

List of publications and independent citations

Gábor Várhegyi

This is a list of the publications of which *Gábor Várhegyi* was an author/coauthor.

The independent citations (i.e. the works of other authors citing these publications) are also listed (with smaller characters).

The lists below were extracted from the *Hungarian National Scientific Bibliography* (MTMT) which collects citations from the *Scopus* and *Web of Science* databases.

Altogether 4806 independent citations are listed here. (Retrieved 9 January 2018.)

2017

1. Eszter Barta-Rajnai , Várhegyi Gábor , Liang Wang , Øyvind Skreiberg , Morten Grønli , Zsuzsanna Czégény
Thermal decomposition kinetics of wood and bark and their torrefied products
Energy Fuels 31: pp. 4024-4034. (2017)

2. L Wang , Eszter Barta-Rajnai , K Huc , C Higashic , Øyvind Skreiberg , Morten Grønli , Zsuzsanna Czégény , Emma Jakab , V Myrvågnesse , Várhegyi Gábor , Michael J Antal Jr
Biomass charcoal properties changes during storage
ENERGY PROCEDIA 105: pp. 830-835. (2017)
The 8th International Conference on Applied Energy – ICAE2016.

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- 1 *Nakashima GT, Martins MP, Hansted ALS, Yamamoto H, Yamaji FM*
Sugarcane trash for energy purposes: Storage time and particle size can improve the quality of biomass for fuel?
INDUSTRIAL CROPS AND PRODUCTS (ISSN: 0926-6690) 108: pp. 641-648. (2017)

2016

3. Várhegyi G
From "Sirups" to Biocarbons: A 30 Year Research Cooperation for Better Biomass Utilization with Michael J. Antal, Jr
ENERGY AND FUELS 30:(10) pp. 7887-7895. (2016)
4. Várhegyi G
In Honor of Michael J. Antal
ENERGY AND FUELS 30:(10) pp. 7809-+. (2016)
5. Wang L , Várhegyi G , Skreiberg Ø , Li T , Grønli M , Antal MJ

Combustion Characteristics of Biomass Charcoals Produced at Different Carbonization Conditions: A Kinetic Study

ENERGY AND FUELS 30:(4) pp. 3186-3197. (2016)

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- 1 *Kordoghli S, Paraschiv M, Kuncser R, Tazerout M, Zagrouba F*
Catalysts' influence on thermochemical decomposition of waste tires
ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY (ISSN: 1944-7442) 36: (5) pp. 1560-1567. (2017)
- 2 *Kordoghli S, Paraschiv M, Tazerout M, Khiari B, Zagrouba F*
Novel Catalytic Systems for Waste Tires Pyrolysis: Optimization of Gas Fraction
JOURNAL OF ENERGY RESOURCES TECHNOLOGY-TRANSACTIONS OF THE ASME (ISSN: 0195-0738) 139: (3) Paper 032203. (2017)

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6. Wang Liang , Várhegyi Gábor , Skreiberg Øyvind , Grønli Morten , Antal Michael J
Combustion characteristics of biomass charcoal produced at different carbonization conditions
In: Obernberger I , Baxter D , Grassi A , Helm P (ed.)
Proceedings of 23rd European Biomass Conference and Exhibition . Konferencia helye, ideje: Bécs , Austria , 01/06/2015 -04/06/2015. Bécs: ETA-Florence Renewable Energies, 2015. pp. 1196-1199.
Proceedings of 23rd European Biomass Conference and Exhibition
(ISBN:978-88-89407-516)
7. Wang Liang , Hu Kathryn , Higashi Charissa , Skreiberg Øyvind , Myrvågnes Viktor , Grønli Morten , Antal Michael J , Várhegyi Gábor
Effect of storage time and conditions on biomass charcoal properties
In: Obernberger I , Baxter D , Grassi A , Helm P (ed.)
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Proceedings of 23rd European Biomass Conference and Exhibition
(ISBN:978-88-89407-516)

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8. Wang L , Várhegyi G , Skreiberg O
CO₂ gasification of torrefied wood: A kinetic study
ENERGY AND FUELS 28:(12) pp. 7582-7590. (2014)

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- 1 *Kwapinska Marzena, Xue Gang, Horvat Alen, Rabou Luc P L M, Dooley Stephen, Kwapinski Witold, Leahy James J*
Fluidized Bed Gasification of Torrefied and Raw Grassy Biomass (*Miscanthus x giganteus*). The Effect of Operating Conditions on Process Performance
ENERGY AND FUELS (ISSN: 0887-0624) 29: (11) pp. 7290-7300. (2015)
- 2 *Alvarez Jon, Lopez Gartzen, Amutio Maider, Bilbao Javier, Olazar Martin*

