



# Payam Ghorbannezhad

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/ *New technologies and aerospace engineering*

## Education

■ Ph.D: ,

## Research Interests

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## Journal Papers

■ Kinetics of thermal decomposition of crude oils: Insights from principal component analysis and products characterization

Payam Ghorbannezhad, Rukan Can Seyfeli, Kamil Serkan Uzyol, Selim Ceylan, Mudassir Hussain Tahir, Imtiaz Ali  
FUEL, Vol.359, pp. 130520-130532, 2024

■ Co-pyrolysis of municipal and horticultural wastes for enhanced biochar and bio-oil production: A response surface methodology approach

Payam Ghorbannezhad, Nesa Soleymani, Maryam Abbasi  
FUEL, Vol.350, pp. 128795-128803, 2023

■ A review of the thermochemistries of biomass gasification and utilisation of gas products

Carine T. Alves, Jude A. Onwudili, Payam Ghorbannezhad, Shogo Kumagai  
Sustainable Energy and Fuels, Vol.7, pp. 3505-3540, 2023

■ Biochar Production: Recent Developments, Applications, and challenges

Payam Danesh, Parsa Niaparast, Payam Ghorbannezhad, Imtiaz Ali  
FUEL, Vol.337, 2023

■ Optimal Modified Starch Content in UF Resin for Glulam Based on Bonding Strength Using Artificial Neural Network

Morteza Nazerian, Masood Akbarzadeh, Payam Ghorbannezhad, Antonios N. Papadopoulos, Elham Vatankhah, Dafni Foti, Mojtaba Koosha  
Journal of Composites Science, Vol.6, 2022

■ Optimization of Pyrolysis Temperature and Particle Size on the Phenols and Hemicellulose Fast Pyrolysis Products in a Tandem Micro-Pyrolyzer

Payam Ghorbannezhad, Maryam Abbasi  
Journal of Renewable Energy and Environment, Vol.8, pp. 68-74, 2021

- **Physico-chemical changes and maturity evaluation of composts from wood residue mixed with sewage sludge and chicken manure**  
 Mohammad Hossein Saghi, Payam Ghorbannezhad, Abotaleb Bay, Farangis Saeidi  
 International Journal Of Recycling of Organic Waste in Agriculture, Vol.10, pp. 175-184, 2021
- **Co-pyrolysis of biomass and plastic waste over zeolite- and sodium-based catalysts for enhanced yields of hydrocarbon products**  
 Payam Ghorbannezhad, Sunkyu Park, Jude A. Onwudili  
 WASTE MANAGEMENT, Vol.102, pp. 909-918, 2020
- **Sustainable production of value-added products from fast pyrolysis of palm shell residue in tandem micro-reactor and pilot plant**  
 Payam Ghorbannezhad, Kool Farhad, Hamidreza Rudi, Selim Ceylan  
 RENEWABLE ENERGY, Vol.145, pp. 663-670, 2020
- **Optimizing the mechanical properties of papers reinforced with refining and layer-by-layer treated recycled fibers using response surface methodology**  
 Hamidreza Rudi, Payam Ghorbannezhad, Martin A. Hubbe  
 CARBOHYDRATE POLYMERS, Vol.200, pp. 391-399, 2018
- **Sugarcane bagasse ex-situ catalytic fast pyrolysis for the production of Benzene, Toluene and Xylenes (BTX)**  
 Payam Ghorbannezhad, Mohammadreza Dehghani Firouzabadi, Ali Ghasemian, Paul de Wild, Hero Jan Heeres  
 JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS, Vol.131, pp. 1-8, 2018
- **Catalytic fast pyrolysis of sugarcane bagasse pith with HZSM-5 catalyst using tandem micro-reactor-GC-MS**  
 Payam Ghorbannezhad, Mohammadreza Dehghani Firouzabadi, Ali Ghasemian  
 Energy Sources Part A-Recovery Utilization and Environmental Effects, Vol.40, pp. 15-21, 2017
- **Health risk assessment of heavy metals via dietary intake of wheat in Golestan Province, Iran**  
 Mojgan Nejabat, Hadi Kahe, Farzin Hadizadeh, Payam Ghorbannezhad, Gholamreza Karimi, Kobra Shirani  
 HUMAN AND ECOLOGICAL RISK ASSESSMENT, Vol.23, pp. 1193-1201, 2017
- **Greenhouse emission pinch analysis (GEPA) for evaluation of emission reduction strategies**  
 Minhyun Kim, MinJeong Kim, SeHee Pyo, SeungChul Lee, Payam Ghorbannezhad, Dominic Chwan Yee Foo, ChangKyoo Yoo  
 Clean Technologies and Environmental Policy, Vol.18, pp. 1381-1389, 2016
- **Optimization of coagulation-flocculation process for medium density fiberboard (MDF) wastewater through response surface methodology**  
 Payam Ghorbannezhad, Abotaleb Bay, Mahmoud Yolmeh, Rahim Yadollahi, Javad Yazdan Moghadam  
 Desalination and Water Treatment, Vol.57, pp. 26916-26931, 2016
- **Cleaner production: a case study of Kaveh paper mill**  
 Payam Ghorbannezhad, Majid Azizi, Shih-Chan Ting, Mohammmd Layeghi, Omid Ramezani  
 International Journal of Sustainable Engineering, Vol.4, pp. 68-74, 2011
- **Estimation of demand for wood panels in Iran by the year of 2012**  
 Majid Azizi, Payam Ghorbannezhad, Hamid Hatefnia  
 JOURNAL OF FORESTRY RESEARCH, Vol.20, pp. 179-182, 2009

