Bibliografija

Doktorska disertacija: Istraživanje pulzirajućeg sagorijevanja gasovitog goriva sa analizom mogućnosti primjene, Univerzitet u Sarajevu, Mašinski fakultet, Sarajevo, 1991.
Magistarski rad: Doprinos razvoju detonaciono-impulsnog postupka za sprječavanje formiranja i otklanjanje naslaga sa vanjske strane kotlovskih ogrijevnih površina tokom pogona, Univerzitet u Sarajevu, Mašinski fakultet, Sarajevo, 1984.

I. Knjige (Books)

I.1. Autor/ koautor (Author/ Co-author)

1. **Izet Smajević**, K. Hanjalić, 2007, *Toplotne turbomašine*, TKD Šahinpašić, Sarajevo. ISBN 978-9958-41-194-6, 256 str, univerzitetski udžbenik.
2. **Izet Smajević**, N. Hodžić, 2002, *Kotlovi, ložišta i peći: Izvodi iz teorije i zadaci*, Mašinski fakultet Sarajevo/ Dom štampe d.d. Zenica. ISBN 9958-601-06-0, 117 str, univerzitetski udžbenik.

I.2. Urednik/ kourednik (Editor/ Co-editor)

1. K. Hanjalić, A. Knežević, **Izet Smajević**, H. Šehović, 2017, Energetika BiH na raskršću: uloga znanja u odlučivanju i tranziciji, Kolokvij 2016, ANUBiH, Posebna izdanja, Knjiga CLXX/ Odjeljenje tehničkih nauka, OEEO, Knjiga 18, ISBN 978-9926-410-21-6, 125 str.

II. Poglavlja/ prilozi u knjigama (Chapters/ articles in books)

1. A. Bašić, E. Džananović, A. Kazagić, **Izet Smajević**, 2017, Feasibility of Biomass Co-firing in Large Boilers: The Case of EPBiH Thermal Power Plants. In: Advanced Technologies, Systems, and Applications, Springer's Book, ISBN 978-3-319-47295-9, 231-247.
2. **Izet Smajević**, K. Hanjalić, 2005, Towards sustainable power from coal: Two decades of on-load detonation-wave boiler cleaning in a coal-fired power plant. In: N.H. Afgan, Ž. Bogdan, N. Duić, Z. Guzović (Eds), *Sustainable Development of Energy, Water and Environment Systems II*, Published by Faculty of Mechanical Engineering and Naval Architecture of the University Zagreb/ Croatia, ISBN: 953-6313-69-3, 153-165.
3. **Izet Smajević**, K. Hanjalić, 2004, Stoßwellen-Reinigungstechnik in einem mit Kohle befeuerten Kraftwerk. In: *Verminderung der Belags- und Korrosionsbildung in Kraftwerken, Handbuch*, Die Deutsche Bibliothek, CIP-Einheitsaufnahme, Veröffentlicht bei PUBLICO Publications, Essen/ Deutschland, ISBN: 3-934736-13-0, 364-374.
4. **Smajević, I.**, Hanjalić, K., 1995, A computational model of an aerodynamically-valved Helmholtz-type pulse combustor. In: K. Hanjalić and J. M. Kim (Eds), Proc. 2nd Int. Forum on Expert Systems and Computer Simulation in Energy Engineering (Erlangen, Germany, 1992), Begell House Inc., New York, Wallingford, 1995, ISBN 1-56700-031-02, 316-321.
5. **Izet Smajević**, K. Hanjalić, 1987, *Detonation wave technique for on-load cleaning of gas-side surfaces of steam boilers*. In: K. Hanjalić, F. Durst, S, Oka (Eds), *Low-Pollution and Efficient Combustion of Low-Grade Coals*, ANUBiH Special Publication, Vol. LXXXI/ Dept. of Technical Sciences, Vol. 15, YU ISBN 86-7123-011-2, Sarajevo, 327 pages.

III. Monografije (Monographs)

1. **Izet Smajević**, E. Šabanović, 1988, *Kotao bloka 6 u TE Kakanj: koncepcija i pogonski problemi*, EP BiH/ TE Kakanj, 117 strana.

IV. Radovi u časopisima (Journal publications)

IV.1. Naučni radovi u časopisima (Scientific journal publications)

1. A. Kazagić, M. Musić, **Izet Smajević**, A. Ademović, E. Redzić, 2016, Possibilities and sustainability of "biomass for power" solutions in the case of a coal-based power utility, Clean Technologies and Environmental Policy, **18**(6): 1675-1683.
2. N. Hodžić, **Izet Smajević**, A. Kazagić, 2016, Concept of co-firing coal with biomass and natural gas: On track of sustainable solution for future thermal power plants, Thermal Science, **20**(4):1171-1184.
3. N. Hodzic, A. Kazagić, **Izet Smajević**, 2016, Influence of multiple air staging and reburning on NOx emissions during co-firing of low rank brown coal with woody biomass and natural gas, Applied Energy, **168** (2016): 38-47.
4. **Izet Smajević**, N. Hodzić, A. Kazagić, 2014, Lab-scale Investigation of Middle-Bosnia Coals to Achieve High-Efficient and Clean Combustion Technology, Thermal Science, **18**(3): 875-888.
5. N. Hodžić, A. Kazagić, **Izet Smajević**, 2014, Laboratorijska istraživanja sagorijevanja u letu ugljeva srednjebosanskog bazena u suhom režimu odvođenja šljake, Bosanskohercegovačka elektrotehnika, **8**/2004: 4-11.
6. S. Selimović, **Izet Smajević**, Š. Goletić, J. Duraković, 2014, Primjena modela disperzije polutanata emitovanih iz tačkastog izvora emisije sa validacijom rezultata putem sistema okolinskog monitoringa, Bosanskohercegovačka elektrotehnika, **8**/2004: 12-20.
7. **Izet Smajević**, A, Kazagić, M. Musić, K. Bečić, I. Hasanbegović, Š. Sokolović, N. Delihasanović, A, Skopljak, N. Hodžić, 2012, Co-firing Bosnian Coals with Woody Biomass: Experimental Studies on a Laboratory-Scale Furnace and 110 MWe Power Unit, Thermal Science, Vol. **16**(3): 789-804
8. A, Kazagić, **Izet Smajević**, N. Duić, 2010, Selection of Sustainable Technologies for Combustion of Bosnian Coals, Thermal Science, Vol. **14**(3): 715-727.
9. **Izet Smajević**, 2010, Experimental Study and Computational Modelling of Gas-Fired Puls Combustion, International Journal of Automotive and Mechanical Engineering (IJAME), ISSN: 1985-9325 Print; 2180-1606 Online, Volume **1**: 1-12.
10. A. Kazagić **Izet Smajević**, 2009, Synergy Effects of Co-firing of Wooden Biomass with Bosnian Coal, Energy (Elsevier), **34**(2008), doi: 10.1016/j.energy.2008.10.007: 699-707
11. D.R. Schneider, N. Duić, I. Raguzin, Ž. Bogdan, M. Ban, B. Grubor, P. Stefanović, D. Dakić, B. Repić, Ž. Stevanović, A. Žbogar, M. Studović, S. Nemoda, N. Oka, D. Djurović, N. Kadić, V. Bakić, S. Belošević, A. Erić, R. Mladenović, M. Paprika, N. Delalić, A. Lekić, R. Bajramović, A. Teskeredžić, **Izet Smajević**, E. Džaferović, F. Begić, H. Lulić, S. Metović, S. Petrović, A. Đugum, Dž. Kadrić, N. Hodžić, F, Kulić, A. Kazagić, A. Gafić, 2007, Mapping the Potential for Decentralized Energy Generation Based on RES in Western Balkans, Original Scientific Paper, Thermal Science, Vol. **11**(3): 7-26.
12. A. Kazagić, **Izet Smajević**, 2007, Experimental Investigation of Ash Behavior and Emission During Combustion of Bosnian Coal and Biomass, Energy (Elsevier), **32**(2007), doi: 10.1016/j.-energy.2007.03.007: 2006-2016,

