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International Researcher IDs

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Education Information

Doctorate, University Of Malaya, Faculty Of Engineering, Mechanical Engineering, Malaysia 2011 - 2014

Postgraduate, University Of Malaya, Faculty Of Engineering, Mechanical Engineering, Malaysia 2008 - 2010

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

Foreign Languages

Turkish, A1 Beginner

Indonesian, A1 Beginner

English, C2 Mastery

Arabic, C2 Mastery

Dissertations

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

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

Research Areas

Technical Sciences, Mechanical Engineering, Energy, Renewable Energy Systems, Alternative Energy Resources

Academic Titles / Tasks

Assistant Professor, Erciyes University, Mühendislik Fakültesi, Makina Mühendisliği, 2018 - Continues

Assistant Professor, Erciyes University, Mühendislik Fakültesi, Makina Mühendisliği, 2015 - 2018

Lecturer PhD, Erciyes University, Mühendislik Fakültesi, Makina Mühendisliği, 2014 - 2015

Advising Theses

- MOHAMED ATABANI A. I., To be announced, Doctorate, M.Ahmed(Student), Continues
- Mohamed Atabani A., Valorization of spent coffee grounds into biodiesel: blending with alcohols, engine performance and FT-IR, TGA, DSC and NMR characterizations, Postgraduate, O.Khalid(Student), 2020
- Mohamed Atabani A., A study on the application of biodiesel–diesel higher alcohol blends with pentanol and octanol in CI (diesel engine), Postgraduate, S.Al(Student), 2019
- Mohamed Atabani A. I., FT-IR, UV-Vis, TGA, DSC characteristics, engine and emissions performance of complementary butanol-diesel blends with hemp (*Cannabis sativa* L.) methyl ester, Postgraduate, M.Noaman(Student), 2018
- Mohamed Atabani A., Alternatif Yakıt Olarak Farklı Atıklardan Biyogaz Üretimi ve Veriminin Artırılmasının İncelenmesi, Doctorate, M.RAŞİT(Student), 2018
- MOHAMED ATABANI A. I., Perspective of safflower (*Carthamus tinctorius*) as a potential biodiesel feedstock in Turkey: characterization, engine performance and emissions analyses of butanol-biodiesel-diesel blends, Postgraduate, R.Rafel(Student), 2017
- 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, Postgraduate, M.Mekaoussi(Student), 2017

Jury Memberships

- Post Graduate, Post Graduate, Atatürk Üniversitesi, June, 2022
- Doctoral Examination, Doctoral Examination, Aydın Adnan Menderes Üniversitesi, February, 2021

Published journal articles indexed by SCI, SSCI, and AHCI

- 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**
Atabani A., Djaafri M.
ENERGY, vol.269, pp.1-10, 2023 (SCI-Expanded)
- 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.
Fuel, vol.337, 2023 (SCI-Expanded)
- 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**
ÖNER İ. V., ATABANI A., Durnagöl T.
Sustainable Energy Technologies and Assessments, vol.56, 2023 (SCI-Expanded)
- 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, vol.168, pp.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.
Fuel, vol.328, 2022 (SCI-Expanded)
- VI. **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.
BIORESOURCETECHNOLOGY, vol.363, 2022 (SCI-Expanded)
- VII. **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.

Environmental Research, vol.214, 2022 (SCI-Expanded)

- VIII. **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., BEKIROĞULLARI M., ATABANI A.
FUEL, vol.325, 2022 (SCI-Expanded)
- 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.
Process Safety and Environmental Protection, vol.164, pp.384-407, 2022 (SCI-Expanded)
- 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.
ENERGY, vol.252, 2022 (SCI-Expanded)
- XI. **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., Růžicková J., Raclavský K., Šafář M., Juchelková D., Kantor P., ATABANI A.
Fuel, vol.319, 2022 (SCI-Expanded)
- XII. **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, vol.161, pp.1-15, 2022 (SCI-Expanded)
- XIII. **Emerging potential of spent coffee ground valorization for fuel pellet production in a biorefinery**
ATABANI A., Mahmoud E., Aslam M., Naqvi S. R., Juchelkova D., Bhatia S. K., Badruddin I. A., Khan T. M. Y., Hoang A. T., Palacky P.
ENVIRONMENT DEVELOPMENT AND SUSTAINABILITY, 2022 (SCI-Expanded)
- 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.
Fuel, vol.313, 2022 (SCI-Expanded)
- 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.
BIOMASS CONVERSION AND BIOREFINERY, vol.12, no.3, pp.577-596, 2022 (SCI-Expanded)
- XVI. **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.
BIOMASS CONVERSION AND BIOREFINERY, vol.12, no.3, pp.565, 2022 (SCI-Expanded)
- XVII. **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.
FRONTIERS IN ENERGY RESEARCH, vol.9, 2022 (SCI-Expanded)
- 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.
CHEMOSPHERE, vol.286, 2022 (SCI-Expanded)
- XIX. **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.