■ عملکرد پربلیت به عنوان جاذب بر تصفیه فیزیکی پساب صنایع سلولزی  
 علی پرتوی نیا، مهدی کشکولی، پیام قربان تژاد سرخلائی، مرتضی ناظریان  
 صنایع چوب و کاغذ ایران، نسخه ۱۳، صفحات: ۳۱۳-۳۲۳، ۱۴۰۰

■ طراحی سامانه های مناسب تصفیه فاضلاب در منابع تولید ورق های فشرده چوبی  
 پیام قربان تژاد سرخلائی، محمدرضا دهقانی فیروزآبادی، جواد یزدان مقدم  
 نشریه حفاظت و بهره برداری از منابع طبیعی، نسخه ۷، صفحات: ۷۷-۹۲، ۱۳۹۶

■ پالایش زیستی باگاس و مغز آن به روش پیرولیز سریع در راکتور بستر سیال  
پیام قربان تژاد سرخلائی، محمدرضا دهقانی فیروزآبادی، علی قاسمیان، پاول د ویلد، هیرو جان هیرس  
پژوهش های علوم و فناوری چوب و جنگل، نسخه ۲۴، صفحات: ۲۷-۴۰، ۱۳۹۵

## Conference Papers

■ Integrated bioenergy and biproducts systems from the agricultural and municipal wastes  
Payam Ghorbannezhad

■ Recent Advantages of Thermochemical Technologies from Bioenergy Production of Lignocellulosic Biomass  
Payam Ghorbannezhad, Amin Aryanfar, Javad Yazdan Moghadam

■ Reduction of Greenhouse Gas Emissions in Wastewater Treatment Plants by Using Carbon Emission Pinch Analysis (CEPA)  
Payam Ghorbannezhad  
The 5th Asia - Pasific Industrial Engineering and Management Systems Conference APIEMS 2004, Vol.1, pp.5-10

■ ارزیابی فنی اقتصادی جذب کربن و زیست توده در صنایع  
عرفان محسنی زاده، پیام قربان تژاد سرخلائی، بیژن یگانه، رضا آقاوالی  
نهمین کنفرانس بین المللی علوم کشاورزی، محیط زیست، توسعه شهری و روستایی

Faulty Sensor Detection, Identification and Reconstruction of Indoor Air Quality Measurements in a  
Subway Station ■

هونگ بین لیو، مینگ جی هوانگ، ایمان جان قربان، پیام قربان تژاد سرخلائی، چانگ کیو یوو  
کنفرانس فیزیک ایران، نسخه ۱، صفحات: ۳۲۳-۳۲۸

Catalytic co-pyrolysis of sugarcane bagasse residue with plastic wastes as a novel biorefinery route for  
biofuels and biochemicals in the pulp and paper sector ■

پیام قربان تژاد سرخلائی، د ویلد پاول، جان هیرو هیرس  
سمپوزیوم فولاد ۸۲، نسخه ۱، صفحات: ۱-۳

## M.Sc. Theses

■ Evaluation of water and energy consumption from cellulosic resources through multi criteria decision making  
case study for kasra yazd papermaking company.  
Hamidreza Montazery hedeshti  
2020