13. **Izet Smajević**, 2005, Znanjem do boljih performansi postrojenja za transport pepela: Primjer u TE Kakanj, Mašinstvo **1**-2: 47-56.
14. **Izet Smajević**, K. Hanjalić, 2004, Zwanzig Jahre erfolgreiche Anwendung der Stosswelen-Reinigungstechnik in einem mit Kohle befeurtem Kraftwerk, VGB PowerTech **8**(2004), Int. Journal for Electricity and Heat Gen., Essen/ Germany; 71-75.
15. **Izet Smajević**, 2004, Perspektiva proizvodnje električne energije iz uglja u Bosni i Hercegovini, Izvornonaučni rad, Mašinstvo **8**-2: 95-108.
16. **Izet Smajević**, F. Schoder, 1998, Wirbelschichtwärmeübertrager in der letzten Stufe einer Eindampfanlage, Teil 1: Lösung des Problems einer instabilen Wirbelschicht, Chemie Ingenieur Technik (70) **10**/98: 1311-1318.
17. **Izet Smajević**, F. Schoder, 1998, Wirbelschichtwärmeübertrager in der letzten Stufe einer Eindampfanlage, Teil 2: Salzkugelbildung im Umwälzkreislauf, Chemie Ingenieur Technik (70) **11**/98: 1406-1411.
18. K. Hanjalić, **Izet Smajević**, 1994, Detonation Wave Technique for On-Load Deposit removal From Surfaces Exposed to Fouling, Part I; Experimental Investigation and Development of the Method, ASME Journal of Engineering for Gas Turbines and Power, Vol. **116**: 223-230.
19. K. Hanjalić, **Izet Smajević**, 1994, Detonation Wave Technique for On-Load Deposit removal From Surfaces Exposed to Fouling, Part II: Full Scale Application, ASME Journal of Engineering for Gas Turbines and Power, Vol. **116**: 231-236.
20. K. Hanjalić, **Izet Smajević**, 1993, Further experience in using detonation waves for cleaning boilers heating surfaces, International Journal of Energy Research, Vol. **17**: 583-595.
21. **Izet Smajević**, K. Hanjalić, 1992, Pulzirajuće sagorijevanje: Laboratorijska istraživanja i analiza mogućnosti primjene u kotlovima velike snage, Elektroprivreda (Jugoslavije, Beograd), **1-2**/1992: 60-65.
22. K. Hanjalić, **Izet Smajević**, 1991, Noviji rezultati istraživanja i primjene udarnih talasa na čišćenje kotlovskih ogrijevnih površina, Strojarstvo **33**(1): 23-29(1991).
23. **Izet Smajević**, K. Hanjalić, 1991, Nektore vysledky experimentalneho vyskumu pulzačneho spalovania, Energetika **8**/41: 257-260.
24. **Izet Smajević**, K. Hanjalić, 1987, Primjena detonacionih talasa na čišćenje vanjske strane kotlovskih ogrijevnih površina, Strojarstvo **29**(1): 21-33.
25. **Izet Smajević**, K. Hanjalić, 1986, Eksperimentalni rezultati i neka iskustva u primjeni detonacionih talasa na čišćenje kotlovskih ogrijevnih površina, Elektroprivreda (Jugoslavije, Beograd), 5-6/1986: 179-188.
26. **Izet Smajević**, K. Hanjalić, 1986, Primjena detonacionih talasa na čišćenje vanjske strane kotlovskih ogrijevnih površina, Techničke Informacije Jugoturbine i TPK, **20**(1986)1: 31-44.
27. **Izet Smajević**, K. Hanjalić, 1986, Neka iskustva u primjeni detonaciono-impulsnog postupka na čišćenje kotlovskih ogrijevnih površina u Termoelektrani Kakanj, Energetičar, **1**/1986: 5-13.
28. **Izet Smajević**, 1984, Neki uzroci pogoršanja specifičnog utroška toplote na termoblokovima 4x32 MW u Termoelektrani Kakanj, Energetičar, **1**/1984: 17-26.

IV.2. Stručni radovi u časopisima (Profesional journal publications)

1. **Izet Smajević**, 2003, Na putu održive transformacije energije iz uglja: Dvadeset godina uspješne primjene detonaciono-impulsnog postupka na čišćenje kotlova tokom pogona, Stručno-informativni list Elektroprivreda BiH, **81**(2003): 30-34.
2. K. Bečić, **Izet Smajević**, Š. Beganović, 2001, Iskustva u primjeni Taprogge-uređaja na čišćenje kondenzatorskih cijevi u Termoelektrani Kakanj, Stručno-informativni list Elektroprivreda BiH, **54**(2001).