- Kinetic Study of Carbon Dioxide Gasification of Rice Husk Fast Pyrolysis Char
ENERGY AND FUELS (ISSN: 0887-0624) 29: (5) pp. 3198-3207. (2015)
- 3 Márquez-Montesino F, Correa-Méndez F, Glauco-Sánchez C, Zanzi-Vigouroux R, Rutiaga-Quiñones JG, Aguiar-Trujillo L
Pyrolytic degradation studies of acacia mangium wood
BIORESOURCES (ISSN: 1930-2126) 10: (1) pp. 1825-1844. (2015)
- 4 Lopez Gartzzen, Alvarez Jon, Amutio Maider, Arregi Aitor, Bilbao Javier, Olazar Martin
Assessment of steam gasification kinetics of the char from lignocellulosic biomass in a conical spouted bed reactor
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- 5 Chen Handing, Chen Xueli, Qin Yueqiang, Wei Juntao, Liu Haifeng
Effect of torrefaction on the properties of rice straw high temperature pyrolysis char: Pore structure, aromaticity and gasification activity
BIORESOURCE TECHNOLOGY (ISSN: 0960-8524) 228: pp. 241-249. (2017)
- 6 Bach Q-V, Chen W-H, Sheen H-K, Chang J-S
Gasification kinetics of raw and wet-torrefied microalgae *Chlorella vulgaris* ESP-31 in carbon dioxide
BIORESOURCE TECHNOLOGY (ISSN: 0960-8524) 244: pp. 1393-1399. (2017)
- 7 Fan S, Xu L-H, Namkung H, Xu G, Kim H-T
Influence of Wet Torrefaction Pretreatment on Gasification of Larch Wood and Corn Stalk
ENERGY AND FUELS (ISSN: 0887-0624) 31: (12) pp. 13647-13654. (2017)
- 8 Gao Wei, Farahani Mohammad Reza, Rezaei Mehdi, Baig Abdul Qudair, Jamil Muhammad Kamran, Imran Muhammad, Rezaee-Manesh Reza
Kinetic modeling of biomass gasification in a micro fluidized bed
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS (ISSN: 1556-7036) 39: (7) pp. 643-648. (2017)

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9. Tapasvi D , Khalil R , Várhegyi G , Skreiberg O , Tran K-Q , Grønli M
Kinetic behavior of torrefied biomass in an oxidative environment
ENERGY AND FUELS 27:(2) pp. 1050-1060. (2013)

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- 1 Branca C, Di Blasi C
A unified mechanism of the combustion reactions of lignocellulosic fuels
THERMOCHIMICA ACTA (ISSN: 0040-6031) 565: pp. 58-64. (2013)
- 2 Li J, Biagini E, Yang WH, Tognotti L, Blasiak W
Flame characteristics of pulverized torrefied-biomass combusted with high-temperature air
COMBUSTION AND FLAME (ISSN: 0010-2180) 160: (11) pp. 2585-2594. (2013)
- 3 Ghiasi B, Kumar L, Furubayashi T, Lim CJ, Bi XT, Kim CS, Sokhansanj S
Densified biocoal from woodchips: Is it better to do torrefaction before or after densification?
APPLIED ENERGY (ISSN: 0306-2619) 134: pp. 133-142. (2014)
- 4 Berruenco C, Montane D, Guell BM, del Alamo G
Effect of temperature and dolomite on tar formation during gasification of torrefied biomass in a pressurized fluidized bed
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- 5 Nhuchhen DR, Basu P
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- 7 *Li J, Zhang XL, Pawlak-Kruczek H, Yang WH, Kruczek P, Wasiak W*
Process simulation of co-firing torrefied biomass in a 220 MWe coal-fired power plant
ENERGY CONVERSION AND MANAGEMENT (ISSN: 0196-8904) 84: pp. 503-511. (2014)
- 8 *Li J, Bonvicini G, Biagini E, Yang WH, Tognotti L*
Characterization of high-temperature rapid char oxidation of raw and torrefied biomass fuels
FUEL (ISSN: 0016-2361) 143: pp. 492-498. (2015)
- 9 *Lopez-Gonzalez D, Avalos-Ramirez A, Giroir-Fendler A, Godbout S, Fernandez-Lopez M, Sanchez-Silva L, Valverde J L*
Combustion kinetic study of woody and herbaceous crops by thermal analysis coupled to mass spectrometry
ENERGY (ISSN: 0360-5442) 90: pp. 1626-1635. (2015)
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Thermogravimetric analysis of the combustion of dry distiller's grains with solubles (DDGS) and pyrolysis char under kinetic control
FUEL PROCESSING TECHNOLOGY (ISSN: 0378-3820) 129: pp. 67-74. (2015)
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Torrefaction of cedarwood in a pilot scale rotary kiln and the influence of industrial flue gas
BIORESOURCING TECHNOLOGY (ISSN: 0960-8524) 177: pp. 355-360. (2015)
- 13 *Lee D, Kim B-J*
A study on the thermal properties and activation energy of rapidly torrefied oak wood powder using non-isothermal thermogravimetric analysis
Journal of the Korean Wood Science and Technology (ISSN: 1017-0715) 44: (1) pp. 96-105. (2016)
- 14 *Kumar Linoj, Koukoulas Alexander A, Mani Sudhagar, Satyavolu Jagannadh*
Integrating Torrefaction in the Wood Pellet Industry: A Critical Review
ENERGY AND FUELS (ISSN: 0887-0624) 31: (1) pp. 37-54. (2017)

