

**Technická univerzita v Košiciach**  
**Prehľad publikačnej činnosti vrátane ohlasov**  
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**Skupina A1 - Knižné publikácie charakteru vedeckej monografie (AAA, AAB, ABA, ABB, ABC, ABD)**

**Počet záznamov: 2**

AAB - Vedecké monografie vydané v domácich vydavateľstvách (1)

ABC - Kapitoly vo vedeckých monografiách vydané v zahraničných vydavateľstvách (1)

**Skupina A2 - Ostatné knižné publikácie (ACA, ACB, BAA, BAB, BCB, BCI, EAI, CAA, CAB, EAJ, FAI)**

**Počet záznamov: 4**

ACB - Vysokoškolské učebnice vydané v domácich vydavateľstvách (1)

BCI - Skriptá a učebné texty (3)

**Skupina B - Publikácie v karentovaných vedeckých časopisoch a autorské osvedčenia, patenty a objavy (ADC, ADD, AEG, AEH, BDC, BDD, CDC, CDD, AGJ)**

**Počet záznamov: 7**

ADC - Vedecké práce v zahraničných karentovaných časopisoch (7)

**Skupina C - Ostatné recenzované publikácie (ACC, ACD, ADE, ADF, AEC, AED, AFA, AFB, AFC, AFD, AFE, AFF, AFG, AFH, BBA, BBB, BCK, BDA, BDB, BDE, BDF, BEC, BED, BFA, BFB, BGH, CDE, CDF)**

**Počet záznamov: 84**

ADE - Vedecké práce v zahraničných nekarentovaných časopisoch (11)

ADF - Vedecké práce v domácich nekarentovaných časopisoch (16)

AEC - Vedecké práce v zahraničných recenzovaných vedeckých zborníkoch, monografiách (4)

AFC - Publikované príspevky na zahraničných vedeckých konferenciách (36)

AFD - Publikované príspevky na domácich vedeckých konferenciách (16)

AFG - Abstrakty príspevkov zo zahraničných konferencií (1)

**Skupina N - Nové kategórie EPC v zmysle Vyhlášky č. 456/2012 (ADM, ADN, AEM, AEN, BDM, BDN, CBA, CBB)**

**Počet záznamov: 7**

ADM - Vedecké práce v zahraničných časopisoch registrovaných v databázach Web of Science alebo SCOPUS (4)

ADN - Vedecké práce v domácich časopisoch registrovaných v databázach Web of Science alebo SCOPUS (3)

**Skupina D - Ostatné - mimo kategórií MŠSR**

**Počet záznamov: 52**

AEE - Vedecké práce v zahraničných nerecenzovaných vedeckých zborníkoch, monografiách (3)

AEF - Vedecké práce v domácich nerecenzovaných vedeckých zborníkoch, monografiách (1)

AGI - Správy o vyriešených vedeckovýskumných úlohách (44)

BEF - Odborné práce v domácich nerecenzovaných zborníkoch (konferenčných aj nekonferenčných) (1)

DAI - Dizertačné a habilitačné práce (2)

GAI - Výskumné štúdie a priebežné správy (1)

**Počet záznamov spolu: 156**

**Menný zoznam publikácií:**

**AAB - Vedecké monografie vydané v domácich vydavateľstvách(1)**

AAB001 [160296] **Tradičné a alternatívne palivá v metalurgii** / Jaroslav Legemza, Mária Fröhlichová, Róbert Findorák - 1. vyd. - Košice : TU - 2015. - 286 s.. - ISBN 978-80-553-2154-7.  
[LEGEMZA, Jaroslav (34%) - FRÖHLICHOVÁ, Mária (33%) - FINDORÁK, Róbert (33%)]

**ABC - Kapitoly vo vedeckých monografiách vydané v zahraničných vydavateľstvách(1)**

ABC001 [199563] **Ecological aspects of agglomerate production using biomass** / Jaroslav Legemza ... [et al.] - 2018.In: Modern Production of Metal Materials and its Ecological and Economic Aspects. - Ostrava (Česko) : Vysoká škola báňská – Technická univerzita Ostrava s. 13-35 [print]. - ISBN 978-80-248-4204-2  
[LEGEMZA, Jaroslav (20%) - FRÖHLICHOVÁ, Mária (20%) - FINDORÁK, Róbert (20%) - DŽUPKOVÁ, Martina (20%) - SEMANOVÁ, Zuzana (20%)]

#### **ACB - Vysokoškolské učebnice vydané v domácich vydavateľstvách(1)**

ACB001 [39935] **Hutníctvo železa** / Mária Fröhlichová ... [et al.] - 1. vyd - Košice : TU - 2004. - 151 s. - ISBN 80-8073-184-5.  
[FRÖHLICHOVÁ, Mária (50%) - LEGEMZA, Jaroslav (20%) - KUCKOVÁ, Anna (25%) - MAJERČÁK, Štefan (5%)]

#### **ADC - Vedecké práce v zahraničných karentovaných časopisoch(7)**

ADC001 [137004] **Structural Analysis of Sinter with Titanium Addition** / M. Fröhlichová, R. Findorák, J. Legemza - 2013.In: Archives of Metallurgy and Materials. Vol. 58, no. 1 (2013), p. 179-185. - ISSN 1733-3490  
[FRÖHLICHOVÁ, Mária (34%) - FINDORÁK, Róbert (33%) - LEGEMZA, Jaroslav (33%)]

##### **Ohlasy:**

2014 [1] REN, Z.-P. et al. NO<sub>x</sub> and SO<sub>2</sub> formation in the sintering process and influence of sintering material composition on NO<sub>x</sub> emissions In: Huanjing Kexue/Environmental Science Vol. 35, no. 10 (2014), p. 3669-3673 ISSN: 0250-3301

2014 [3] PUSTEJOVSKA, P. et al. Wykorzystanie odpadów hutniczych w Republice Czeskiej i Polsce In: Hutnik, Wiadomości Hutnicze Vol. 81, no. 3 (2014), p. 172-175 ISSN: 1230-3534

2017 [1] JURSOVA, Simona, , et al. Evaluation of reducibility of high and low basic sinter in economical point of view In: METAL 2017 : 26th International Conference on Metallurgy and Metals : Brno, 24-26 May, 2017 P. 2176-2181 ISBN: 978-808729479-6

2017 [3] JURSOVA, Simona - PUSTEJOVSKA, Pavlina - BROZOVA, Silvie Study on reducibility and porosity of metallurgical sinter In: Alexandria Engineering Journal Vol. 2017 (2017), p. 1-8 ISSN: 1110-0168

2018 [1] JURSOVA, Simona - PUSTEJOVSKA, Pavlina - BROZOVA, Silvie Study on reducibility and porosity of metallurgical sinter In: Alexandria engineering journal Vol. 57, no. 3 (2018), p. 1657-1664 ISSN: 1110-0168

2015 [3] JURSOVÁ, S. et al. Evaluation of low-reducible sinter in blast furnace technology by mathematical model developed at Centre ENET, VSB–Technical university of Ostrava In: World Academy of Science, Engineering and Technology Vol. 9, no. 5 (2015), p. 628-631 ISSN: 1307-631

2015 [1] JURSOVA, Simona - PUSTEJOVSKÁ, Pavlína - BROZOVA Silvie Porosity of Metallurgical Sinter and Possibilities of its Testing In: SGEM 2015 : 15th international Multidisciplinary Scientific Geoconference : Ecology, Economics, Education and Legislation : vol. 1 : Albena, Jun 18-24, 2015 P: 659-665 ISSN: 1314-2704 ISBN: 978-619-7105-31-5

ADC002 [151533] **Biomass as a source of energy in iron ore agglomerate production process** / Mária Fröhlichová ... [et al.] - 2014.In: Archives of Metallurgy and Materials. Vol. 59, no. 2 (2014), p. 815-820. - ISSN 2300-1909 Spôsob prístupu: [http://www.imim.pl/files/archiwum/Vol2\\_2014/67.pdf](http://www.imim.pl/files/archiwum/Vol2_2014/67.pdf).  
[FRÖHLICHOVÁ, Mária (33%) - LEGEMZA, Jaroslav (33%) - FINDORÁK, Róbert (33%) - MAŠLEJOVÁ, Alica (1%)]

##### **Ohlasy:**

2014 [3] BUTKOVSKA, M. et al. Quality parameters of agglomerate produced using biofuel as a substitute for coke breeze In: Hutnik, Wiadomości Hutnicze Vol. 81, no. 11 (2014), p. 737-739 ISSN: 1230-3534

2015 [3] EL-HUSSINY, N. A. et al. Effect of replacement coke breeze by charcoal on technical operation of iron ore sintering In: International Journal of Scientific Engineering Research Vol. 6, no. 2 (2015), p. 681-686 ISSN: 2229-5518

2017 [1] JHA, Gaurav - SOREN, S. Study on applicability of biomass in iron ore sintering process In: Renewable and Sustainable Energy Reviews Vol. 80 (2017), p. 399-407 ISSN: 1364-0321

ADC003 [168240] **Iron-Ore Sintering Process Optimization** / Mária Fröhlichová ... [et al.] - 2015.In: Archives of Metallurgy and Materials. Vol. 60, no. 4 (2015), p. 2895-2899. - ISSN 1733-3490 Spôsob prístupu: [http://www.imim.pl/files/archiwum/Vol4\\_2015/64.pdf](http://www.imim.pl/files/archiwum/Vol4_2015/64.pdf).  
[FRÖHLICOVÁ, Mária (30%) - IVANIŠIN, Dušan (10%) - MAŠLEJOVÁ, Alícia (10%) - FINDORÁK, Róbert (25%) - LEGEMZA, Jaroslav (25%)]

ADC004 [174318] **Thermal degradation and kinetic study of sawdusts and walnut shells via thermal analysis** / Róbert Findorák ... [et al.] - 2016.In: Journal of Thermal Analysis and Calorimetry. Vol. 125, no. 2 (2016), p. 689-694. - ISSN 1388-6150

[FINDORÁK, Róbert (47%) - FRÖHLICOVÁ, Mária (24%) - LEGEMZA, Jaroslav (24%) - FINDORÁKOVÁ, Lenka (5%)]

#### Ohlasy:

2017 [1] YU, Xinting The effect of adsorbed liquid and material density on saltation threshold: Insight from laboratory and wind tunnel experiments In: Icarus Vol. 297 (2017), p. 97-109 ISSN: 0019-1035