3. E. Šabanović, **Izet Smajević**, 1999, Efekti sanacija izvršenih na postrojenjima u TE Kakanj u periodu 1996-1998, Stručno-informativni list Elektroprivreda BiH, **30**(1999).
4. **Izet Smajević**, E. Sabanović, 1985, Ušteda energije na bloku 4 u Termoelektrani Kakanj, Energetičar**, 2**/1985: 27-30.
5. **Izet Smajević**, 1982, Transport ugljenog praha kroz cijevi iza mlinova nakon rekonstrukcije cijevnih koljena, Informativni bilten Termoelektrane Kakanj, **155**/IV.
6. **Izet Smajević**, 1981, Novi eksperimentalni rezultati uklanjanja čađi u Termoelektrani Kakanj pomoću detonacionih talasa, Informativni bilten Termoelektrane Kakanj, **105**/III.
7. **Izet Smajević**, 1980, Prvi rezultati eksperimentalnog uklanjanja naslaga sa kotlova Steinmüller u TE Kakanj impulsno-detonacionom tehnikom, Informativni bilten Termoelektrane Kakanj, **4**/II.

V. Radovi u zbornicima (Articles in conference proceedings)

V.1. Zbornici međunarodnih konferencija (International conference proceedings)

1. Rutz, D., **Smajević, I.** et al, 2017, The combination of biomass with solar thermal energy and other renewables for small heating grids: The EU CoolHeating Project, 25th European Biomass Conference & Exhibition, June 12-15, 2017, Stockholm, Sweden.
2. Rutz, D., **Smajević, I.** et al., 2016, Small, Modular and Renewable District Heating & Cooling Grids for Communities in South-Eastern Europe, 24th European Biomass Conference and Exhibition (EUBCE 2016), June 2016, Amsterdam, Nederland.
3. Basić, A., Džananović, E., Kazagić, A., **Smajević, I.**, 2016, Feasibility of Biomass Co-firing in Large Boilers: The Case of EPBiH Thermal Power Plants, Osmi Dani BHAAAS (Bosanskohercegovačko-američka akademija nauka i umjetnosti), May 26-29, 2016, Neum, BiH.
4. **Smajević, I.**, Hodžić, N., 2015, Pulse Combustor as a Potential Tool for Improving the Energa Efficiency of the Power Plants, 5th International Conference on Environmental and Material Flow Management, EMFM 2015, November 05-07, Zenica, BiH.
5. Hodžić, N., **Smajević, I.**, Kazagić, A., 2015, Co-combustion Middle Bosnian coal with woody biomass in terms of application of different primary measures in the furnace, 5th International Conference on Environmental and Material Flow Management, EMFM 2015, November 05-07, Zenica, BiH.
6. Hodžić, N., **Smajević, I.**, Kazagić, A., 2015, Concept of cofiring coal with biomass and natural gas - on track of sustainable solution for future thermal power plants, 10th International Conference on Sustainable Development of Energy, Water and Environmental Systems, SDEWES 2015, Sept. 27-Oct. 03, Dubrovnik, Croatia. (*Paper accepted for publishing in journal Thermal Science*)
7. Kazagić, A., Musić, M., **Smajević, I.**, Ademović, A., Redžić, E., 2015, Possibilities and Sustainability of "Biomass for Power" Solutions in Case of EPBiH Electricity Utility, 10th International Conference on Sustainable Development of Energy, Water and Environmental Systems, SDEWES 2015, Sept. 27-Oct. 03, Dubrovnik, Croatia. (*Paper accepted to Springer's journal Clean Technology and Environmental Policy)*
8. Hodžić, N., **Smajević, I.**, Kazagić, A., 2015, Mitigation of Ash-related Problems by Cofiring Coal with Woody Biomass in Case of Kakanj Thermal Power Plant – Experimental and Trial Run, 23rd European Biomass Conference and Exhibition (EUBCE 2015), June 01-04, 2015, Vienna, Austria.
9. Hodžić, N., **Smajević, I.**, Kazagić, A., 2015, *Effects of cofiring Bosnian coal with woody biomass and natural gas on NO_x emissions under different process conditions*, 10th European Conference on Industrial Furnace and Boilers (INFUB-10), April 07-11, 2015, Gaia (Porto), Portugal.