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- 2 *Li KY, Huang XY, Fleischmann C, Rein G, Ji J*
Pyrolysis of Medium-Density Fiberboard: Optimized Search for Kinetics Scheme and Parameters via a Genetic Algorithm Driven by Kissinger's Method
ENERGY AND FUELS (ISSN: 0887-0624) 28: (9) pp. 6130-6139. (2014)
- 3 *Samuelsson Lina N, Babler Matthaues U, Moriana Rosana*
A single model-free rate expression describing both non-isothermal and isothermal pyrolysis of Norway Spruce
FUEL (ISSN: 0016-2361) 161: pp. 59-67. (2015)
- 4 *Anca-Couce A, Obernberger I*
Application of a detailed biomass pyrolysis kinetic scheme to hardwood and softwood torrefaction
FUEL (ISSN: 0016-2361) 167: pp. 158-167. (2016)
- 5 *Mattos Bruno D, Lourencon Tainise V, Gatto Darci A, Serrano Luis, Labidi Jalel*

Chemical characterization of wood and extractives of fast-growing *Schizolobium parahyba* and *Pinus taeda*

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6 Wang Jinxing, Zhao Haibo

Error evaluation on pyrolysis kinetics of sawdust using iso-conversional methods

JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY (ISSN: 1388-6150) 124: (3) pp. 1635-1640. (2016)

7 Anca-Couce Andres

Reaction mechanisms and multi-scale modelling of lignocellulosic biomass pyrolysis

PROGRESS IN ENERGY AND COMBUSTION SCIENCE (ISSN: 0360-1285) 53: pp. 41-79. (2016)

8 Khanh-Quang Tran, Hau-Huu Bui

Thermal Decomposition of Biochar from Oxidative Spruce Torrefaction - A Kinetic Study

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A kinetic study on simultaneously boosting the mass and fixed-carbon yield of charcoal production via atmospheric carbonization

In: Energy Procedia. (120) Elsevier Ltd, (2017.), pp. 333-340.

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Integrating compositional features in model compounds for a kinetic mechanism of hemicellulose pyrolysis

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Kinetics of pyrolysis of some biomasses widely available in Brazil

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12 Samuelsson Lina N, Umeki Kentaro, Babler Matthaus U

Mass loss rates for wood chips at isothermal pyrolysis conditions: A comparison with low heating rate powder data

FUEL PROCESSING TECHNOLOGY (ISSN: 0378-3820) 158: pp. 26-34. (2017)

13 Bercic Gorazd

The universality of Friedman's isoconversional analysis results in a model-less prediction of thermodegradation profiles

THERMOCHIMICA ACTA (ISSN: 0040-6031) 650: pp. 1-7. (2017)

11. Wang L , Sandquist J , Várhegyi G , Güell MB

CO₂ gasification of chars prepared from wood and forest residue: A kinetic study

ENERGY AND FUELS 27:(10) pp. 6098-6107. (2013)

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A new method to calculate kinetic parameters independent of the kinetic model: Insights on CO₂ and steam gasification

CHEMICAL ENGINEERING RESEARCH AND DESIGN (ISSN: 0263-8762) 95: pp. 346-357. (2015)

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Advances in CO₂ gasification reactivity of biomass char through utilization of radio frequency irradiation

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CO₂ gasification of bio-char derived from conventional and microwave pyrolysis

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- 9 *Parvez Ashak M, Mujtaba Iqbal M, Pang Chengheng, Lester Edward, Wu Tao*
Effect of the addition of different waste carbonaceous materials on coal gasification in CO₂ atmosphere
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- 3 *Magdziarz A, Wilk M*
Thermal characteristics of the combustion process of biomass and sewage sludge
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Effect of silane treatment on microstructure of sisal fibers
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 - 5 *Materazzi S, Risoluti R*
Evolved Gas Analysis by Mass Spectrometry
APPLIED SPECTROSCOPY REVIEWS (ISSN: 0570-4928) 49: (8) pp. 635-665. (2014)
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JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY (ISSN: 1388-6150) 118: (3) pp. 1789-1796. (2014)
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Consequences of sludge composition on combustion performance derived from thermogravimetry analysis
WASTE MANAGEMENT (ISSN: 0956-053X) 35: pp. 141-147. (2015)
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BIORESOURCE TECHNOLOGY (ISSN: 0960-8524) 132: pp. 423-426. (2013)

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 - 4 *Conesa JA, Uruena A, Diez D*
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ENERGY CONVERSION AND MANAGEMENT (ISSN: 0196-8904) 132: pp. 102-109. (2017)
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