CHEMOSPHERE, vol.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.
FUEL, vol.306, 2021 (SCI-Expanded)
- 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.
FUEL, vol.304, 2021 (SCI-Expanded)
- 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.
JOURNAL OF ENVIRONMENTAL MANAGEMENT, vol.296, 2021 (SCI-Expanded)
- XXIII. **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.
SUSTAINABILITY, vol.13, no.20, 2021 (SCI-Expanded)
- 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.
Fuel, vol.301, 2021 (SCI-Expanded)
- 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.
JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS, vol.158, 2021 (SCI-Expanded)
- XXVI. **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, 2021 (SCI-Expanded)
- XXVII. **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.
APPLIED SCIENCES-BASEL, vol.11, no.13, 2021 (SCI-Expanded)
- 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.
BIOFUELS-UK, vol.12, no.6, pp.679-688, 2021 (SCI-Expanded)
- XXIX. **Editorial preface of the special issue on “progress in alternative fuels and energies”**
MOHAMED ATABANI A.
International Journal of Energy Research, vol.45, no.6, pp.8123-8124, 2021 (SCI-Expanded)
- XXX. **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.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.46, no.37, pp.19633-19644, 2021 (SCI-Expanded)
- XXXI. **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.
SCIENCE OF THE TOTAL ENVIRONMENT, vol.765, 2021 (SCI-Expanded)
- XXXII. **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.

International Journal of Hydrogen Energy, vol.46, no.20, pp.11199-11200, 2021 (SCI-Expanded)

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, vol.287, 2021 (SCI-Expanded)

XXXIV. **Techno-enviro assessment and ranking of Turkey for use of home-scale solar water heaters**

Siampour L., Vahdatpour S., Jahangiri M., Mostafaeipour A., Goli A., Shamsabadi A. A., MOHAMED ATABANI A. SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, vol.43, 2021 (SCI-Expanded)

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, vol.285, 2021 (SCI-Expanded)

XXXVI. **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.

BIORESOURCE TECHNOLOGY, vol.322, 2021 (SCI-Expanded)

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, vol.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, vol.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, vol.283, 2021 (SCI-Expanded)

XL. **Spectral, thermoanalytical characterizations, properties, engine and emission performance of complementary biodiesel-diesel-pentanol/octanol blends**

Atabani A., Al Kulthoom S.

Fuel, vol.282, 2020 (SCI-Expanded)

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, vol.11, pp.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, vol.279, 2020 (SCI-Expanded)

XLIII. **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.

FUEL, vol.278, 2020 (SCI-Expanded)

- 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.
BIORESOURTE TECHNOLOGY, vol.314, 2020 (SCI-Expanded)
- 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., Yıldız Y. Ş., Ünal S.
FUEL, vol.277, 2020 (SCI-Expanded)
- XLVI. **Experimental insight into co-combustion characteristics of oxygenated biofuels in modified DIC engine**
Alagumalai A., Mathimani T., Pugazhendhi A., MOHAMED ATABANI A., Brindhadevi K., Canh N. D.
FUEL, vol.278, 2020 (SCI-Expanded)
- 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**
Atabani A. E., Kumar G., Kim S.
FUEL, vol.277, 2020 (SCI-Expanded)
- XLVIII. **Biodiesel from Scenedesmus species: Engine performance, emission characteristics, corrosion inhibition and bioanalysis**
Pugazhendhi A., Arvindnarayan S., Shobana S., Dharmaraja J., Vadivel M., Atabani A. E., Chang S. W., Dinh Duc Nguyen D. D. N., Kumar G.
FUEL, vol.276, 2020 (SCI-Expanded)
- XLIX. **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.
FUEL, vol.276, 2020 (SCI-Expanded)
- 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**
MOHAMED ATABANI A., Mekaoussi M., Uguz G., Arpa O., Ayanoglu A., Shobana S.
Energy and Environment, vol.31, no.5, pp.755-784, 2020 (SSCI)
- 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., Yıldız Y. Ş., Unalan S., et al.
FUEL, vol.270, 2020 (SCI-Expanded)
- 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.
SUSTAINABILITY, vol.12, no.12, 2020 (SCI-Expanded)
- 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.
Bioresource Technology, vol.302, 2020 (SCI-Expanded)
- LVI. **A novel Microcystis aeruginosa supported manganese catalyst for hydrogen generation through**

methanolysis of sodium borohydride

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

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, no.23, pp.12755-12765, 2020 (SCI-Expanded)