10. **Smajevic I.**, Hodzic N., Kazagic A., *2014, Research into coal combustion predictors for cleaner and cost effective power generation,* 46. Kraftwerkstechnisches Kolloquium, October 14-15. 2014, Dresden, FR Germany.
11. **Smajević, I.**, Hodžić, N., Kazagić, A., 2013, Lab-scale Investigation of Middle-Bosnia Coals to Achieve High-Efficient and Clean Combustion Technology, Archival paper, 8th International Conference on Sustainable Development of Energy, Water and Environmental Systems, SDEWES 2013, September 25-29, 2013, Dubrovnik, Croatia.
12. Hanjalić, K., **Smajević, I.**, 2012, Detonation-Wave Technique for On-Load Deposit Removal In Coal-Fired Boilers, VIII All-Russian Conference with international participation: Combustion of Solid Fuel/ VIII Всероссийская конференция с международным участием: Горение твердого топлива, The Ministry of Education and Science of RF, Russian Federation, Novosibirsk IT SB RUS, November 13-16, 2012.
13. Kazagić, A., Hodžić, N., **Smajević, I.**, 2012, Tests of Cofiring Waste Wooden Biomass with Bosnian Coals in Laboratory and on 110 MWe Power Station, 4th International Conference on Engineering for Waste and Biomass Valorisation, September 10-13, 2012, Porto, Portugal.
14. **Smajević, I.**, Kazagić, A., Hodžić, N., 2012, Synergy Effects of Co-combustion Coal with Wooden Biomass at 110 MWe Power Station Kakanj Unit 5, 7th Conference on Sustainable Development of Energy, Water and Environment Systems, Archival paper, July 1-7, 2012, Ohrid, Republic of Macedonia. *(The award for best paper of the SDEWES2012 conference)*
15. **Smajević, I.**, Kazagić, A., Hodžić, N., 2012, Co-firing Tests of Bosnian Coal with Wooden Biomass and Natural Gas in Laboratory and on 110 MWe Power Station, 2nd Workshop Cofiring Biomass with Coal, March 27-28, 2012, Copenhagen, Denmark.
16. **Smajević, I.**, Musić, M., Kazagić, A., Skopljak, A., 2012, Natural gas as possible new primary fuel in coal based PPs installed in JP EP BiH d.d. Sarajevo: benefits and limits, 5th International Gas Conference of the SEE Region: Natural Gas in Light of New Intentions on the Energy Market, February 27-29, 2012, Sarajevo, BiH.
17. Hodžić, N., Kazagić, A., **Smajević, I.**, 2012, *The Effect of Natural Gas as a Secondary Fuel on Environmental Features of Coal and Wood Biomass Cofiring*, 5th International Gas Conference of the SEE Region: Natural Gas in Light of New Intentions on the Energy Market,, February 27-29, 2012, Sarajevo, BiH.
18. **Smajević, I.**, Kazagić, A., Musić, M., Hodžić, N., Bečić, K., Hasanbegović, I., Sokolović, Š., Delihasanović N., and Skopljak, A., 2011, Research into Co-firing of Bosnian Coal with Woody Biomass – from Experimental Runs in Laboratory to the Trial Runs in Large Utility of JP Elektroprivreda BiH d.d. Sarajevo, 6th Dubrovnik Conference on Sustainable Development of Energy, Water and Environment Systems, Oral presentation, September 25-29, 2011, Dubrovnik, Croatia.
19. Hodžić, N., **Smajević, I.**, Metović, S., 2011, Influence of Substoichiometric Conditions on Evaporator Tubes Inside the Boiler of Unit 7 at Thermo Power Plant Kakanj, 9th European Conference on Industrial Furnaces and Boilers - INFUB, April 26-29, 2011, Estoril, Portugal.
20. **Smajević, I.**, Kazagić, A., 2011, Research into Co-firing of Bosnian Coal with Woody Biomass: From Experimental Runs in Laboratory to the Trial Runs in Large Utility, 9th European Conference on Industrial Furnaces and Boilers - INFUB, April 26-29, 2011, Estoril, Portugal.
21. Kazagić, A., **Smajević, I.**, 2011, Experimental Research into Combustion of Bosnian coal to Acquire Specific Data for Design and Operation of Large Boilers, 9th European Conference on Industrial Furnaces and Boilers - INFUB, April 26-29, 2011, Estoril, Portugal.
22. Kazagić A., **Smajević I.**, 2010, Research into Ash Deposits During Co-firing of Bosnian Brown Coal and Lignite with Wooden Biomass in an Experimental Furnace, 11th Turkish Combustion Symposium, Sarajevo 2010.

23. Kazagić A., **Smajević I.**, 2010, Emissions of NOx and SO2 During Co-firing Bosnian Coals with Wooden Biomass, 11th Turkish Combustion Symposium, Sarajevo 2010.
24. Kazagić, A., **Smajević, I.**, 2010, Laboratory Research on Co-Firing Wooden Biomass with Bosnian Brown Coal and Lignite for Large Utility, 18th European Biomass Conference and Exhibition, 3-7 May 2010, Lyon Convention Center, France.
25. Hodžić, N., Metović, S., **Smajević, I.**, 2009, Pulse combustion burner as cleaning device of boiler heating surfaces, 13th International Research/Expert Conference: Trends in the Development of Machinery and Associated Technology, TMT 2009, 16-21 October 2009, Hammamet, Tunisia.
26. Kazagić, A., **Smajević, I.**, Duić, N., 2009, Selection of Sustainable Technologies for Combustion of Bosnian Coals, 5th Dubrovnik Conference on Sustainable Development of Energy, Water and Environment Systems, September 30- October 03, 2009, Dubrovnik, Croatia.
27. Hodžić, N., Metović, S., **Smajević, I.**, 2009, Perfomanse gorionika za pulzirajuće sagorijevanje na propan-butan, Naučno-stručni skup o gasu i gasnoj tehnici sa međunarodnim učešćem, GAS 2009, 19.-22. maj 2009., Vrnjačka Banja, Srbija.
28. 11. Smajević, I.: Potential Possibility of Natural Gas Utilization in JP Elektroprivreda BiH d.d.-Sarajevo, 3rd International Symposium on Natural Gas Operations (INGAS2009), 9-10 June 2009, Istanbul, Turkey,
29. Kazagić, A., **Smajević, I.**, 2009, Effects of cofiring Bosnian coal with wooden biomass to the emissions of NO_x and SO_2, 4th European Combustion Meeting, Vienna University of Technology, 14-17 April 2009, Vienna, Austria.
30. **Smajević, I.**, 2009, Possibility to introduce the natural gas as a secondary fuel to the coal based PPs of JP EP BiH d.d. Sarajevo, 4th International Gas Conference of the SEE Region: Importance of Natural Gas during the Next Decade, February 11-13, 2009, Sarajevo, BiH.
31. **Smajević, I.**, Kazagić A., 2008, Evaluation of Ash Deposits During Experimental Investigation of Co-firing of Bosnian Coal with Wooden Biomass, 40. Kraftwerkstechnisches Kolloquium: Künftiges Brennstoff- und Technologieprotfolio in der Kraftwerkstechnik, Tagungsband 2, Seiten 238-249, im Congresscenter Dresden, 14-15 Oktober 2008, BRD.
32. Kazagić, A., **Smajevic, I.**, 2008, Sustainability Assessment of Co-firing of Coal with Wooden Biomass in 110 MW TPP Kakanj Unit 5, The Clearwater Coal Conference: Coal for the Future, 33rd International Technical Conference on Coal Utilization & Fuel Systems, June 1-5, 2008, Sheraton Sand Key, Clearwater, Florida, USA.
33. Kazagic, A., **Smajević, I.**, 2008, Investigation of Coal Combustion Indicators by an Experimental Method, The Clearwater Coal Conference: Coal for the Future, 33rd International Technical Conference on Coal Utilization & Fuel Systems, June 1-5, 2008, Sheraton Sand Key, Clearwater, Florida, USA.
34. **Smajević, I.**, Kazagić, A., 2008, Optimization of Ambient Conditions of Pulverized-Fuel Combustion by an Experimental Method, 8th European Conference on Industrial Furnaces and Boilers, INFUB, March 25-28, 2008, Vilamoura, Portugal.
35. Kazagić, A., **Smajević, I.**, 2008, Experimental Investigation of Co-firing of Bosnian Coal with Wooden Biomass, 8th European Conference on Industrial Furnaces and Boilers, INFUB, March 25-28, 2008, Vilamoura, Portugal.
36. Milovanović, N. Z., **Smajević, I.**, 2008, Thermo-Energy Potential of Bosnia and Herzegovina Today and Projections for the Future, Scientific Colloquium: Decision Making Principles in Building of Electric Power Sources, Academy of Science and Arts of Bosnia and Herzegovina, March 26-28, 2008, Sarajevo, Bosnia and Herzegovina.
37. Hodžić, N., Metović, S., **Smajević, I.**, 2007, Water-Cooled Pulse Combustor Performances, 11th International Research/Expert Conference; Trends in the Development of Machinery and Associated Technology, TMT 2007, September 5-9, 2007, Hammamet, Tunisia.