2017 [1] AL-QAYIM, Khalidah et al. Kinetic parameters of the intrinsic reactivity of woody biomass and coal chars via thermogravimetric analysis In: Fuel Vol. 210 (2017), p. 811-825 ISSN: 0016-2361

2017 [1] FINDORÁKOVÁ, Lenka - ŠESTINOVÁ, Oľga - KOVÁČOVÁ, Milota Assessment of potential sediment contamination using screening methods (XRF, TGA/MS) taking into account principles of green chemistry, Eastern Slovakia In: Environmental Earth Sciences Vol. 76, no. 3 (2017), art. no. 119 ISSN: 1866-6280

2017 [1] ZHANG, Yuan-Hu et al. Thermal destruction of luffa sponge under air and nitrogen In: Journal of Thermal Analysis and Calorimetry Vol. 128, no. 1 (2017), p. 53-60 ISSN: 1388-6150

2017 [1] GALYSH, V. et al. Impact of ferrocyanide salts on the thermo-oxidative degradation of lignocellulosic sorbents In: Journal of Thermal Analysis and Calorimetry Vol. 128, no. 2 (2017), p. 1019-1025 ISSN: 1388-6150

2018 [1] MARTINKA, Jozef - RANTUCH, Peter - LINER, Maroš Calculation of charring rate and char depth of spruce and pine wood from mass loss In: Journal of Thermal Analysis and Calorimetry Vol. 132, no. 2 (2018), p. 1105-1113 ISSN: 1388-6150

2018 [1] MISSE, Samuel Epesse, et al. Thermogravimetric analyses and kinetic modeling of three Cameroonian biomass In: Journal of Thermal Analysis and Calorimetry Vol. 132, no. 3 (2018), p. 1979-1994 ISSN: 1388-6150

2019 [1] MARTINKA, J. et al. Assessing the fire risk of electrical cables using a cone calorimeter In: Journal of Thermal Analysis and Calorimetry Vol. 135, no. 6(2019), p. 3069-3083 ISSN: 1388-6150

2018 [1] SHAH, Mudasir Akbar / KHAN, M.N.S. - KUMAR, Vimal Biomass residue characterization for their potential application as biofuels In: Journal of Thermal Analysis and Calorimetry Vol. 134, no. 3 (2018), p. 2137-2145 ISSN: 1388-6150

2018 [1] KOBELNIK, Marcelo et al. Thermal study of chalcones In: Journal of Thermal Analysis and Calorimetry Vol. 132, no. 1 (2018), p. 425-431 ISSN: 1388-6150

ADC005 [198739] **The fusion characteristics of ashes from lignin and the coke breeze** / M. Fröhlichová ... [et al.] - 2018.In: Archives of Metallurgy and Materials = AMM : the Journal of Institute of Metallurgy and Materials Science and Committee on Metallurgy of Polish Academy of Sciences. Roč. 63, č. 3 (2018), s. 1523-1530 [print]. - ISSN 1733-3490  
[FRÖHLICOVÁ, Mária (40%) - FINDORÁK, Róbert (20%) - LEGEMZA, Jaroslav (20%) - DŽUPKOVÁ, Martina (20%)]

ADC006 [200600] **Influence of intensification factors on quality of fe agglomerates made with alternative fuel** / Zuzana Semanová ... [et al.] - 2018.In: Archives of Metallurgy and Materials : AMM : the Journal of Institute of Metallurgy and Materials Science and Committee on Metallurgy of Polish Academy of Sciences. Roč. 63, č. 4 (2018), s. 1853-1857 [print]. - ISSN 1733-3490 Spôsob prístupu:  
[https://apps.webofknowledge.com/full\\_record.do?product=CCC&search\\_mode=GeneralSearch&qid=11&SID=D1cNQgdMZiqJIE4aQZ8&page=1&doc=4](https://apps.webofknowledge.com/full_record.do?product=CCC&search_mode=GeneralSearch&qid=11&SID=D1cNQgdMZiqJIE4aQZ8&page=1&doc=4).  
[SEMANOVÁ, Zuzana (20%) - LEGEMZA, Jaroslav (20%) - HRUBOVČÁKOVÁ, Martina (20%) - FINDORÁK, Róbert (20%) - FRÖHLICOVÁ, Mária (20%)]

ADC007 [200669] **The effect of concentrateiron ore ratio change on agglomerate phase composition** / Mária Fröhlichová ... [et al.] - 2018.In: Metals. - Basel (Švajčiarsko) : MDPI Roč. 8, č. 11 (2018), s. 1-11 [online]. - ISSN 2075-4701 (online)  
[FRÖHLICOVÁ, Mária (30%) - IVANIŠIN, Dušan (10%) - FINDORÁK, Róbert (20%) - DŽUPKOVÁ, Martina (20%) - LEGEMZA, Jaroslav (20%)]

#### Ohlasy:

2019 [1] LI, Zushu, DAVIS, Claire Ironmaking and Steelmaking In: Metals Vol. 9, no. 5(2019), p. 525 ISSN: 2075-4701

#### ADE - Vedecké práce v zahraničných nekarentovaných časopisoch(11)

ADE001 [62445] **Aglomerácia železorudných materiálov a možnosti zníženia emisií v tomto procese** / M. Sajková ... [et al.] - 2006.In: Prace Instytutu Metalurgii Zelaza. Vol. 58, no. 4 (2006), p. 1-4. - ISSN 0137-9941  
[SAJKOVÁ, Martina - FRÖHLICOVÁ, Mária - LEGEMZA, Jaroslav - FINDORÁK, Róbert]

ADE002 [62702] **The thermodynamic study of dust and sludge from iron and steel industry** / J. Legemza, R. Findorák, M. Sajková - 2006.In: Prace instytutu metalurgii zelaza. Tom 58, no. 4 (2006), p. 125-127. - ISSN 0137-9941  
[LEGEMZA, Jaroslav - FINDORÁK, Róbert - SAJKOVÁ, Martina]

ADE003 [62703] **Úžitkové vlastnosti aglomeračných rúd** / R. Findorák...[et al.] - 2006.In: Prace instytutu metalurgii zelaza. Vol. 58, no. 4 (2006), 4 p. - ISSN 0137-9941  
[FINDORÁK, Róbert (30%) - BAKAJ, Filip (25%) - FRÖHLICOVÁ, Mária (15%) - SAJKOVÁ, Martina (15%) - LEGEMZA, Jaroslav (15%)]

ADE004 [102825] **Effect of the underpressure sucking air on the emissions CO and CO2 in the sintering process** / F. Bakaj ... [et al.] - 2009.In: Prace Instytutu Metalurgii Zelaza. Vol. 61, no. 5 (2009), p. 3-5. - ISSN 0137-9941  
[BAKAJ, Filip (25%) - LEGEMZA, Jaroslav (25%) - FRÖHLICOVÁ, Mária (25%) - FINDORÁK, Róbert (25%)]

ADE005 [102888] **Effect of high content of concentrate in sinter mixture on chosen emission parameters** / R. Findorák ... [et al.] - 2009.In: Prace Instytutu Metalurgii Zelaza. Vol. 61, no. 5 (2009), p. 15-17. - ISSN 0137-9941

[FINDORÁK, Róbert (25%) - FRÖHLICOVÁ, Mária (25%) - LEGEMZA, Jaroslav (25%) - BAKAJ, Filip (25%)]

**Ohlasy:**

2013 [2] ČERNÍK, M., MAŠLEJOVÁ, A., HRABČÁKOVÁ, L. X-Ray diffraction analysis of sludge and dust produced in steelworks In: Acta Metallurgica Slovaca Roč. 19, č. 3 (2013), s. 206-211 ISSN: 1335-1532

ADE006 [102663] **The process of simulating the iron ores agglomerate production under laboratory conditions** / Mária Fröhlichová ... [et al.] - 2010.In: Hutník. Vol. 77, no. 9 (2010), p. 450-454. - ISSN 1230-3534

[FRÖHLICOVÁ, Mária (25%) - LEGEMZA, Jaroslav (25%) - FINDORÁK, Róbert (25%) - BAKAJ, Filip (25%)]

**Ohlasy:**

2011 [3] BROZOVA, S., PUSTEJOVSKA, P. Use of Low-temperature Plasma for Disposal of Electric Waste and Evaluation of Suitability In: Hutník, Wiadomości hutnicze Vol. 78, no. 9 (2011), p. 808-811 ISSN: 1230-3534

ADE007 [121537] **Use of Natural Materials for the Modelling of Steel Refinery Slags** / Katarína Hakulinová, Jaroslav Legemza - 2012.In: International Journal of Energy Engineering. Vol. 2, no. 2 (2012), p. 46-50. - ISSN 2225-6571  
[HAKULINOVÁ, Katarína (90%) - LEGEMZA, Jaroslav (10%)]

ADE008 [186445] **Study of thermal decomposition of biomass, as an alternatives to coke in the iron ore agglomerate production process** / Róbert Findorák, Mária Fröhlichová, Jaroslav Legemza - 2017.In: Hutník: Wiadomosci hutnicze. Vol. 84, no. 11 (2017), p. 469-472. - ISSN 1230-3534  
[FINDORÁK, Róbert (34%) - FRÖHLICOVÁ, Mária (33%) - LEGEMZA, Jaroslav (33%)]

ADE009 [186446] **Influence of properties of low grade Mn ore on the sintering proces and qaulity of produced Mn sinters** / Zuzana Semanová ... [et al.] - 2017.In: Hutník: Wiadomosci hutnicze. Vol. 84, no. 11 (2017), p. 473-476. - ISSN 1230-3534  
[SEMANOVÁ, Zuzana (60%) - LEŠKO, Jaroslav (10%) - LEGEMZA, Jaroslav (20%) - DŽUPKOVÁ, Martina (10%)]

ADE010 [189268] **Vliv antracitu na proces spékání a kvalitu aglomerátu** / Petr Klus ... [et al.] - 2017.In: Hutnické listy. Vol. 70, no. 4 (2017), p. 35-39. - ISSN 0018-8069  
[KLUS, Petr (40%) - SZTURC, Roman (10%) - FARUZEL, Petr (10%) - HERMANN, Radek (10%) - FINDORÁK, Róbert (10%) - FRÖHLICOVÁ, Mária (10%) - LEGEMZA, Jaroslav (10%)]

