

Publikációk a pályázat témájában:

1. Zoltán Sebestyén, Eszter Barta-Rajnai, Zsuzsanna Czégény, Thallada Bhaskar, Bhavya B. Krishna, Zoltán May, János Bozi, Zsolt Barta, Rawel Singh, Emma Jakab: Thermoanalytical Characterization and Catalytic Conversion of Deoiled Micro Algae and Jatropha Seed Cake, *Energy Fuels* 2016, 30, 7982-7993 (IF: 2.835)
2. Eszter Barta-Rajnai, Emma Jakab, Zoltán Sebestyén, Zoltán May, Zsolt Barta, Liang Wang, Øyvind Skreiberg, Morten Grønli, János Bozi, Zsuzsanna Czégény: Comprehensive Compositional Study of Torrefied Wood and Herbaceous Materials by Chemical Analysis and Thermoanalytical Methods; *Energy Fuels* 2016, 30, 8019-8030 (IF: 2.835)
3. Z. Sebestyén, E. Barta-Rajnai, J. Bozi, M. Blaszó, E. Jakab, N. Miskolczi, J. Sója, Zs. Czégény: Thermo-catalytic pyrolysis of biomass and plastic mixtures using HZSM-5, *Applied Energy* (IF:7.182)
4. E. Barta-Rajnai, L. Wang, Z. Sebestyén, Z. Bartac, R. Khalil, Ø. Skreiberg, M. Grønli, E. Jakab, Z. Czégény, Comparative study on the thermal behavior of untreated and various torrefied bark, stem wood and stump of Norway spruce, *Applied Energy* 204 (2017) 1043-1054 (IF: 7.182)
5. L. Wang, E. Barta-Rajnai, , Ø. Skreiberg, R. Khalil, Z. Czégény, E. Jakab, Z. Barta, M. Grønli, Effect of torrefaction on physiochemical characteristics and grindability of stem wood, stump and bark, *Applied Energy* (IF:7.182)
6. Z. Sebestyén, N. Miskolczi, E. Barta-Rajnai, E. Jakab, Zs. Czégény: Thermocatalytic Studies on Municipal Solid Waste, *Energy Procedia* 105, 2017, 706–711
7. Z. Sebestyén, E. Barta-Rajnai, J. Bozi, M. Blaszó, E. Jakab, N. Miskolczi, Zs. Czégény: Catalytic Pyrolysis of Biomass and Plastic Mixtures Using HZSM-5 Zeolite, *Energy Procedia* 105, 2017, 706–711
8. Norbert Miskolczi, Zsuzsanna Czégény: Thermo-Catalytic Pyrolysis of Waste Plastics from End of Life Vehicle, *MATEC Web of Conferences* 49, 2016, 05002 (DOI: <http://dx.doi.org/10.1051/mateconf/20164905002>)
9. Sója János, Sebestyén Zoltán, Czégény Zsuzsanna, Miskolczi Norbert: Polimer hulladékok hőbontására szolgáló technológiák, *GÉP*, 2017/1, 40-45, 2017
10. Barta-Rajnai Eszter; Pörkölt kévábab és hőkezelt biomassza, *Természet Világa* 148/2: 76-79 2017 február
11. Bozi János, Bakos Gabriella, Czégény Zsuzsanna, May Zoltán, Jakab Emma, Bálint Szabolcs, Blaszó Marianne; Autó motortereből származó gumicsövek termikus tulajdonságai és összetétele; *MŰANYAG- ÉS GUMIIPARI ÉVKÖNYV* (ISSN: 1589-6269) 14: pp. 78-85. (2016)

Angol nyelvű szóbeli előadások:

1. Pyrolysis of multicomponent plastic waste derived from end-of-life vehicles; J. Bozi, G. Bakos, Zs. Czégény, E. Jakab, E. Barta-Rajnai, Z. Sebestyén, N. Miskolczi, M. Blaszó; 21st International Symposium on Analytical and Applied Pyrolysis, 9-12 May 2016, Nancy, France
2. Effect of torrefaction on properties and pyrolysis behaviors of wood and bark; E. Barta-Rajnai, L. Wang, Z. Czégény, G. Várhegyi, R. Khalil, Ø. Skreiberg, M. Grønli; 21st International Symposium on Analytical and Applied Pyrolysis, 9-12 May 2016, Nancy, France
3. Pyrolysis of plastic waste derived from end-of-life vehicles, János Bozi, Gabriella Bakos, Zsuzsanna Czégény, Emma Jakab, Eszter Barta-Rajnai, Zoltán Sebestyén, Norbert Miskolczi, Marianne Blaszó; Mini-conference on biomass, waste and renewable energy; 6th June 2016, RCNS, HAS, Budapest, Hungary
4. Thermocatalytic studies on municipal solid waste, Zoltán Sebestyén, Norbert Miskolczi, Eszter Barta-Rajnai, Emma Jakab, Zsuzsanna Czégény; ICAE 2016 – The 8th International Conference on Applied Energy, October 8-11, Beijing, China
5. Effect of temperature and duration of torrefaction on the thermal behavior of stem wood, bark and stump of spruce, E. Barta-Rajnai, L. Wang, Z. Sebestyén, R. Khalil, Ø. Skreiberg, M. Grønli, E. Jakab, Z. Czégény; ICAE 2016 – The 8th International Conference on Applied Energy, October 8-11, Beijing, China
6. Z. Sebestyén, E. Jakab, N. Miskolczi, E. Barta-Rajnai, T. Bhaskar, Zs. Czégény: Thermal decomposition of municipal solid waste using different catalysts, 9th International Symposium on Feedstock Recycling of Polymeric Materials (9th ISFR 2017), July 10-13 Ostrava, Czech Republic, 2017
7. N. Miskolczi, Zs. Czégény, Z. Sebestyén, P. Gergo: Thermo-catalytic pyrolysis of waste polymers from End of Life Vehicle in horizontal tubular reactor, 4th 3R International Scientific Conference on Material Cycles and Waste Management, 8-10 March, New Delhi, India, 2017
8. E. Barta-Rajnai, J. Kumar, Z. Sebestyén, V. Dhyani, T. Bhaskar, E. Jakab, Z. May, Z. Czégény, Thermal decomposition of rape straw, wheat straw and black locust under torrefaction, 4th 3R International Scientific Conference on Material Cycles and Waste Management 8-10 March, New Delhi, India, 2017
9. Eszter Barta-Rajnai, Zoltán Sebestyén, Emma Jakab, Zoltán May, Zsuzsanna Czégény, Effect of the torrefaction temperature on the composition of liquid by-product derived from woody and herbaceous biomass, 4th 3R International Scientific Conference on Material Cycles and Waste Management, 8-10 March, New Delhi, India, 2017

10. Zoltán Sebestyén, Eszter Barta-Rajnai, Emma Jakab, Zsuzsanna Czégény, The composition of biooil during biomass pyrolysis at various temperatures, 19th International Conference on Bioenergy and Biorefineries, 2017.04.24-25 Boston, USA
11. E. Barta-Rajnai, L. Wang, Z. Sebestyén, Z. Barta, R. Khalil, Ø. Skreiberg, M. Grønli, E. Jakab, Z. Czégény, Thermoanalytical characterisation of torrefied stem wood, stump and bark of Norway spruce, 1st Journal of Thermal Analysis and Calorimetry Conference and 6th V4 Thermoanalytical Conference, June 6-9, 2017, Budapest, Hungary

Magyar nyelvű szóbeli előadások:

1. Sója János, Miskolczi Norbert, Czégény Zsuzsanna, Bózi János: Polimer hulladékok katalitikus pirólízise, Nemzetközi Vegyészkonferencia 2015, Szeptember 23-27, Csíkszereda, Románia, 2015
2. Alacsony hőmérsékletű hőkezelés hatása fa, tönk és kéreg tulajdonságaira, valamint termikus viselkedésére, Barta-Rajnai Eszter, Wang Liang , Czégény Zsuzsanna, Jakab Emma, Várhegyi Gábor, Khalil Roger, Skreiberg Øyvind, Grønli Morten;Termoanalitikai munkabizottsági ülés, Budapest, 2016.05.26
3. Sója János, Miskolczi Norbert, Czégény Zsuzsanna, Bozi János: Szilárd hulladékok krakkolásával előállított termékek, XXII. Nemzetközi Vegyészkonferencia 2016, október 3-6, Temesvár, Románia, 2016

Poszter előadások:

1. Pyrolysis of mixtures modeling municipal waste in the presence of catalysts; E. Barta-Rajnai, Z. Sebestyén, J. Bozi, E. Jakab, M. Blazsó, N. Miskolczi, Zs. Czégény; ATHENE'S CHEMISTRY conference; November 27 2015, Budapest, Hungary
2. Norbert Miskolczi, Zsuzsanna Czégény: Thermo-catalytic pyrolysis of waste plastics from end of life vehicle, 6th International Conference on Chemistry and Chemical Process (ICCCP 2016), 1-3 February, 2016 Rome, Italy, MATEC Web of Conferences 49, 05002 (2016)
3. Characterization of the liquid by-products obtained during torrefaction of typical Hungarian biomass waste materials; E. Barta-Rajnai, Z. Sebestyén, E. Jakab, Zs. Czégény; 21st International Symposium on Analytical and Applied Pyrolysis, 9-12 May 2016, Nancy, France
4. Fuels by recycling of waste plastics from end of life vehicles; Norbert Miskolczi, Zsuzsanna Czégény, Janos Bozi, Janos Soja; 21st International Symposium on Analytical and Applied Pyrolysis, 9-12 May 2016, Nancy, France
5. Catalytic Pyrolysis of Biomass and Plastic Mixtures using HZSM-5 Zeolite Z. Sebestyén, E. Barta-Rajnai, J. Bozi, M. Blazsó, E. Jakab, N. Miskolczi and Zs. Czégény; ICAE 2016 – The 8th International Conference on Applied Energy, October 8-11, Beijing, China

6. János Bozi, Zsuzsanna Czégény, Emma Jakab, Gabriella Bakos, Zoltán May, Szabolcs Bálint, Norbert Miskolczi, Marianne Blazsó: Pyrolysis of rubber hoses waste from end of life vehicles, 4th 3R International Scientific Conference on Material Cycles and Waste Management, 8-10 March, New Delhi, India, 2017
7. J. Sója, E. Tulok, N. Miskolczi, Zs. Czégény, Z. Sebestyén, Vaibhav Dhyani, Jitendra Kumar, T. Bhaskar: Determination of reaction kinetic parameters for waste plastic pyrolysis: effect of process scale up, 4th 3R International Scientific Conference on Material Cycles and Waste Management, 8-10 March, New Delhi, India, 2017
8. Bence Babinszki, Emma Jakab, Eszter Barta-Rajnai, Zoltán Sebestyén, Bhaskar Thallada, Jitendra Kumar, Zsuzsanna Czégény, Characterization of the solid residues of a hydrothermally treated azolla biomass; 9th International Symposium on Feedstock Recycling of Polymeric Materials (9th ISFR 2017), July 10-13 Ostrava, Czech Republic, 2017
9. Bence Babinszki, Eszter Barta-Rajnai, Emma Jakab, Zsuzsanna Czégény, Effect of Inorganic ions during torrefaction of biomass materials, 1st Journal of Thermal Analysis and Calorimetry Conference and 6th V4 Thermoanalytical Conference, June 6-9, 2017, Budapest, Hungary
10. Eszter Barta-Rajnai, Zoltán Sebestyén, Emma Jakab, Zsuzsanna Czégény, Torrefaction study of three typical Hungarian biomass materials, 1st Journal of Thermal Analysis and Calorimetry Conference and 6th V4 Thermoanalytical Conference, June 6-9, 2017, Budapest, Hungary