38. Kazagić, A., **Smajević, I.**, 2007, Possible Synergy Effects of the Co-firing of Wooden Biomass with Bosnian Coal, 4th Dubrovnik Conference on Sustainable Development of Energy, Water and Environment Systems, June 4-8 2007, Dubrovnik, Croatia.
39. Kazagić, A., **Smajević, I.**, 2006, Investigation Results of Combustion and Co-Combustion of Bosnian Coals, XXXVIII Kraftwerkstechnisches Kolloquium: Kraftwerksbetrieb unter künftigen Rahmenbedingungen, Poster presentation, 24. und 25. Oktober 2006, Congress Center Dresden, BR Deutschland.
40. Hodžić, N., Metović, S., **Smajević, I.**, 2006, Pulsating Combustion Burner on the Boiler Model: An Experiment Supported by Numerical Investigation, Original scientific paper, 10th International Research/ Expert Conference: Trends in the Development of Machinery and Associated Technology, TMT, September 2006, Barcelona, Spain.
41. Petrović, S., Hodžić, N., **Smajević, I.**, 2005, Biomass resources in Bosnia and Herzegovina, Original scientific paper, Poster Presentation and CD-Proceedengs, 14th European Biomass Conference and Exhibition, 17-21 October 2005, Paris, France.
42. Metović, S., Hodžić, N., **Smajević, I.**, 2005, Some new results from on-going experimental and numerical investigation of pulse combustion, 9th International Research/Expert Conference: Trends in the Development of Machinery and Associated Technology, TMT 2005, 26-30 September 2005, Antalya, Turkey.
43. Kazagić, A., **Smajević, I.**, 2005, On the way to clean coal technologies: Research into specific problems of bosnian coals combustion, 9th International Research/Expert Conference: Trends in the Development of Machinery and Associated Technology, TMT 2005, 26-30 September 2005, Antalya, Turkey.
44. Petrović, S., **Smajević, I.**, 2005, The role of renewable energy resources in sustainable development of Bosnia and Herzegovina: The current situation and possibilities in future development with biomass, Poster Presentation and CD-Proceedengs, The World Sustainable Building Conference in Tokyo, SB05, 27-29 September 2005, Tokyo, Japan.
45. Metović, S., **Smajević, I.**, 2005, Numerical Investigation of Pulse Combustion, South-Eastern Europe Fluent Event 2005, Proceedings, Porto Carras Grand Resort, 11-13 May 2005, Halkidiki, Greece.
46. Schneider, D. R., Duić, N., Bogdan, Ž., Ban, M., Grubor, B., Stefanović, P., Dakić, D., Repić, B., Stevanović, Ž., Zbogar, A., Studović, M., Nemoda, S., Oka, N., Đurović, D., Bakić, V., Belošević, S., Erić, A., Mladenović, R., Paprika M., Delalić, N., Lekić, A., Bajramović, R., Teskeredžić, A., **Smajević, I.**, Džaferović, E., Begić, F., Lulić, H., Metović, S., Petrović, S., Đugum, A., Kadrić, Dž., Hodžić, N., Kulić, F., Kazagić, A., Gafić, A., 2005, Mapping the potential for Decentralized Energy Generation based on RES in Western Balkans, 3rd Dubrovnik Conference on Sustainable Development of Energy, Water and Environment Systems, June 5-10, 2005, Dubrovnik, Croatia.
47. Petrović, S., **Smajević, I.**, 2004, Biomass as renewable energy resource in Bosnia and Herzegovina: The state with the wooden waste, International Symposium Energetics 2004, October 07-09, Ohrid, Republic of Macedonia.
48. Petrović, S., **Smajević, I.**, Metović, S., Hodžić, N., 2004, Energy potential and possibility of energy conversion of the wooden waste in Bosnia and Herzegovina, 8th International Research/Expert Conference: Trends in the Development of Machinery and Associated Technology, TMT 2004, September 15-19, Neum, Bosnia and Herzegovina.
49. **Smajević, I.**, Hodžić, N., Metović, S.: 2004, Experimental and numerical investigation of pulse combustion, 8th International Research/Expert Conference: Trends in the Development of Machinery and Associated Technology, TMT 2004, September 15-19, Neum, Bosnia and Herzegovina.
50. Musemić, R., **Smajević, I.**, 2003, Noise Analysis and Reduction in Thermo Power Plants, 7th International Research/Expert Conference: Trends in the Development of Machinery and Associated Technology, TMT 2003, September 15-16, Barcelona, Spain.