ADE011 [208566] **Modelling of Mass and Thermal Balance and Simulation of Iron Sintering Process with Biomass** / Jaroslav Legemza ... [et al.] - 2019.In: Metals. - Basel (Švajčiarsko) : Multidisciplinary Digital Publishing Institute Roč. 9, č. 9 (2019), s. 1-18 [online]. - ISSN 2075-4701 (online) Spôsob prístupu: <https://www.mdpi.com/2075-4701/9/9/1010/htm>.  
[LEGEMZA, Jaroslav (25%) - FRÖHLICOVÁ, Mária (25%) - FINDORÁK, Róbert (25%) - DŽUPKOVÁ, Martina (25%)]

**ADF - Vedecké práce v domácich nekarentovaných časopisoch(16)**

ADF001 [0011407] **Minimalizácia emisií oxidov uhlíka v aglomeráčnom procese** / Anton Trišč, Peter Ballók, Jaroslav Legemza - 1995.In: Acta Metallurgica Slovaca. Roč. 1, č. 1 (1995), s. 61-67. - ISSN 1335-1532

[TRIŠČ, Anton - BALLÓK, Peter - LEGEMZA, Jaroslav]

ADF002 [0011380] **Štúdium medzifázového rozhrania tavenina - oxid v metalizovaných aglomeráciách** / Jaroslav Legemza, Štefan Majerčák - 1997.In: Acta Metallurgica Slovaca. Roč. 3, special issue 1/2 (1997), s. 306-312. - ISSN 1335-1532

[LEGEMZA, Jaroslav - MAJERČÁK, Štefan]

ADF003 [0010899] **Možnosti využitia konvertorových úletov** / Jaroslav Legemza - 1999.In: Acta Metallurgica Slovaca. Roč. 5, č. special issue 3/1999 (1999), s. 208-213. - ISSN 1335-1532  
[LEGEMZA, Jaroslav]

ADF004 [0012034] **The radioactivity of the recyclable materials** / J. Legemza, Š. Majerčák - 2001.In: Acta Metallurgica Slovaca. Roč. 7, mimoriadne č. 5 (2001), s. 113-116. - ISSN 1335-1532  
[LEGEMZA, Jaroslav - MAJERČÁK, Štefan]

ADF005 [33324] **The possibilities of utilitizing of dust and sludge from steel industry** = Možnosti využitia prachu a kalu z oceliarenskeho priemyslu / J. Legemza - 2004.In: Acta Metallurgica Slovaca. Roč. 10, č. 2 (2004), s. 80-87. - ISSN 1335-1535

[LEGEMZA, Jaroslav (100%)]

**Ohlasy:**

2011 [1] MOUSSAVI, M., FATHIKALAJAHI, J., KHALILI, F. How to minimize iron loss while decontaminating converter dust from lead In: Environmental Technology Vol. 32, no. 15 (2011), p. 1729-1734 ISSN: 0959-3330

ADF006 [33334] **Termodynamické štúdium oceliarenského prachu a kalu** / J. Legemza - 2004.In: Acta Metallurgica Slovaca. Roč. 10, č. 3 mimoriadne (2004), s. 573-576. - ISSN 1335-1532  
[LEGEMZA, Jaroslav (100%)]

ADF007 [33340] **Štúdium rozpúšťania hliníka v tavenine železa** = The study of aluminium dissolution in iron melting / P. Cengel, J. Legemza, Z. Tamášová - 2004.In: Acta Metallurgica Slovaca. Roč. 10, č. 3 mimoriadne (2004), s. 404-408. - ISSN 1335-1532  
[CENGEL, Peter (50%) - LEGEMZA, Jaroslav (30%) - TAMÁŠOVÁ, Zuzana (20%)]

ADF008 [72983] **Hodnotenie viskozity trosiek z výroby FeMnC a FeSiMn** / L. Forraiová, J. Legamza, M. Fröhlichová - 2007.In: Acta Metallurgica Slovaca. Roč. 13, mimoriadne č. 5 (2007), s. 430-433. - ISSN 1335-1532  
[FORRAIOVÁ, Lenka (60%) - LEGEMZA, Jaroslav (20%) - FRÖHLICHOVÁ, Mária (20%)]

ADF009 [72986] **Termodynamické štúdium vplyvu CO a CO<sub>2</sub> na chloračné spracovanie úletov z výroby železa a ocele** / J. Legamza ... [et al.] - 2007.In: Acta Metallurgica Slovaca. Roč. 13, mimoriadne č. 5 (2007), s. 389-394. - ISSN 1335-1532  
[LEGEMZA, Jaroslav (60%) - FRÖHLICHOVÁ, Mária (5%) - FINDORÁK, Róbert (5%) - DŽUPKOVÁ, Martina (5%) - DEMETER, Peter (5%) - ŠABÍKOVÁ, Miroslava (5%) - FORRAIOVÁ, Lenka (5%) - BOHUŠOVÁ, Magdaléna (5%) - LEŠINSKÝ, Gabriel (5%)]

ADF010 [82828] **Aplikácia teplárenského odpadu v aglomeračnej vsádzke** / R. Findorák ... [et al.] - 2007.In: Acta Metallurgica Slovaca. Roč. 13, mimoriadne číslo 5 (2007), s. 81-84. - ISSN 1335-1532  
[FINDORÁK, Róbert (40%) - BAKAJ, Filip (25%) - MALIŇÁK, Róbert (15%) - LEGEMZA, Jaroslav (10%) - DŽUPKOVÁ, Martina (10%)]

ADF011 [122840] **Possibilities of application the titanium ore into the sintering mixture** / Róbert Findorák ... [et al.] - 2011.In: Acta Metallurgica Slovaca. Roč. 17, č. 3 (2011), s. 186-192. - ISSN 1335-1532  
[FINDORÁK, Róbert (20%) - FRÖHLICHOVÁ, Mária (20%) - LEGEMZA, Jaroslav (20%) - BAKAJ, Filip (20%) - DŽUPKOVÁ, Martina (20%)]

ADF012 [122850] **Evaluation of selected technological and ecological parameters of sinter production** / Martina Džupková ... [et al.] - 2011.In: Acta Metallurgica Slovaca. Roč. 17, č. 4 (2011), s. 269-275. - ISSN 1335-1532  
[DŽUPKOVÁ, Martina (25%) - FRÖHLICHOVÁ, Mária (25%) - LEGEMZA, Jaroslav (25%) - FINDORÁK,

Róbert (25%)]

**Ohlasy:**

2013 [2] ČERNÍK, M. et al. X-Ray diffraction analysis of sludge and dust produced in steelworks In: Acta Metallurgica Slovaca Roč. 19, č. 3 (2013), s. 206-211 ISSN: 1335-1532

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AGI001 [148130] **Výskum elektródových hmôt používaných v NCHZ, a.s.** Záverečná správa úlohy č. 49-HF03/ Jaroslav Legemza, Ľudovít Bobok - Košice : TU - 2003. - 15 s..  
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AGI002 [148145] **Verifikácia spracovania jemnozrnných kovonosných materiálov v rotačnej peci** Výskumná správa podľa ZoD č. 45-HF05/ Mária Fröhlichová ... [et al.] - Košice : TU - 2005. - 55 s..  
[FRÖHLICHOVÁ, Mária (20%) - LEGEMZA, Jaroslav (40%) - FINDORÁK, Róbert (30%) - DEMETER, Peter (10%)]

AGI003 [148146] **Metalurgické aspekty odlievania zlievarenských zliatin** Výskumná správa podľa ZoD č. 50-HF05-1/ Mária Fröhlichová ... [et al.] - Košice : TU - 2005. - 36 s..  
[FRÖHLICHOVÁ, Mária (10%) - LEGEMZA, Jaroslav (40%) - FINDORÁK, Róbert (30%) - BOBOK, Ľudovít (10%) - MALIK, Jozef (10%)]

AGI004 [148127] **Eliminácia zinku procesom chlorácie - 1. etapa** Teoretické a termodynamické štúdium : Technická pomoc podľa AG 437060465 : Z o D č. P-102-003206/ Jaroslav Legemza ... [et al.] - Košice : TU - 2006. - 132 s..

[LEGEMZA, Jaroslav (40%) - FRÖHLICHOVÁ, Mária (5%) - FRÖHLICH, Ladislav (5%) - VADÁSZ, Pavol (10%) - RABATIN, Ľudovít (20%) - FINDORÁK, Róbert (15%) - DŽUPKOVÁ, Martina (1%) - DEMETER, Peter (2%) - ČIŽMÁROVÁ, Miroslava (1%) - FORRAIOVÁ, Lenka (1%)]

AGI005 [148131] **Stanovenie chemických, fyzikálnych a mechanických vlastností elektródových hmôt** Záverečná správa úlohy č. 09HF2006PČ/ Jaroslav Legemza, Ľudovít Bobok - Košice : TU - 2006. - 35 s..

[LEGEMZA, Jaroslav (70%) - BOBOK, Ľudovít (30%)]

AGI006 [148147] **Metalurgické aspekty odlievania zlievarenských zliatin - 2. etapa** Výskumná správa podľa ZoD č. 50-HF05-II/ Mária Fröhlichová ... [et al.] - Košice : TU - 2006. - 88 s..

[FRÖHLICHOVÁ, Mária (10%) - LEGEMZA, Jaroslav (30%) - FINDORÁK, Róbert (30%) - BOBOK, Ľudovít (10%) - VASKOVÁ, Iveta (10%) - MALIK, Jozef (10%)]

AGI007 [148128] **Eliminácia zinku procesom chlorácie - 2. etapa** Laboratórne experimenty v statickej vrstve : Technická podpora podľa AG437060935 : Z o D č. P-102-003206-II./ Jaroslav Legemza ... [et al.] - Košice : TU - 2007. - 101 s..

[LEGEMZA, Jaroslav (40%) - FRÖHLICHOVÁ, Mária (5%) - FRÖHLICH, Ladislav (5%) - VADÁSZ, Pavol (10%) - RABATIN, Ľudovít (20%) - FINDORÁK, Róbert (15%) - DŽUPKOVÁ, Martina (2%) - DEMETER, Peter (3%)]

AGI008 [148132] **Stanovenie mechanických a fyzikálnych vlastností koksov používaných na výrobu karbidu vápnika** Záverečná správa úlohy č. P - 102 - 000207/ Jaroslav Legemza, Ľudovít Bobok - 2007. - 25 s..

[LEGEMZA, Jaroslav (70%) - BOBOK, Ľudovít (30%)]

AGI009 [148133] **Stanovenie mechanických a fyzikálnych vlastností koksov používaných na výrobu karbidu vápnika - Časť 2.** Záverečná správa úlohy č. P - 102 - 002707/ Jaroslav Legemza, Ľudovít Bobok - Košice : TU - 2007. - 28 s..

