, ss.624-625, 2022 (SCI-Expanded)
- V. **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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- VI. **Scale-up of the bioelectrochemical system: Strategic perspectives and normalization of performance indices**
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- VII. **Principles and potential of thermal hydrolysis of sewage sludge to enhance anaerobic digestion**
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- VIII. **Effect of stirring speeds on biodiesel yield using an innovative oscillatory reactor and conventional STR (A comparative study)**
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- IX. **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.
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- X. **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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- XI. **Measurement of organic and elemental carbon in the char deposits from the combustion of permitted and undesirable fuels in domestic boilers**
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- XII. **Impacts of the harvesting process on microalgae fatty acid profiles and lipid yields: Implications for biodiesel production**
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- XIII. **Emerging potential of spent coffee ground valorization for fuel pellet production in a biorefinery**
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- XIV. **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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- XV. **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.
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- XVI. **Integrated biorefineries, circular bio-economy, and valorization of organic waste streams with respect to bio-products**
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- XVII. **Valorization of Wet Oily Petrochemical Sludge via Slow Pyrolysis: Thermo-Kinetics Assessment and Artificial Neural Network Modeling**
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- XVIII. **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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- XIX. **A performance evaluation study of nano-biochar as a potential slow-release nano-fertilizer from wheat straw residue for sustainable agriculture**
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- CHEMOSPHERE, cilt.285, 2021 (SCI-Expanded)
- XX. **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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- XXI. **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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- XXII. **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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- XXIII. **A Critical Overview of the State-of-the-Art Methods for Biogas Purification and Utilization Processes**
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- XXIV. **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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- XXV. **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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- XXVI. **Defatted spent coffee grounds-supported cobalt catalyst as a promising supercapacitor electrode for hydrogen production and energy storage**
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- XXVII. **Enhanced Methane Production from Anaerobic Co-Digestion of Wheat Straw Rice Straw and Sugarcane Bagasse: A Kinetic Analysis**
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- XXVIII. **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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- XXIX. **Editorial preface of the special issue on “progress in alternative fuels and energies”**
MOHAMED ATABANI A.
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- XXX. **Impact of HHO gas enrichment and high purity biodiesel on the performance of a 315 cc diesel engine**
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- XXXI. **Renewable biohydrogen production from lignocellulosic biomass using fermentation and integration of systems with other energy generation technologies**
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- XXXII. **Editorial preface of the special issue on “The 4th International Conference on Alternative Fuels,**

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MOHAMED ATABANI A., Chae K.

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- XXXIII. **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. FUEL, cilt.287, 2021 (SCI-Expanded)
- XXXIV. **Techno-enviro assessment and ranking of Turkey for use of home-scale solar water heaters**
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- XXXV. **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. Fuel, cilt.285, 2021 (SCI-Expanded)
- XXXVI. **Anaerobic co-digestion of oil-extracted spent coffee grounds with various wastes: Experimental and kinetic modeling studies**
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- XXXVII. **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. Renewable and Sustainable Energy Reviews, cilt.136, 2021 (SCI-Expanded)
- XXXVIII. **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. SCIENCE OF THE TOTAL ENVIRONMENT, cilt.751, 2021 (SCI-Expanded)
- XXXIX. **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. FUEL, cilt.283, 2021 (SCI-Expanded)
- XL. **Spectral, thermoanalytical characterizations, properties, engine and emission performance of complementary biodiesel-diesel-pentanol/octanol blends**
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- XLI. **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. Waste and Biomass Valorization, cilt.11, ss.5809-5819, 2020 (SCI-Expanded)
- XLII. **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. FUEL, cilt.279, 2020 (SCI-Expanded)
- XLIII. **Assessment of agro-industrial residues for bioenergy potential by investigating thermo-kinetic behavior in a slow pyrolysis process**
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- XLIV. **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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- XLV. **Carbon molecular sieve production from defatted spent coffee ground using ZnCl₂ and benzene for gas purification**
Kaya M., Atelge M. R., Bekirogullari M., Eskicioglu C., Atabani A., Kumar G., Yildiz Y. Ş., Ünal S.
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- XLVI. **Experimental insight into co-combustion characteristics of oxygenated biofuels in modified DIC engine**
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- XLVII. **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**
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- XLVIII. **Biodiesel from Scenedesmus species: Engine performance, emission characteristics, corrosion inhibition and bioanalysis**
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- XLIX. **Impact of additives in Jet-A fuel blends on combustion, emission and exergetic analysis using a micro-gas turbine engine**
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- L. **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.
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- LI. **Evaluation, characterization, and engine performance of complementary fuel blends of butanol-biodiesel-diesel from Aleurites moluccanus as potential alternative fuels for CI engines**
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- LII. **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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- LIII. **A critical review of pretreatment technologies to enhance anaerobic digestion and energy recovery**
Atelge M., Atabani A., Banu J. R., Krisa D., Kaya M., Eskicioglu C., Kumar G., Lee C., Yildiz Y. Ş., Unalan S., et al.
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- LIV. **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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- LV. **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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- LVI. **A novel Microcystis aeruginosa supported manganese catalyst for hydrogen generation through**

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DUMAN F., Atelge M., Kaya M., Atabani A., Kumar G., ŞAHİN U., ÜNALAN S.

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- LVII. **Characterization of Hemp (*Cannabis sativa* L.) Biodiesel Blends with Euro Diesel, Butanol and Diethyl Ether Using FT-IR, UV-Vis, TGA and DSC Techniques**
Mohammed M., Atabani A., Uguz G., Lay C., Kumar G., Al-Samarae R.
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- LVIII. **Biogas Production from Organic Waste: Recent Progress and Perspectives**
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- LIX. **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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- LX. **Editorial preface to the special issue on “The 3rd International Conference on Alternative Fuels, Energy and Environment: Futures and challenges (ICAFEE 2018)” 28th–31st October 2018, Nanjing, People's Republic of China**
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- LXI. **Experimental investigation of effects on performance, emissions and combustion parameters of biodiesel–diesel–butanol blends in a direct-injection CI engine**
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- LXII. **Biobutanol from lignocellulosic biomass: bioprocess strategies**
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- LXIII. **Synthesis and evaluation of oxidation stability of biodiesel prepared from spent bleaching clay residual oil**
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- LXIV. **A compressive review on the effects of alcohols and nanoparticles as an oxygenated enhancer in compression ignition engine**
Nanthagopal K., Kishna R. S., Atabani A., Al-Muhtaseb A. H., Kumar G., Ashok B.
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- LXV. **Improved project control for sustainable development of construction sector to reduce environment risks**
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- LXVI. **Harvesting of blooming microalgae using green synthesized magnetic maghemite (γ -Fe₂O₃) nanoparticles for biofuel production**
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- LXVII. **Valorization of spent coffee grounds into biofuels and value-added products: Pathway towards integrated bio-refinery**
Atabani A. I., Al-Muhtaseb A. H., Kumar G., Saratale G. D., Aslam M., Khan H. A., Said Z., Mahmoud E.
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- LXVIII. **Fuels properties, characterizations and engine and emission performance analyses of ternary waste cooking oil biodiesel–diesel–propanol blends**
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Metrikler

Yayın: 134
Atf (WoS): 6978
Atf (Scopus): 9114
H-İndeks (WoS): 40
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Kongre ve Sempozyum Katılımı Faaliyetleri

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