51. **Smajević, I.**, Begić, F., Hodžić, N., Kazagić, A.: Research on Specific Problems of Combustion of Domestic Coals in Bosnia and Herzegovina, 7th International Research/Expert Conference: Trends in the Development of Machinery and Associated Technology, TMT 2003, September 15-16, Barcelona, Spain.
52. Petrović, S., **Smajević, I.**, 2003, Combustion Modeling: Assessment of Laminar Flamelet Model for Partially Premixed Flames, 7th International Research/Expert Conference: Trends in the Development of Machinery and Associated Technology, TMT 2003, September 15-16, Barcelona, Spain.
53. **Smajević, I.**, Hanjalić, K., 2003, Twenty years of experience with on-load detonation-wave deposit removal from gas-side boiler surfaces in a coal-fired power plant, In: R Maule (Ed.), IJPGC 2003. On CD-ROM (pp. 40127-1-40127-7), Atlanta, Gorgia, USA: ASME, Original scientific paper.
54. **Smajević, I.**, Hanjalić, K., 2003, Towards Sustainable Power from Coal: Two Decades of Experience with On-Load Detonation-Wave Boiler Cleaning in a Coal-Fired Power Plant, 2nd Dubrovnik Conference on Sustainable Developments in Energy, Water and Environmental Systems, June 15-20, 2003, Dubrovnik, Croatia.
55. **Smajević, I.**, Hodžić, N., Dorić, E., 2003, Retrofit of Existing Large Boilers in Bosnia and Herzegovina as a Step to the Modern Electricity Generation, 2nd Dubrovnik Conference on Sustainable Developments in Energy, Water and Environmental Systems, June 15-20, 2003, Dubrovnik, Croatia.
56. Durst, F., **Smajević, I.**, Hodžić, N., Kazagić, A., 2002, Porous media combustor with liquid fuel as an efficient replacement of gas turbine combustion chamber, Workshop and Round Table Discussion: Effective Methods of Energy Conversion and Relevant Measurement techniques, Proceedings, November 4-5, 2002, Mechanical Engineering Faculty Sarajevo, Bosnia and Herzegovina.
57. **Smajević, I.**, Hanjalić, K., Hodžić, N., 2002, Pulse combustion as a potential tool for cleaning of heating surfaces of coal burning boilers, Workshop and Round Table Discussion: Effective Methods of Energy Conversion and Relevant Measurement techniques, Proceedings, November 4-5, 2002, Mechanical Engineering Faculty Sarajevo, Bosnia and Herzegovina.
58. Hanjalić, K., **Smajević, I.**, Hodžić, N., 2002, Pulse combustion modeling and experimental verification, Workshop and Round Table Discussion: Effective Methods of Energy Conversion and Relevant Measurement techniques, Proceedings, November 4-5, 2002, Mechanical Engineering Faculty Sarajevo, Bosnia and Herzegovina.
59. Delalić, N., Sadović, T., Lekić, A., **Smajević, I.**, Stošić, N., 2002, Importance of Energy Efficiency Measurements in Thermal Power Plants, Workshop and Round Table Discussion: Effective Methods of Energy Conversion and Relevant Measurement techniques, Proceedings, November 4-5, 2002, Mechanical Engineering Faculty Sarajevo, Bosnia and Herzegovina.
60. **Smajević, I.**, Begić, F., Hodžić, N., 2002, Specific problems in combustion of B&H domestic coals, Workshop and Round Table Discussion: Effective Methods of Energy Conversion and Relevant Measurement techniques, Proceedings, November 4-5, 2002, Mechanical Engineering Faculty Sarajevo, Bosnia and Herzegovina.
61. **Smajević, I.**, Hodžić, N., 2002, Investigation of Specific Combustion Problems of Domestic Coals: Precondition for Modern Electricity Production, 6th Int. Conference Trends in Development of Machinery and Associated Technology, September 18-22, 2002, Neum, Bosnia and Herzegovina.
62. Petrović, S., **Smajević, I.**, Gass, J., 2002, Application and Assessment of Transient Laminar Flamelet Model for Partially Premixed Flames, 7th International Combustion Symposium, July 2002, Ankara, Turkey.
63. **Smajević, I.**, Petrović, S., 2002, Combustion and Emission Control by Combustion Modeling; An Application of Transient Laminar Flamelet Model and Its Further Development, 1st International Conference on Sustainable development of energy, water and environment systems, CD Proceedings (Summary Proceedings printed), June 2-7, 2002, Dubrovnik, Croatia.

64. **Smajević, I.**, Hanjalić, K., 2002, A Computational Model of an Aerodynamically- Valved Pulse Combustor, 1st International Conference on Sustainable development of energy, water and environment systems, CD Proceedings (Summary Proceedings printed), June 2-7, 2002, Dubrovnik, Croatia.
65. Petrović, S., **Smajević, I.**, 2002, Combustion Modelling: Assessment of Laminar Flamelet Model for Partially Premixed Flames, 5th International Research/Expert Conference: Energetics and Process Plants, May 22-24, 2002, Dubrovnik, Croatia.
66. **Smajević, I.**, Šabanović, E., Hodžić, N., 2001, Gibt es eine Chance auf dem liberalisierten Strommarkt für Kraftwerke Südosteuropas?, 33. Kraftwerkstechnisches Kolloquium: Zuverlässigkeit von Kraftwerksanlagen im liberalisierten Strommarkt, 23.-24.Oktober 2001, Dresden, BR Deutschland.
67. **Smajević, I.**, Hodžić N., 2000, Betriebszustandsverbeserung im Karftwerk Kakanj bei der Verbrennung der starkverschmutzungsneigenden mittelbosnischen Braunkohle, 32. Kraftwerkstech-nisches Kolloquium, Beitragmanuskripte, 24/25. Oktober 2000, Dresden, BR Deutschland.
68. **Smajević, I.**, Schoder, F., 2000, Betriebszustandsverbesserung einer mehrstufigen Rauchgaswäscheeindampfanlage mit integriertem Wirbelschichtwärmeübertrager, Int. Conference: Research for Steam Power Plants, October 10-12, 2000, Düsseldorf, BR Deutschland.
69. **Smajević, I.**, Hanjalić, K., Hodžić N., 2000, Possibility for Application of The Pulse Combustors For Cleaning Flue Gas-Side Boiler Heating Surfaces, Int. Conference: Research for Steam Power Plants, October 10-12, 2000, Düsseldorf, BR Deutschland.
70. **Smajević, I.**, Hodžić, N., 2000, Influence of the coal properties to construction and operation of coal based PP units, 6th International Research/Expert Conference: Trends in the Development of Machinery and Associated Technology, TMT 2000, Oktober 5-6, 2000, Zenica, Bosnia and Herzegovina.
71. **Smajević, I.**, Hanjalić, K., Hodžić N., 2000, Possibility for Application of The Pulse Combustors in Large Power Boilers, International Research/Expert Conference: Energetics and Process Plants, May 24-26, 2000, Dubrovnik, Croatia.
72. **Smajević, I.**, Hanjalić, K. 1998, Pulsating combustion: High efficient and low pollution technology of energy conversion, Energy and Environment, October 28-30, 1998, Opatija, Croatia.
73. **Smajević, I.**, Šabanović, E., Ross, E., Waldmann, J., 1998, Vorschläge zur Anwendung moderner Dampf- und Gasturbinentechnik in thermischen Kraftwerken von Bosnien Herzegovina zur nachhaltigen Verbesserung von Wirtschaftlichkeit, Verfügbarkeit und zur Verminderung der Umweltbelastung, Beitragmanuskripte, 30. Kraftwerkstechnisches Kolloquium: Turbomaschinen für Kraftwerke, 27.-28. Oktober 1998, Dresden, BR Deutschland.
74. Waldmann, J., **Smajević, I.**, 1998, Modernisation and Reconstruction of Thermal Power Plants in Bosnia-Herzegovina - Technical and Economic Optimal Strategies, International Conference: Advancement in Mechanical Engineering, 40th Anniversary of the Mechanical Engineering Faculty of the University Sarajevo, October 08-09, 1998, Sarajevo, BiH.
75. **Smajević, I.**, Schoder F., 1998, Cleaning of the seeping water in a fluidized bed heat exchanger, 4th International Research/Expert Conference: Trends in the Development of Machinery and Associated Technology, TMT 1998, Oktober 1998, Zenica, Bosnia and Herzegovina.
76. **Smajević, I.**, Hanjalić, K., 1993, Experience in using detonation waves for cleaning boilers heating surfaces, Posterpresentation, 25. Kraftwerkstechnisches Kolloquium, 19/20. Oktober 1993, Dresden, BR Deutschland.
77. **Smajević, I.**, Hanjalić, K., 1992, A computational model of an aerodynamically-valved Helm-holtz type pulse combustor, 2nd International Forum on Expert Systems and Computer Simulation in Energy Engineering, March 17-21, 1992, Erlangen, BR Deutschland.