[LEGEMZA, Jaroslav (70%) - BOBOK, Ľudovít (30%)]

AGI010 [148134] **Stanovenie mechanických a fyzikálnych vlastností koksov používaných na výrobu karbidu vápnika - Časť 3.** Záverečná správa úlohy č. P. - 102 - 003307/ Jaroslav Legemza, Ľudovít Bobok, Anna Kucková - Košice : TU - 2007. - 34 s..

[LEGEMZA, Jaroslav (70%) - BOBOK, Ľudovít (20%) - KUCKOVÁ, Anna (10%)]

AGI011 [148096] **Eliminácia zinku procesom chlorácie - 3. etapa** Laboratórne experimenty v statickej vrstve : Spracovanie majoritných konvertorových jemných kalov a prachov : Technická pomoc podľa AG437070513 : Z o D č. P-102-003206-III./ Jaroslav Legemza ... [et al.] - Košice : TU - 2008. - 119 s..

[LEGEMZA, Jaroslav (47%) - FRÖHLICHOVÁ, Mária (5%) - FRÖHLICH, Ladislav (4%) - VADÁSZ, Pavol (10%) - RABATIN, Ľudovít (3%) - FINDORÁK, Róbert (10%) - DŽUPKOVÁ, Martina (3%) - DEMETER, Peter (3%) - BARICOVÁ, Dana (3%) - DEMETER, Jaroslav (3%) - BUL'KO, Branislav (3%) - JANÁK, Gabriel (3%) - VOJTKO, Marek (3%)]

AGI012 [148144] **Zniženie energetického zaťaženia a emisií CO,CO2 pri výrobe aglomerátu** Správa v rámci grantového projektu VEGA č. 1 315206/ Mária Fröhlichová ... [et al.] - Košice : TU - 2008. - 62 s..

[FRÖHLICHOVÁ, Mária (25%) - LEGEMZA, Jaroslav (25%) - BAKAJ, Filip (5%) - FINDORÁK, Róbert (25%) - DŽUPKOVÁ, Martina (10%) - ČIŽMÁROVÁ, Miroslava (10%)]

AGI013 [148149] **Stanovenie mechanických a fyzikálnych vlastností koksov používaných na výrobu karbidu vápnika - Časť 4.** Záverečná správa úlohy č. P - 102 000508/ Jaroslav Legemza, Ľudovít Bobok - Košice : TU - 2008. - 22 s..

[LEGEMZA, Jaroslav (70%) - BOBOK, Ľudovít (30%)]

AGI014 [148135] **Stanovenie chemických, fyzikálnych a mechanických vlastností elektródových hmôt EH-1 a EH-3** Záverečná správa úlohy č. P-102-002709/ Jaroslav Legemza - Košice : TU - 2009. - 36 s..

[LEGEMZA, Jaroslav (100%)]

AGI015 [148150] **Stanovenie chemických, fyzikálnych a mechanických vlastností elektródových hmôt EH-1, EH-3 a EH-PL** Záverečná správa úlohy č. P-102-003409/ Jaroslav Legemza - Košice : TU - 2009. - 43 s..

[LEGEMZA, Jaroslav (100%)]

AGI016 [148136] **Stanovenie chemických, fyzikálnych a mechanických vlastností elektródovej hmoty EH-1-8** Porovnanie s EH-1, EH-3 a EH-PL : Záverečná správa úlohy č. P-102-003310/ Jaroslav Legemza - Košice : TU - 2010. - 46 s..

[LEGEMZA, Jaroslav (100%)]

AGI017 [148137] **Stanovenie chemických, fyzikálnych a mechanických vlastností elektródových hmôt EH-1-8 (1) a EH-1-8 (2)** Porovanie s EH-1-8 (apríl 2010) : Záverečná správa úlohy č. P-102-008010/ Jaroslav Legemza - Košice : TU - 2010. - 47 s..

[LEGEMZA, Jaroslav (100%)]

AGI018 [148138] **Stanovenie mechanických a fyzikálnych vlastností koksov používaných na výrobu karbidu vápnika - Časť 5.** Záverečná správa úlohy č. P-102-001311/ Jaroslav Legemza - Košice : TU - 2011. - 33 s..

[LEGEMZA, Jaroslav (100%)]

AGI019 [148141] **Optimalizácia druhov redukčných činidiel (koksu a uhlia) pre výrobu ferozliatin v OFZ, a.s. Istebné** Záverečná správa úlohy č. 102-005011/ Jaroslav Legemza ... [et al.] - Košice : TU - 2011. - 72 s..

[LEGEMZA, Jaroslav (70%) - KUCKOVÁ, Anna (10%) - DŽUPKOVÁ, Martina (10%) - FRÖHLICHOVÁ, Mária (10%)]

AGI020 [148126] **Research of SICON Shredder Sand material** Final report from project No.

P-102-004412/ Štefan Eperješi ... [et al.] - Košice : TU - 2012. - 31 s..

[EPERJEŠI, Štefan (20%) - FRÖHLICHOVÁ, Mária (10%) - LEGEMZA, Jaroslav (50%) - FINDORÁK, Róbert (20%)]

AGI021 [148129] **Overenie možnosti použitia titánonusného materiálu HDX** Výskumná správa

P-102-002212/ Róbert Findorák ... [et al.] - Košice : TU - 2012. - 38 s..

[FINDORÁK, Róbert (40%) - FRÖHLICHOVÁ, Mária (10%) - LEGEMZA, Jaroslav (40%) - BAKAJ, Filip (10%)]

AGI022 [148140] **Možnosti využitia vápenatej suspenzie (materiálu na báze Ca(OH)2) pri karbotermickej výrobe karbidu vápnika v EOP** Záverečná správa úlohy č. P- 102 - 000812/ Jaroslav Legemza, Róbert Findorák, Filip Bakaj - Košice : TU - 2012. - 45 s..

[LEGEMZA, Jaroslav (50%) - FINDORÁK, Róbert (40%) - BAKAJ, Filip (10%)]

AGI023 [148143] **Optimalizácia druhov mangánových rúd pre výrobu mangánových ferozliatin v OFZ, a. s., bez použitia aglomerátu** Záverečná správa úlohy č. P - 102 - 0031 12/ Jaroslav Legemza ... [et al.] - Košice : TU - 2012. - 81 s..

[LEGEMZA, Jaroslav (50%) - FINDORÁK, Róbert (30%) - BARICOVÁ, Dana (10%) - BAKAJ, Filip (10%)]

AGI024 [156469] **Materiálov - tepelná bilancia procesu dehydratácie materiálu na báze Mg(OH)2**

Záverečná správa úlohy č. Z-12-1010001-08/ Jaroslav Legemza - Košice : TU - 2012. - 16 s..

[LEGEMZA, Jaroslav (100%)]

AGI025 [148139] **Stanovenie fyzikálnych vlastností koksov** Záverečná správa č. P-102-003213/  
Jaroslav Legemza - Košice : TU - 2013. - 22 s..  
[LEGEMZA, Jaroslav (100%)]

AGI026 [148142] **Laboratórne overenie výroby Mn aglomerátu – ako vsádzky pre výrobu FeSiMn v OFZ, a.s.** Záverečná správa výskumnej úlohy č. P-102-001914/ Jaroslav Legemza ... [et al.] - Košice : TU - 2014. - 70 s..  
[LEGEMZA, Jaroslav (40%) - FRÖHLICHOVÁ, Mária (10%) - FINDORÁK, Róbert (30%) - BAKAJ, Filip (20%)]

AGI027 [156471] **Stanovenie fyzikálno – chemických vlastností vzoriek na báze antracitu** Záverečná správa úlohy č. Z-12-101001-08/ Jaroslav Legemza, Róbert Findorák - Košice : TU - 2014. - 16 s..  
[LEGEMZA, Jaroslav (50%) - FINDORÁK, Róbert (50%)]

AGI028 [160312] **Termodynamická analýza splyňovania uhlia** Project COGAR RFCR-CT-2013-00002/ Jaroslav Legemza, Juraj Branislav Ďurove, Róbert Findorák - Košice : TU - 2014. - 83 s..  
[LEGEMZA, Jaroslav (60%) - ĎUROVE, Juraj Branislav (20%) - FINDORÁK, Róbert (20%)]

AGI029 [160313] **Materiálový výskum antracitov** Zistenie príčin rozdielov v kvalite a vlastnostiach vzoriek antracitov : Záverečná správa výskumnej úlohy č. P-102-003615/ Jaroslav Legemza ... [et al.] - Košice : TU - 2015. - 97 s..  
[LEGEMZA, Jaroslav (40%) - FINDORÁK, Róbert (20%) - FRÖHLICHOVÁ, Mária (10%) - ČIŽMÁROVÁ, Miroslava (20%) - SEMANOVÁ, Zuzana (10%)]

AGI030 [160314] **Study of physico - chemical properties of quartz (Stepanci - Macedonia)** The first analysis stage No.: P-102-003715/ Jaroslav Legemza ... [et al.] - Košice : TU - 2015. - 24 s..  
[LEGEMZA, Jaroslav (50%) - FINDORÁK, Róbert (20%) - FRÖHLICHOVÁ, Mária (10%) - SEMANOVÁ, Zuzana (20%)]

AGI031 [160315] **Study of physico - chemical properties of quartzes (Švedlár - Slovakia) and comparison of quartzes** The second analysis stage No.: P-102-003715-2./ Jaroslav Legemza ... [et al.] - Košice : TU - 2015. - 31 s..  
[LEGEMZA, Jaroslav (50%) - FINDORÁK, Róbert (20%) - FRÖHLICHOVÁ, Mária (10%) - SEMANOVÁ, Zuzana (20%)]

AGI032 [160316] **Melting of ScanArc slag containing Cu** Final Report No.: P-102-004015/ Jaroslav Legemza ... [et al.] - Košice : TU - 2015. - 24 s..  
[LEGEMZA, Jaroslav (40%) - FRÖHLICHOVÁ, Mária (10%) - BUĽKO, Branislav (30%) - FINDORÁK, Róbert (20%)]

AGI033 [168164] **Melting of ScanArc slag containing Cu** Final Report No.: P-102-004015-2 : 2nd stage/ Jaroslav Legemza ... [et al.] - Košice : TU - 2015. - 22 s..  
[LEGEMZA, Jaroslav (25%) - FRÖHLICHOVÁ, Mária (25%) - BUĽKO, Branislav (25%) - FINDORÁK, Róbert (25%)]