- 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.
Waste and Biomass Valorization, vol.11, pp.1097-1113, 2020 (SCI-Expanded)
- LVIII. **Biogas Production from Organic Waste: Recent Progress and Perspectives**
Atelge M., Krisa D., Kumar G., Eskicioglu C., Nguyen D. D., Chang S. W., Atabani A., Al-Muhtaseb A. H., Ünal S.
Waste and Biomass Valorization, vol.11, pp.1019-1040, 2020 (SCI-Expanded)
- 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**
Atabani A., Pugazhendhi A., Al-Muhtaseb A. H., Kobayashi T., Lee C.
Waste and Biomass Valorization, vol.11, no.3, pp.1017, 2020 (SCI-Expanded)
- 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**
Atabani A., Kumar G.
International Journal of Hydrogen Energy, vol.45, no.10, pp.5757-5759, 2020 (SCI-Expanded)
- LXI. **Experimental investigation of effects on performance, emissions and combustion parameters of biodiesel–diesel–butanol blends in a direct-injection CI engine**
Örs İ., Sarıkoç S., Atabani A., Ünal S.
Biofuels, vol.11, no.2, pp.121-134, 2020 (SCI-Expanded)
- LXII. **Biobutanol from lignocellulosic biomass: bioprocess strategies**
Dharmaraja J., Shobana S., Arvindnarayan S., Vadivel M., MOHAMED ATABANI A., Pugazhendhi A., Kumar G.
LIGNOCELLULOSIC BIOMASS TO LIQUID BIOFUELS, pp.169-193, 2020 (SCI-Expanded)
- LXIII. **Synthesis and evaluation of oxidation stability of biodiesel prepared from spent bleaching clay residual oil**
Panhwar T., Mahesar S. A., Sherazi S. T. H., Laghari A. A., MOHAMED ATABANI A.
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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.
Energy Conversion and Management, vol.203, 2020 (SCI-Expanded)
- LXV. **Improved project control for sustainable development of construction sector to reduce environment risks**
Malik S., Fatima F., Imran A., Chuah L. F., Klemeš J. J., Khaliq I. H., Asif S., Aslam M., Jamil F., Durrani A. K., et al.
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- LXVI. **Harvesting of blooming microalgae using green synthesized magnetic maghemite (γ -Fe₂O₃) nanoparticles for biofuel production**
Duman F., Şahin U., Atabani A.
Fuel, vol.256, 2019 (SCI-Expanded)
- 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**
Bencheikh K., Atabani A., Shobana S., Mohammed M., Uğuz G., Arpa O., Kumar G., Ayanoğlu A., Bokhari A.
Sustainable Energy Technologies and Assessments, vol.35, pp.321-334, 2019 (SCI-Expanded)
- LXIX. **Anaerobic membrane bioreactors for wastewater treatment: Novel configurations, fouling control**

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Maaz M., Yasin M., Aslam M., Kumar G., Atabani A. I., Idrees M., Anjum F., Jamil F., Ahmad R., Khan A. L., et al. *BIORESOURCETECHNOLOGY*, vol.283, pp.358-372, 2019 (SCI-Expanded)

- LXX. **Integrated valorization of waste cooking oil and spent coffee grounds for biodiesel production: Blending with higher alcohols, FT-IR, TGA, DSC and NMR characterizations**
Atabani A. I., Shobana S., Mohammed M. N., Uguz G., Kumar G., Arvindnarayan S., Aslam M., Al-Muhtaseb A. H. *FUEL*, vol.244, pp.419-430, 2019 (SCI-Expanded)
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Energy Conversion and Management, SCI Journal, June 2016
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Metrics

Publication: 134
Citation (WoS): 6978
Citation (Scopus): 9114
H-Index (WoS): 40
H-Index (Scopus): 47

Congress and Symposium Activities

The 3rd International Conference on Alternative Fuels, Energy and Environment: Future and Challenges (ICAFEE2018), Attendee, Nanjing, China, 2018
The 2nd International Conference on Alternative Fuels and Energy: Future and Challenges (ICAFE2017), Attendee, Daegu, South Korea, 2017
The 1st International Conference on Alternative Fuels: Future and Challenges (ICAF2016), Attendee, Kayseri, Turkey, 2016
4th "International Conference on Renewable Energy: Generation and Applications" ICREGA'16, Session Moderator, Belfort, France, 2016

Scholarships

Bright Spark (BS), PhD, University, 2011 - Continues

Awards

MOHAMED ATABANI A. I., Recognized reviewer, ACS Publications, September 2017
MOHAMED ATABANI A. I., Recognized reviewer, Elsevier, February 2017
MOHAMED ATABANI A. I., Outstanding Reviewer, Elsevier, October 2016
MOHAMED ATABANI A. I., Recognized reviewer, Elsevier, June 2016
MOHAMED ATABANI A. I., Recognized reviewer, Elsevier, September 2015
MOHAMED ATABANI A. I., Young Conference Scholarship (presentation), German Jordanian University (GJU), Jordan, May 2015