78. **Smajević, I.**, Hanjalić, K., 1991, Pulzirajuće sagorijevanje - laboratorijsko istraživanje i analiza mogućnosti primjene na kotlovima velike snage, Zbornik radova, Deveta konferencija o termoelektranama Jugoslavije, Novi Sad, 1991.
79. Hanjalić, K., **Smajević, I.**, 1991, Laboratory investigation and full-scale experience on detonation wave technique for on-load cleaning of gas-side boiler heating surfaces, Proc. 2nd European Conf. on Industrial Furnaces and Boilers, April 2-5, 1991, Vilamoura, Portugal.
80. **Smajević, I.**, Hanjalić, K., 1990, Some results of experimental investigation of LPG pulse combustion, Proc. Int. Conf. on Fossil Fuels Modern Combustion Technogies, Prague, Czechoslovakia, 1990.
81. **Smajević, I.**, Hanjalić, K., 1990, Pulzirajuće sagorijevanje tečnog naftnog plina, Zbornik radova, Osmi jugoslovenski simpozijum termotehničara, YUTERM 90, Neum: 503-510.
82. **Smajević, I.**, Hanjalić, K., 1998, Novija iskustva u čišćenju kotlovskih ogrijevnih površina detonaciono-impulsnim postupkom, Zbornik radova, Osma konferencija o termoelektranama Jugoslavije, Opatija, 1988.
83. **Smajević, I.**, Šabanović, E., 1988, Primjer pogonskog ispitivanja kotla velike snage: motiv, metod i rezultati, Zbornik radova, Osma konferencija o ternoelektranama Jugoslavije, Opatija, 1988.
84. **Smajević, I.**, Hanjalić, K., 1985, Neka iskustva u primjeni detonaciono-impulsnog postupka na čišćenje kotlovskih ogrijevnih površina u Termoelektrani Kakanj, Zbornik radova, Sedma konferencija o termoelektranama Jugoslavije, Ohrid, 1985.

V.2. Zbornici domaćih konferencija (Domestic conference proceedings)

1. Hodžić, N., **Smajević, I.**, Hanjalić, K., 2015, Laboratorijsko istraživanje performansi pulzirajućeg gorionika: prijenos toplote u pulzirajućem toku dimnih plinova, 12. BiH Komitet CIGRÉ, 04.-08. soktobar 2015., Neum, Bosna i Hercegovina.
2. **Smajević, I.,** 2013, Energetska efikasnost i pogonska fleksibilnost termoelektrana: moguća poboljšanja, 11. BiH Komitet CIGRÉ, 15.-19. septembar 2013., Neum, Bosna i Hercegovina.
3. Kazagić A., **Smajević I.**, Karabegović M., 2013, Optimiziranje dizajna novog bloka 8 TE Kakanj bazirano na ispitivanju sagorijevanja projektnog uglja u laboratorijskim i pogonskim uslovima, 11. BiH Komitet CIGRÉ, 15.-19. septembar 2013., Neum, Bosna i Hercegovina.
4. Hodžić N., Kazagić A., **Smajević I.**, 2013, Izbor održive tehnologije sagorijevanja ugljeva Srednjebosanskog bazena podržan laboratorijskim istraživanjima, 11. BiH Komitet CIGRÉ, 15.-19. septembar 2013., Neum, Bosna i Hercegovina.
5. Bečić, K., **Smajević, I.**, 2013, Potrebne karakteristike novih održivih termoelektrana na ugalj u Bosni i Hercegovini, 11. BiH Komitet CIGRÉ, 15.-19. septembar 2013., Neum, Bosna i Hercegovina.
6. Selimović, S., **Smajević I.**, Goletić, Š., Duraković, J., 2013, Primjena modela disperzije polutanata emitovanih iz tačkastog izvora emisije sa validacijom rezultata putem sistema okolinskog monitoringa, 11. BiH Komitet CIGRÉ, 15.-19. septembar 2013., Neum, Bosna i Hercegovina. *(rad prihvaćen za štampu u časopisu Bosanskohercegovačka elektrotehnika)*
7. **Smajević, I.**, Kazagić, A., 2007, Mogućnosti kosagorijevanja domaćih ugljeva i biomase u funkciji poboljšanja okolinskih perfomansi JP EP BiH d.d. Sarajevo, 8. BiH Komitet CIGRÉ, 21.-25. Oktobar 2007., Neum, BiH. Knjiga II: 155-164.
8. Kazagić, A., **Smajević, I.**, 2007, Istraživanje emisija NOx, SO2 i CO2 kod sagorijevanja bosanskohercegovačkih ugljeva, 8. BiH Komitet CIGRÉ, 21.-25. oktobar 2007., Neum, BiH. Knjiga II: 33-41.