AGI034 [173168] **Laboratórne skúšky na LSP pre potreby Třineckých Železiarní** Záverečná správa výskumnej úlohy č. P-102-003116/ Róbert Findorák ... [et al.] - Košice : TU - 2016. - 21 s..  
[FINDORÁK, Róbert (40%) - FRÖHLICHOVÁ, Mária (20%) - LEGEMZA, Jaroslav (20%) - LEŠKO, Jaroslav (10%) - HUDÁK, Jozef (10%)]

AGI035 [173169] **Stanovenie fyzikálno – chemických a metalurgických vlastností mangánových rúd** Záverečná správa výskumnej úlohy č. P-102-002216/ Jaroslav Legemza, Zuzana Semanová - Košice : TU - 2016. - 59 s..  
[LEGEMZA, Jaroslav (60%) - SEMANOVÁ, Zuzana (40%)]

AGI036 [173170] **Research of material based on PetritT** Final report No.: P-102-003816, P-102-004016/  
Jaroslav Legemza ... [et al.] - Košice : TU - 2016. - 57 s..  
[LEGEMZA, Jaroslav (50%) - FINDORÁK, Róbert (20%) - ČIŽMÁROVÁ, Miroslava (20%) - SEMANOVÁ,  
Zuzana (10%)]

AGI037 [179463] **Research of material based on PetritT- optimization (2nd stage)** Final report No.:  
P-102-005616, P-102-005716/ Jaroslav Legemza ... [et al.] - Košice : TU - 2017. - 66 s..  
[LEGEMZA, Jaroslav (40%) - FINDORÁK, Róbert (20%) - ČIŽMÁROVÁ, Miroslava (20%) - SEMANOVÁ,  
Zuzana (20%)]

AGI038 [188158] **Research of material based on PetritT. The sinterings for semi – pilot verification of  
the technology (3rd stage)** Final report No.: P-102-002917/ Jaroslav Legemza ... [et al.] - Košice : TU -  
2017. - 70 s..  
[LEGEMZA, Jaroslav (35%) - FINDORÁK, Róbert (15%) - ČIŽMÁROVÁ, Miroslava (15%) - SEMANOVÁ,  
Zuzana (15%) - DŽUPKOVÁ, Martina (10%) - LEŠKO, Jaroslav (10%)]

AGI039 [199027] **Research of Mn ore Romania based Mn agglomerate in laboratory conditions** Final  
report No.: 0941022012017/ Jaroslav Legemza ... [et al.] - 1. vyd. - Košice : Technická univerzita v  
Košiciach - 2018. - 68 s. [print].  
[LEGEMZA, Jaroslav (40%) - SEMANOVÁ, Zuzana (20%) - FINDORÁK, Róbert (20%) - ČIŽMÁROVÁ,  
Miroslava (20%)]

AGI040 [199028] **Výskum vysokoteplotnej stability a redukovateľnosti kremencov (resp. kremeňov)**  
Záverečná správa výskumnej úlohy č. P-102-004618/ Jaroslav Legemza ... [et al.] - 1. vyd. - Košice :  
Technická univerzita v Košiciach - 2018. - 75 s. [print].  
[LEGEMZA, Jaroslav (40%) - FINDORÁK, Róbert (20%) - BUL'KO, Branislav (20%) - SEMANOVÁ, Zuzana  
(10%) - ČIŽMÁROVÁ, Miroslava (10%)]

AGI041 [199030] **Výskum a analýza faktorov ovplyvňujúcich rozpadávanie ferosilícia (FeSi)**  
Záverečná správa výskumnej úlohy č. P-102005418/ Jaroslav Legemza ... [et al.] - 1. vyd. - Košice :  
Technická univerzita v Košiciach - 2018. - 39 s. [print].  
[LEGEMZA, Jaroslav (40%) - SEMANOVÁ, Zuzana (20%) - FINDORÁK, Róbert (20%) - ČIŽMÁROVÁ,  
Miroslava (20%)]

AGI042 [206469] **Výskum vysokoteplotnej stability a redukovateľnosti kremencov (resp. kremeňov)  
– 2. etapa** záverečná správa výskumnej úlohy č. P-102-005518/ Jaroslav Legemza, Róbert Findorák,  
Branislav Buľko - 1. vyd. - Košice : Technická univerzita v Košiciach - 2019. - 39 s. [print].  
[LEGEMZA, Jaroslav (40%) - FINDORÁK, Róbert (30%) - BUL'KO, Branislav (30%)]

AGI043 [206470] **Výskum vysokoteplotnej stability a redukovateľnosti kremenca Pliešovce (SR) – 3.  
etapa** záverečná správa výskumnej úlohy č. P-102-005518-II/ Jaroslav Legemza, Róbert Findorák,  
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- 1. vyd. - Košice : Technická univerzita v Košiciach - 2019. - 20 s. [print].  
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[FRÖHLICOVÁ, Mária (26%) - LEGEMZA, Jaroslav (24%) - KUCKOVÁ, Anna (1%) - MAJERČÁK, Štefan (1%) - FINDORÁK, Róbert (24%) - BUL'KO, Branislav (24%)]

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Export Date: 01 Oct 2019

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[Close](#)[Print](#)**Record 1 of 28****By:** Mezibricky, R (Mezibricky, R.); Frohlichova, M (Frohlichova, M.); Legemza, J (Legemza, J.)**Title:** HIGH-SiO<sub>2</sub> IRON ORE SINTERING: CENTRAL & EASTERN EUROPE SCENARIO**Source:** METALURGIJA**Volume:** 58**Issue:** 1-2**Pages:** 161-164**Published:** JAN 2019

Times Cited in Chinese Science Citation Database: 0

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**Total Times Cited:** 1**ISSN:** 0543-5846**eISSN:** 1334-2576**Accession Number:** WOS:000446674900042**Record 2 of 28****By:** Frohlichova, M (Frohlichova, Maria); Ivanisin, D (Ivanisin, Dusan); Findorak, R (Findorak, Robert); Dzupkova, M (Dzupkova, Martina); Legemza, J (Legemza, Jaroslav)**Title:** The Effect of Concentrate/Iron Ore Ratio Change on Agglomerate Phase Composition**Source:** METALS**Volume:** 8**Issue:** 11**Article Number:** 973**DOI:** 10.3390/met8110973**Published:** NOV 2018

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**Total Times Cited:** 1**ISSN:** 2075-4701**Accession Number:** WOS:000451735100112**Record 3 of 28****By:** Frohlichova, M (Frohlichova, M.); Findorak, R (Findorak, R.); Legemza, J (Legemza, J.); Dzupkova, M (Dzupkova, M.)**Title:** THE FUSION CHARACTERISTICS OF ASHES FROM LIGNIN AND THE COKE BREEZE**Source:** ARCHIVES OF METALLURGY AND MATERIALS**Volume:** 63**Issue:** 3**Pages:** 1523-1530**DOI:** 10.24425/123843**Published:** 2018

Times Cited in Chinese Science Citation Database: 0

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**Total Times Cited:** 0**ISSN:** 1733-3490**eISSN:** 2300-1909**Accession Number:** WOS:000453253300065**Record 4 of 28****By:** Semanova, Z (Semanova, Z.); Legemza, J (Legemza, J.); Hrubovcakova, M (Hrubovcakova, M.); Findorak, R (Findorak, R.); Frohlichova, M (Frohlichova, M.)**Title:** INFLUENCE OF INTENSIFICATION FACTORS ON QUALITY OF Fe AGGLOMERATES MADE WITH ALTERNATIVE FUEL**Source:** ARCHIVES OF METALLURGY AND MATERIALS**Volume:** 63**Issue:** 4**Pages:** 1853-1857**DOI:** 10.24425/amm.2018.125115**Published:** 2018

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**Times Cited in Russian Science Citation Index:** 0**Times Cited in Web of Science Core Collection:** 0**Total Times Cited:** 0**ISSN:** 1733-3490**eISSN:** 2300-1909**Accession Number:** WOS:000453260800037**Record 5 of 28****By:** Jozef, H (Jozef, Hudak); Jaroslav, L (Jaroslav, Leko); Zuzana, S (Zuzana, Semanova); Maria, F (Maria, Frohlichova); Robert, F (Robert, Findorak); Jaroslav, L (Jaroslav, Legemza)**Title:** Evaluation of granulability and absorbtivity of biomass in agglomeration mixture**Source:** JOURNAL OF CENTRAL SOUTH UNIVERSITY**Volume:** 24**Issue:** 10**Pages:** 2260-2265**DOI:** 10.1007/s11771-017-3636-0**Published:** OCT 2017**Times Cited in Chinese Science Citation Database:** 0**Times Cited in BIOSIS Citation Index:** 0**Times Cited in SciELO Citation Index:** 0**Times Cited in Russian Science Citation Index:** 0**Times Cited in Web of Science Core Collection:** 0**Total Times Cited:** 0**ISSN:** 2095-2899**eISSN:** 1993-0666**Accession Number:** WOS:000415196800008**Record 6 of 28****By:** Findorak, R (Findorak, Robert); Frohlichova, M (Frohlichova, Maria); Legemza, J (Legemza, Jaroslav); Findorakova, L (Findorakova, Lenka)**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
Findorak, Robert	D-8842-2015	

**Title:** Thermal degradation and kinetic study of sawdusts and walnut shells via thermal analysis**Source:** JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY**Volume:** 125**Issue:** 2**Pages:** 689-694**DOI:** 10.1007/s10973-016-5264-6**Published:** AUG 2016**Conference Title:** MEDICTA Conference**Conference Date:** 2015**Conference Location:** Univ Girona, Girona, SPAIN**Sponsor(s):** Spanish Grupo Especializado Calorimetria & Analisis Termico; Assoc Italiana Calorimetria & Analisi Termica; Soc Chimica Italiana, Grupo Interdivisionale Calorimetria & Analisi Termica; Assoc Francaise Calorimetrie & Amalyse Thermique; Hellen Soc Thermal Anal; Grupo Calorimetria & Termoquimica Porto; Mettler Toledo; Netzsch; Perkin Elmer; Real Soc Espanola Quimica; Fundacio Univ Girona**Conference Host:** Univ Girona**Times Cited in BIOSIS Citation Index:** 1**Times Cited in Web of Science Core Collection:** 11**Times Cited in Russian Science Citation Index:** 0**Times Cited in Chinese Science Citation Database:** 0**Times Cited in SciELO Citation Index:** 0**Total Times Cited:** 11**ISSN:** 1388-6150**eISSN:** 1588-2926**Accession Number:** WOS:000379491400016**Record 7 of 28****By:** Molnar, M (Molnar, Marek); Trefa, G (Trefa, Gabriel); Hertneky, S (Hertneky, Slavomir); Behan, B (Behan, Benjamin); Steranka, E (Steranka, Erik); Rega, V (Rega, Vladimir); Jusko, M (Jusko, Martin); Legemza, J (Legemza, Jaroslav); Bul'ko, B (Bul'ko, Branislav); Demeter, P (Demeter, Peter)**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
Bulko, Branislav	E-7403-2015	0000-0002-3507-8954
Demeter, Peter	Y-2338-2019	
Demeter, Peter		0000-0003-4387-7892

**Title:** INFLUENCE OF CHEMICAL REHEATING AT RH DEGASSER ON CLEANLINESS OF IF STEEL GRADES**Source:** ACTA METALLURGICA SLOVACA**Volume:** 22**Issue:** 2**Pages:** 95-101

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Author	Web of Science ResearcherID	ORCID Number
Findorak, Robert	D-8842-2015	

**Title:** INFLUENCE OF BIOMASS ON THE STRUCTURE OF IRON ORE SINTER**Source:** SCIENCE AND TECHNOLOGIES IN GEOLOGY, EXPLORATION AND MINING, SGEM 2015, VOL I**Book Series Title:** International Multidisciplinary Scientific GeoConference-SGEM**Pages:** 615-620**Published:** 2015**Conference Title:** 15th International Multidisciplinary Scientific Geoconference (SGEM)**Conference Date:** JUN 18-24, 2015**Conference Location:** Albena, BULGARIA**Sponsor(s):** Bulgarian Acad Sci; Acad Sci Czech Repub; Latvian Acad Sci; Polish Acad Sci; Russian Acad Sci; Serbian Acad Sci & Arts; Slovak Acad Sci; Natl Acad Sci Ukraine; Inst Water Problem & Hydropower NAS KR; Natl Acad Sci Armenia; Sci Council Japan; World Acad Sci; European Acad Sci Arts & Letters; Acad Sci Moldova; Montenegrin Acad Sci & Arts; Croatian Acad Sci & Arts; Georgian Natl Acad Sci; Acad Fine Arts & Design Bratislava; Turkish Acad Sci; Bulgarian Ind Assoc; Bulgarian Minist Environ & Water**Times Cited in BIOSIS Citation Index:** 0**Times Cited in Russian Science Citation Index:** 0**Times Cited in SciELO Citation Index:** 0**Times Cited in Web of Science Core Collection:** 1**Times Cited in Chinese Science Citation Database:** 0**Total Times Cited:** 1**ISSN:** 1314-2704**ISBN:** 978-619-7105-31-5**Accession Number:** WOS:000371662300078**Record 9 of 28****By:** Lesko, J (Lesko, Jaroslav); Legemza, J (Legemza, Jaroslav); Hudak, J (Hudak, Jozef); Frohlichova, M (Frohlichova, Maria); Findorak, R (Findorak, Robert)**Book Group Author(s):** SGEM**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
Findorak, Robert	D-8842-2015	

**Title:** INFLUENCE OF PINE AND OAK WOOD SAWDUST ADDITION IN THE PRODUCTION OF IRON ORE SINTER ON THE ENVIRONMENT**Source:** SCIENCE AND TECHNOLOGIES IN GEOLOGY, EXPLORATION AND MINING, SGEM 2015, VOL I**Book Series Title:** International Multidisciplinary Scientific GeoConference-SGEM**Pages:** 629-636**Published:** 2015**Conference Title:** 15th International Multidisciplinary Scientific Geoconference (SGEM)**Conference Date:** JUN 18-24, 2015**Conference Location:** Albena, BULGARIA**Sponsor(s):** Bulgarian Acad Sci; Acad Sci Czech Repub; Latvian Acad Sci; Polish Acad Sci; Russian Acad Sci; Serbian Acad Sci & Arts; Slovak Acad Sci; Natl Acad Sci Ukraine; Inst Water Problem & Hydropower NAS KR; Natl Acad Sci Armenia; Sci Council Japan; World Acad Sci; European Acad Sci Arts & Letters; Acad Sci Moldova; Montenegrin Acad Sci & Arts; Croatian Acad Sci & Arts; Georgian Natl Acad Sci; Acad Fine Arts & Design Bratislava; Turkish Acad Sci; Bulgarian Ind Assoc; Bulgarian Minist Environ & Water**Times Cited in Russian Science Citation Index:** 0**Times Cited in Chinese Science Citation Database:** 0**Times Cited in SciELO Citation Index:** 0**Times Cited in BIOSIS Citation Index:** 0**Times Cited in Web of Science Core Collection:** 0**Total Times Cited:** 0**ISSN:** 1314-2704**ISBN:** 978-619-7105-31-5**Accession Number:** WOS:000371662300080**Record 10 of 28**

**By:** Hudak, J (Hudak, Jozef); Frohlicova, M (Frohlicova, Maria); Legemza, J (Legemza, Jaroslav); Findorak, R (Findorak, Robert); Lesko, J (Lesko, Jaroslav)

**Book Group Author(s):** SGEM

**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
Findorak, Robert	D-8842-2015	

**Title:** QUALITY AND TECHNOLOGICAL PARAMETERS OF AGGLOMERATES WITH OAK AND PINE SAWDUST AS A REPLACEMENT FUEL

**Source:** SCIENCE AND TECHNOLOGIES IN GEOLOGY, EXPLORATION AND MINING, SGEM 2015, VOL I

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**Record 11 of 28**

**By:** Frohlichova, M (Frohlichova, M.); Ivanisin, D (Ivanisin, D.); Maslejova, A (Maslejova, A.); Findorak, R (Findorak, R.); Legemza, J (Legemza, J.)

**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
Findorak, Robert	D-8842-2015	

**Title:** IRON-ORE SINTERING PROCESS OPTIMIZATION

**Source:** ARCHIVES OF METALLURGY AND MATERIALS

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**Record 12 of 28**

**By:** Semanova, Z (Semanova, Zuzana); Legemza, J (Legemza, Jaroslav)

**Title:** STUDY OF PROPERTIES OF Mn ORE FINES AND POSSIBILITIES THEIR UTILIZATION IN THE PRODUCTION OF FeSiMn

**Source:** ACTA METALLURGICA SLOVACA

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**Record 13 of 28**

**By:** Frohlichova, M (Froehlichova, M.); Legemza, J (Legemza, J.); Findorak, R (Findorak, R.); Maslejova, A (Maslejova, A.)

**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
Findorak, Robert	D-8842-2015	

**Title:** BIOMASS AS A SOURCE OF ENERGY IN IRON ORE AGGLOMERATE PRODUCTION PROCESS

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**Record 14 of 28**

**By:** Semanova, Z (Semanova, Zuzana); Legemza, J (Legemza, Jaroslav)

**Title:** ANALYSIS AND USE OF Mn ORE FINES

**Source:** ACTA METALLURGICA SLOVACA

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**Record 15 of 28**

**By:** Findorak, R (Findorak, Robert); Frohlichova, M (Froehlichova, Maria); Legemza, J (Legemza, Jaroslav)

**Book Group Author(s):** SGEM

**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
Findorak, Robert	D-8842-2015	

**Title:** THE EFFECT OF SAW-DUST ADDITION FROM PINE AND OAK WOOD ON IRON-ORE SINTERING PERFORMANCE

**Source:** GEOCONFERENCE ON SCIENCE AND TECHNOLOGIES IN GEOLOGY, EXPLORATION AND MINING, SGEM 2014, VOL III

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**Sponsor(s):** Bulgarian Acad Sci; Acad Sci Czech Repub; Latvian Acad Sci; Polish Acad Sci; Russian Acad Sci; Serbian Acad Sci & Arts; Slovak Acad Sci; Natl Acad Sci Ukraine; Inst Water Problem & Hydropower NAS KR; Natl Acad Sci Armenia; Sci Council Japan; World Acad Sci; European Acad Sci Arts & Letters; Acad Sci Moldova; Montenegrin Acad Sci & Arts; Croatian Acad Sci & Arts; Georgian Natl Acad Sci; Acad Fine Arts & Design Bratislava; Turkish Acad Sci; Bulgarian Ind Assoc; Bulgarian Minist Environ & Water

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**Record 16 of 28**

**By:** Frohlichova, M (Frohlichova, Maria); Legemza, J (Legemza, Jaroslav); Findorak, R (Findorak, Robert)

**Book Group Author(s):** SGEM

**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
Findorak, Robert	D-8842-2015	

**Title:** THE POSSIBILITY OF USING OF BIOMASS IN THE AGGLOMERATION PROCESS

**Source:** GEOCONFERENCE ON SCIENCE AND TECHNOLOGIES IN GEOLOGY, EXPLORATION AND MINING, SGEM 2014, VOL III

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**Record 17 of 28**

**By:** Legemza, J (Legemza, Jaroslav); Frohlichova, M (Frohlichova, Maria); Findorak, R (Findorak, Robert)

**Book Group Author(s):** SGEM

**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
Findorak, Robert	D-8842-2015	

**Title:** THERMODYNAMIC STUDY OF UTILIZATION OF SAWDUST FROM OAK-WOOD IN THE IRON-ORE SINTERING PROCESS

**Source:** GEOCONFERENCE ON SCIENCE AND TECHNOLOGIES IN GEOLOGY, EXPLORATION AND MINING, SGEM 2014, VOL III

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**Record 18 of 28**

**By:** Findorak, R (Findorak, R.); Frohlichova, M (Frohlichova, M.); Legemza, J (Legemza, J.)

**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
Findorak, Robert	D-8842-2015	

**Title:** POTENTIAL OF ILMENITE SAND APPLICATION IN THE IRON ORE MATERIALS AGGLOMERATION

**Source:** METALURGIJA

**Volume:** 53

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Record 19 of 28

By: Frohlichova, M (Frohlichova, M.); Findorak, R (Findorak, R.); Legemza, J (Legemza, J.)

Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
Findorak, Robert	D-8842-2015	

Title: STRUCTURAL ANALYSIS OF SINTER WITH TITANIUM ADDITION

Source: ARCHIVES OF METALLURGY AND MATERIALS

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Record 20 of 28

By: Frohlichova, M (Frohlichova, Maria); Legemza, J (Legemza, Jaroslav); Findorak, R (Findorak, Robert)

Book Group Author(s): SGEM

Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
Findorak, Robert	D-8842-2015	

Title: POSSIBILITIES OF IMPROVING COKE STRENGTH UNDER HOT CONDITIONS (CSR) AND COKE REACTIVITY (CRI) BY INCREASING CHARGE COALIFICATION

Source: GEOCONFERENCE ON SCIENCE AND TECHNOLOGIES IN GEOLOGY, EXPLORATION AND MINING, SGEM 2013, VOL II

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Record 21 of 28

By: Findorak, R (Findorak, Robert); Frohlichova, M (Frohlichova, Maria); Legemza, J (Legemza, Jaroslav)

Book Group Author(s): SGEM

Author Identifiers:

Author	Web of Science ResearcherID	ORCID Number
Findorak, Robert	D-8842-2015	

Title: THE EFFECT OF CHARCOAL ADDITION ON IRON-ORE SINTERING EMISSION

Source: GEOCONFERENCE ON SCIENCE AND TECHNOLOGIES IN GEOLOGY, EXPLORATION AND MINING, SGEM 2013, VOL II

Book Series Title: International Multidisciplinary Scientific GeoConference-SGEM

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**Record 22 of 28**

**By:** Findorak, R (Findorak, Robert); Frohlichova, M (Frohlichova, Maria); Legemza, J (Legemza, Jaroslav)

**Book Group Author(s):** SGEM

**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
Findorak, Robert	D-8842-2015	

**Title:** THE EFFECT OF CHARCOAL ADDITION ON IRON-ORE SINTERING PERFORMANCE

**Source:** GEOCONFERENCE ON SCIENCE AND TECHNOLOGIES IN GEOLOGY, EXPLORATION AND MINING, SGEM 2013, VOL II

**Book Series Title:** International Multidisciplinary Scientific GeoConference-SGEM

**Pages:** 637-642

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**Conference Date:** JUN 16-22, 2013

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**Record 23 of 28**

**By:** Legemza, J (Legemza, Jaroslav); Frohlichova, M (Frohlichova, Maria); Findorak, R (Findorak, Robert)

**Book Group Author(s):** SGEM

**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
Findorak, Robert	D-8842-2015	

**Title:** THERMODYNAMIC STUDY OF UTILIZATION OF CHARCOAL IN THE IRON-ORE SINTERING PROCESS

**Source:** GEOCONFERENCE ON SCIENCE AND TECHNOLOGIES IN GEOLOGY, EXPLORATION AND MINING, SGEM 2013, VOL II

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**Record 24 of 28**

**By:** Legemza, J (Legemza, Jaroslav); Frohlichova, M (Frohlichova, Maria); Findorak, R (Findorak, Robert)

**Book Group Author(s):** SGEM

**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
Findorak, Robert	D-8842-2015	

**Title:** THERMODYNAMIC STUDY OF UTILIZATION OF SAWDUST FROM PINE-WOOD IN THE IRON-ORE SINTERING PROCESS

**Source:** GEOCONFERENCE ON SCIENCE AND TECHNOLOGIES IN GEOLOGY, EXPLORATION AND MINING, SGEM 2013, VOL II  
**Book Series Title:** International Multidisciplinary Scientific GeoConference-SGEM  
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**Record 25 of 28**

By: Solc, M (Solc, Marek); Legemza, J (Legemza, Jaroslav); Sutoova, A (Sutoova, Andrea); Girmanova, L (Girmanova, Lenka)

**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
Sutoova, Andrea		0000-0002-6689-046X

**Edited by:** Baskan, GA (Baskan, GA); Ozdamli, F (Ozdamli, F); Kanbul, S (Kanbul, S); Ozcan, D (Ozcan, D)

**Title:** Experiences with utilizing e-learning in education process in university environment

**Source:** 4TH WORLD CONFERENCE ON EDUCATIONAL SCIENCES (WCES-2012)

**Book Series Title:** Procedia Social and Behavioral Sciences

**Volume:** 46

**Pages:** 5201-5205

**DOI:** 10.1016/j.sbspro.2012.06.409

**Published:** 2012

**Conference Title:** 4th World Conference on Educational Sciences (WCES)

**Conference Date:** FEB 02-05, 2012

**Conference Location:** Univ Barcelona, Barcelona, SPAIN

**Sponsor(s):** Acad World Educ & Res Ctr; Near E Univ; Bahcesehir Univ; Ankara Univ; Hacettepe Univ; Cyprus Educ Sci Assoc

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**Record 26 of 28**

By: Frohlichova, M (Frohlichova, Maria); Legemza, J (Legemza, Jaroslav); Findorak, R (Findorak, Robert); Bakaj, F (Bakaj, Filip)

**Book Group Author(s):** SGEM

**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
Findorak, Robert	D-8842-2015	

**Title:** EFFECT OF THE SUCKING AIR UNDERPRESSURE ON THE PRODUCTION PARAMETERS OF THE SINTERING PROCESS

**Source:** 10TH INTERNATIONAL MULTIDISCIPLINARY SCIENTIFIC GEOCONFERENCE: SGEM 2010, VOL II

**Book Series Title:** International Multidisciplinary Scientific GeoConference-SGEM

**Pages:** 553-557

**Published:** 2010

**Conference Title:** 10th International Multidisciplinary Scientific GeoConference SGEM 2010

**Conference Date:** JUN 20-26, 2010

**Conference Location:** Albena, BULGARIA

**Sponsor(s):** Minist Environm & Water Bulgaria; Bulgarian Acad Sci; Acad Sci Czech Republ; Acad Sci IR Iran; Latvian Acad Sci; Polish Acad Sci; Russian Acad Sci; Serbian Acad Sci & Arts; Slovak Acad Sci; Natl Acad Sci Ukraine; Bulgarian Ind Assoc

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**ISSN:** 1314-2704

**Accession Number:** WOS:000288622300075**Record 27 of 28****By:** Legemza, J (Legemza, Jaroslav); Frohlichova, M (Froehlichova, Maria); Findorak, R (Findorak, Robert); Bakaj, F (Bakaj, Filip)**Book Group Author(s):** SGEM**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
Findorak, Robert	D-8842-2015	

**Title:** EMISSIONS CO AND CO2 IN THE SINTERING PROCESS.**Source:** 10TH INTERNATIONAL MULTIDISCIPLINARY SCIENTIFIC GEOCONFERENCE: SGEM 2010, VOL II**Book Series Title:** International Multidisciplinary Scientific GeoConference-SGEM**Pages:** 567-572**Published:** 2010**Conference Title:** 10th International Multidisciplinary Scientific GeoConference SGEM 2010**Conference Date:** JUN 20-26, 2010**Conference Location:** Albena, BULGARIA**Sponsor(s):** Minist Environm & Water Bulgaria; Bulgarian Acad Sci; Acad Sci Czech Republ; Acad Sci IR Iran; Latvian Acad Sci; Polish Acad Sci; Russian Acad Sci; Serbian Acad Sci & Arts; Slovak Acad Sci; Natl Acad Sci Ukraine; Bulgarian Ind Assoc**Times Cited in Chinese Science Citation Database:** 0**Times Cited in Web of Science Core Collection:** 5**Times Cited in BIOSIS Citation Index:** 0**Times Cited in SciELO Citation Index:** 0**Times Cited in Russian Science Citation Index:** 0**Total Times Cited:** 5**ISSN:** 1314-2704**Accession Number:** WOS:000288622300077**Record 28 of 28****By:** Findorak, R (Findorak, Robert); Frohlichova, M (Froehlichova, Maria); Legemza, J (Legemza, Jaroslav); Bakaj, F (Bakaj, Filip)**Book Group Author(s):** SGEM**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
Findorak, Robert	D-8842-2015	

**Title:** INCREASE OF IRON CONTENT IN CURRENT SINTER**Source:** 10TH INTERNATIONAL MULTIDISCIPLINARY SCIENTIFIC GEOCONFERENCE: SGEM 2010, VOL II**Book Series Title:** International Multidisciplinary Scientific GeoConference-SGEM**Pages:** 625-628**Published:** 2010**Conference Title:** 10th International Multidisciplinary Scientific GeoConference SGEM 2010**Conference Date:** JUN 20-26, 2010**Conference Location:** Albena, BULGARIA**Sponsor(s):** Minist Environm & Water Bulgaria; Bulgarian Acad Sci; Acad Sci Czech Republ; Acad Sci IR Iran; Latvian Acad Sci; Polish Acad Sci; Russian Acad Sci; Serbian Acad Sci & Arts; Slovak Acad Sci; Natl Acad Sci Ukraine; Bulgarian Ind Assoc**Times Cited in BIOSIS Citation Index:** 0**Times Cited in SciELO Citation Index:** 0**Times Cited in Web of Science Core Collection:** 0**Times Cited in Chinese Science Citation Database:** 0**Times Cited in Russian Science Citation Index:** 0**Total Times Cited:** 0**ISSN:** 1314-2704**Accession Number:** WOS:000288622300086[Close](#)

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Page 1 (Records 1 -- 8)

&lt; [ 1 ] &gt;

[Print](#)**Record 1 of 8****Author(s):** Legemza, J (Legemza, Jaroslav); Frohlichova, M (Frohlichova, Maria); Findorak, R (Findorak, Robert); Dzupkova, M (Dzupkova, Martina)**Title:** Modelling of Mass and Thermal Balance and Simulation of Iron Sintering Process with Biomass**Source:** METALS**Volume:** 9**Issue:** 9**Pages:** 1010-1010**Published:** SEP 2019

**Abstract:** This paper specifies the mathematical and physical modelling of the iron sintering process in laboratory conditions. The aim is to get the simplest approach (using thermodynamic software "HSC Chemistry", version 9, Outokumpu Research Oy, Pori, Finland) that allows one to predict the output parameters based on the initial composition analysis. As a part of the application of mathematical modelling, a mass and thermal balance of combustion of carbonaceous fuels (including biomass) and a mass and thermal balance of high-temperature sintering of an agglomeration charge were determined. The objective of the paper was to point out the advantages of modelling using thermodynamic software and apply the results into a simulation of the sintering process. The outcome of mathematical modelling correlates to the outcome of physical modelling for fuel combustion and the agglomerate production in a laboratory sintering pan. The energy required to reach the desired sintering temperatures and acquire the standard quality of agglomerate was calculated using 4.97% of coke breeze. In a real experiment with the laboratory sintering pan, 4.35% of coke was used. When a biomass fuel with a lower calorific value (lignin) is used in the agglomeration charge, the amount of fuel has to be increased to 5.52% (with 20% substitution of coke). This paper also aimed at predicting methodological tools and defining thermodynamic conditions for creating an interactive simulation. In addition, kinetics should be considered to improve the predicting capabilities of the current model and therefore in further research it will be required to optimise the computational program pursuant to the results of the kinetics experiments.

**Accession Number:** CCC:000489129800096**Record 2 of 8****Author(s):** Frohlichova, M (Frohlichova, Maria); Ivanisin, D (Ivanisin, Dusan); Findorak, R (Findorak, Robert); Dzupkova, M (Dzupkova, Martina); Legemza, J (Legemza, Jaroslav)**Title:** The Effect of Concentrate/Iron Ore Ratio Change on Agglomerate Phase Composition**Source:** METALS**Volume:** 8**Issue:** 11**Pages:** 973-973**Published:** NOV 2018

**Abstract:** The work is focused on studying the influence of the ratio of concentrate to iron ore on the phase composition of the iron ore agglomerate. The concentrate has significantly higher iron content than used iron ore, and is a determining factor, which influences the richness of the batch and consequently, the richness of the agglomerate. The increased iron content in the agglomerate can be achieved by adjusting the raw material ratio in which iron ore materials are added to the agglomeration mixture. If the ratio is in favor of iron ore this reflects in lower iron content in the resulting agglomeration mixture. If the ratio is in favor of a concentrate, which is finer, the fraction share of less than 0.5 mm will be increased, the permeability of the batch will be reduced, the performance of the sintering belt will decrease and the presence of solid pollutants will increase. The possibility of concentrate replacement by iron-rich iron ore with granulometry similar to that of concentrate was experimentally verified. The effect of the concentrate replacement by the finer iron-rich ore was tested in a laboratory sintering pan. There were performed six sinterings, with gradually changing ratio concentrate/iron ore (C/O). The change in the ratio of concentrate to iron ore, does not cause the occurrence of new phases, only the change in their prevalence, which does not bring a significant change of the qualitative indicators of the compared agglomerates. Concentrate replacement by iron ore up to 50% was optimal from technological, quality, and environmental aspects.

**Accession Number:** CCC:000451735100112**ISSN:** 2075-4701**Record 3 of 8****Author(s):** Semanova, Z (Semanova, Z.); Legemza, J (Legemza, J.); Hrubovcakova, M (Hrubovcakova, M.); Findorak, R (Findorak, R.); Frohlichova, M (Frohlichova, M.)**Title:** INFLUENCE OF INTENSIFICATION FACTORS ON QUALITY OF Fe AGGLOMERATES MADE WITH ALTERNATIVE FUEL**Source:** ARCHIVES OF METALLURGY AND MATERIALS**Volume:** 63**Issue:** 4**Pages:** 1853-1857**Published:** 2018

**Abstract:** Currently is the biggest problem of metallurgical companies the increase of fossil fuel prices and strict environmental regulations. As a result of this, companies must look for alternatives that would reduce the amount of fossil fuels and reduce emissions. Wood sawdust has huge energy potential, which can be used in the process of agglomerate production. This type of energy is locally available, has some similar properties as fossil fuels and is economically advantageous. For these reasons, experimental study using laboratory agglomeration pan was realized to study the possibility of agglomerate production with a mixed fuel. Experimental results show the viability of mixed fuel use in the agglomeration process, but also show significant possibility for improvement. The maximum acceptable substitution ratio, which corresponds to qualitatively suitable agglomerate is 20% of pine sawdust. Based on the realized experiments and the obtained results we have acceded to the intensification of the agglomeration process with an objective to increase the amount of added substitution fuel while maintaining the required quality of agglomerate.

**Accession Number:** CCC:000453260800037**ISSN:** 1733-3490**Record 4 of 8****Author(s):** Frohlichova, M (Frohlichova, M.); Findorak, R (Findorak, R.); Legemza, J (Legemza, J.); Dzupkova, M (Dzupkova, M.)**Title:** THE FUSION CHARACTERISTICS OF ASHES FROM LIGNIN AND THE COKE BREEZE**Source:** ARCHIVES OF METALLURGY AND MATERIALS**Volume:** 63**Issue:** 3

**Pages:** 1523-1530**Published:** 2018

**Abstract:** In this paper are presented results of study fusion characteristics of the biomass ashes from the hydrolyzed lignin and the ashes from the coke breeze. The hydrolyzed lignin ashes were compared with the coke breeze ashes i.e. with a fossil fuel. These ashes were prepared in muffle furnace at the temperature of 550 degrees C (hydrolyzed lignin) and 850 degrees C (coke breeze).

Biomass (the hydrolyzed lignin) represents the new fuels for sintering process and an attractive way to decrease CO<sub>2</sub> emissions from the energy production. The characterization methods were the following: standard fuel characterization analyses, chemical and mineralogical composition of the ashes and phase analyses of the ashes of biomass and the coke breeze. These ashes were prepared by the same method.

Characterisation of the ashes samples was conducted by means of X-ray fluorescence (XRF), X-ray diffraction (XRD) and scanning electron microscopy (SEM). Quantitative analysis of the crystalline and amorphous phases in each of the ash samples were carried out using the Rietveld method. The dominant phase of the ash from the coke breeze was mullite (Al<sub>6</sub>Si<sub>2</sub>O<sub>13</sub>). SiO<sub>2</sub> is the dominant phase of the ash from the hydrolyzed lignin.

**Accession Number:** CCC:000453253300065**ISSN:** 1733-3490**Record 5 of 8****Author(s):** Findorak, R (Findorak, Robert); Frohlichova, M (Frohlichova, Maria); Legemza, J (Legemza, Jaroslav); Findorakova, L (Findorakova, Lenka)**Title:** Thermal degradation and kinetic study of sawdusts and walnut shells via thermal analysis**Source:** JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY**Volume:** 125**Issue:** 2**Pages:** 689-694**Published:** AUG 2016

**Abstract:** The present work deals with thermal degradation and kinetic study of chosen types of biomass in order to evaluate their usefulness as a supplementary fuel in the iron ore sintering process. The thermal stability and degradation of sawdusts and walnut shells were studied by TG/DTG coupled with differential thermal analysis (DTA) under air from 40 to 700 A degrees C. The kinetic experiments were performed at different heating rates 5, 10, 15 A degrees C min<sup>-1</sup>. From the thermogravimetric experiments of each sample, it was found that the mass loss characteristics under air atmosphere showed similar combustion profiles. However, the thermal degradation temperature of walnut shell was higher than sawdust samples and the residual mass was lowest, what indicated that the higher combustion was found at the walnut shell sample.

**Accession Number:** CCC:000379491400016**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
Findorak, Robert	D-8842-2015	

**ISSN:** 1388-6150**Record 6 of 8****Author(s):** Frohlichova, M (Frohlichova, M.); Ivanisin, D (Ivanisin, D.); Maslejova, A (Maslejova, A.); Findorak, R (Findorak, R.); Legemza, J (Legemza, J.)**Title:** IRON-ORE SINTERING PROCESS OPTIMIZATION**Source:** ARCHIVES OF METALLURGY AND MATERIALS**Volume:** 60**Issue:** 4**Pages:** 2895-2899**Published:** 2015

**Abstract:** The work deals with examination of the influence of the ratio between iron ore concentrate and iron ore on quality of produced iron ore sinter. One of the possibilities to increase iron content in sinter is the modification of raw materials ratio, when iron ore materials are added into sintering mixture. If the ratio is in favor of iron ore sinter, iron content in resulting sintering mixture will be lower. If the ratio is in favor of iron ore concentrate and recycled materials, which is more fine-grained, a proportion of a fraction under 0.5 mm will increase, charge permeability property will be reduced, sintering band performance will decrease and an occurrence of solid particulate matter in product of sintering process will rise. The sintering mixture permeability can be optimized by increase of fuel content in charge or increase of sinter charge moisture. A change in ratio between concentrate and iron ore has been experimentally studied. An influence of sintering mixture grain size composition, a charge grains shape on quality and phase composition on quality of the produced iron sinter has been studied.

**Accession Number:** CCC:000369502200064**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
Findorak, Robert	D-8842-2015	

**ISSN:** 1733-3490**Record 7 of 8****Author(s):** Frohlichova, M (Frohlichova, M.); Legemza, J (Legemza, J.); Findorak, R (Findorak, R.); Maslejova, A (Maslejova, A.)**Title:** BIOMASS AS A SOURCE OF ENERGY IN IRON ORE AGGLOMERATE PRODUCTION PROCESS**Source:** ARCHIVES OF METALLURGY AND MATERIALS**Volume:** 59**Issue:** 2**Pages:** 815-820**Published:** 2014

**Abstract:** This article contains characteristics of selected types of biomass, which can be considered as an alternative fuel in the production of iron ore agglomerate.

Selected types of biomass were evaluated by chemical analysis, X-ray phase analysis and microscopic analysis using the camera on microscope Olympus BX 51. Biomass was characterized according to its structure, chemical composition and chemical composition of ash. The obtained data were confronted with the data for coke breeze and based on the results, conclusions were made about the possible use of selected types of biomass as an alternative fuel in the process of iron ore agglomerate production.

**Accession Number:** CCC:000338782000067

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## Record 8 of 8

Author(s): Frohlichova, M (Froehlichova, M.); Findorak, R (Findorak, R.); Legemza, J (Legemza, J.)

Title: STRUCTURAL ANALYSIS OF SINTER WITH TITANIUM ADDITION

Source: ARCHIVES OF METALLURGY AND MATERIALS

Volume: 58

Issue: 1

Pages: 179-185

Published: 2013

**Abstract:** Paper presents the results from the study of the effect of materials with titanium addition on the strength properties of the iron ore sinter. The sinters with TiO<sub>2</sub> addition or without TiO<sub>2</sub> addition prepared in laboratory were applied in this research and were compared based on the structural and phase composition. Exploited was the method of the X-ray diffraction and method of elemental EDX analysis applying the electron raster microscope with the energo-dispersion analyser. Confirmed was the relationship between the sinter structure and its strength. Higher strength of the sinter without TiO<sub>2</sub> addition is the result of the different phase composition of the compared sinters. In the sinter production considered should be not only the chemical composition of the entry components of the charge and the chemical composition of the final product but also its structural and phase composition.

Accession Number: CCC:000318422000029

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