9. Džafo, H., **Smajević, I.**, 2007, Emisija i uravnoteženi razvoj kao potencijalno područje poboljšanja konkurentne sposobnosti elektroprivredne djelatnosti u BiH, 8. BiH Komitet CIGRÉ, 21.-25. oktobar 2007., Neum, BiH.
10. Selimović, S., Imamović, M., **Smajević, I.**, 2001, Ekološki monitoring – alat za praćenje kvaliteta tehnološkog procesa i zaštitu okoline, 5. BiH Komitet CIGRÉ (STK 37), 23.-27. septembar 2001., Neum, BiH.
11. Bečić, K., **Smajević, I.**, Beganović, Š.: Iskustva u primjeni Taprogge uređaja na čišćenje kondenzatorskih cijevi u Termoelektrani Kakanj, 5. BiH Komitet CIGRÉ (STK 23), 23.-27. septembar 2001., Neum, BiH.
12. Šabanović, E., **Smajević, I.**, 1990, Sadašnje stanje blokova 32 MW i blokova 110 MW u Termoelektrani Kakanj i mogućnosti produženja njihovog životnog vijeka, Druga konferencija o razvoju elektro industrije u Bosni i Hercegovini, Zbornik radova, 1990., Neum, BiH.

V.3. Prezentacije/ okrugli stolovi (Presentations/ round table discussions)

1. **Smajević I.**, 2016, Opstojnost naredne generacije BiH termoelektrana na ugalj i biomasu, Energetika BiH na raskršću: uloga znanja u odlučivanju i tranziciji, Kolokvij 2016, ANUBiH/ Sarajevo, Posebna izdanja, Knjiga CLXX/ Odjeljenje tehničkih nauka, OEEO, Knjiga 18, ISBN 978-9926-410-21-6, štampano 2007.: 77-80.
2. Music M., **Smajević I.**, Kazagic A., 2014, *Enlargement of cogeneration for more efficient and cleaner production from EPBiH thermal power plants: Case Study – heating of Zenica from Kakanj TPP,* IV International Conference ENERGA 2014, June 10-12, Tuzla, BiH.
3. **Smajevic I.**, Kazagic A., Music M., 2014, *Use of waste biomass in EPBiH thermal power plants for environmently friendly power production - activities and plans of EPBiH,* IV International Conference ENERGA 2014, June 10-12, Tuzla, BiH.
4. **Smajević, I.**, 2014, Motives, Needs and perspectives of Biomass Application in LCP, Adria Section of Combustion Institute-ASCI Round Table, 16 April 2014, Mašinski fakultet Sarajevo, BiH.
5. **Smajević, I.**, 2013, Čiste tehnologije iskorištavanja uglja – najnovija dostignuća i perspective, III međunarodna konferencija Energa, 4.-6. juni 2013., Tuzla, BiH.
6. **Smajevic I.**, Kazagic A., Hodžić, N., 2012, Co-firing Tests of Bosnian Coal with Woody Biomass in Laboratory and on 110 MWe Power Station, Round Table: Best Available Techniques (BAT) for Large Combustion Plants (LCP) in Western Balkan Countries – Legal, Technical and Economic Aspects, 7-9 June 2012, Tuzla, Bosnia and Herzegovina.
7. **Smajević, I.**, 2008, Termoenergetski potencijal Bosne i Hercegovine, Simpozij o energetici sa međunarodnim učešćem: Aktuelni tehnološki problemi u energetici BiH - mogućnosti i prilika za sopstveni naučnoistraživački doprinos, MF Sarajevo (povodom 50 godina), 23. oktobar 2008., Sarajevo, BiH.
8. **Smajević, I.**, 2005, Participation to the Workshop on Cleaner Fossil Fuel Power Generation, JRC – Institute for Energy, November 10-11, 2005, Petten/ Nederland.
9. **Smajević, I.**, 2004, Modernizacija termoenergetskih blokova instaliranih u BiH, Evropska konferencija o prirodnim građevinskim materijalima i uglju: Nove perspektive, Tematska oblast: Restrukturiranje i modernizacija energetskog sektora, 20.-21. maj 2004. Sarajevo, BiH.
10. **Smajević, I.**, 2004, Kako unaprijediti konkurentnost BiH!? Područja i faktori naše posebne konkurentne prednosti: gdje su naše najveće šanse!?, 7. konferencija Međunarodnog poslovnog foruma Perspektive, 06.-07. maj, Tuzla, BiH.
11. **Smajević, I.**, Hodžić, N., 2002, Uloga i perspektiva uglja u proizvodnji električne energije u BiH, Međunarodni naučno-stručni skup Stanje i perspektive razvoja rudnika uglja u Bosni i Hercegovini

(povodom 100 godina RMU Kakanj i 25 godina Mašinskog fakulteta Zenica), 26.-27. septembar 2002., Kakanj, BiH.

12. **Smajević, I.**, Hanjalić, K., 1990, Some new results of experimental investigation of LPG pulse combustion, Meeting on industrial co-operation for air pollution control technology, UNDP/ECE Project RER/87/010, Dubrovnik, Croatia.

V.4. Predavanja po pozivu (Invited lectures)

1. **Smajević, I.**, 2012, Trendovi u tehnologiji i opremi za termoelektrane visoke energetske efikasnosti, Seminar za uposlenike Koncerna Elektroprivreda BiH (180 min): Energetska efikasnost procesa i postrojenja u proizvodnji električne i toplinske energije, Edukacioni centar JP Elektroprivreda BiH dd Sarajevo, 11. decembar 2012., Radakovo/ Zenica, BiH.
2. **Smajević, I.**, Hanjalić, K., 2005, Detonation Soot Blower, Part II: Full-scale Experience, Editorial for discussion, Public Power Corporation in Greece, TPP Kardia (4x300 MW), October 31, 2005, Ptolemaida, Greece.
3. Hanjalić, K., **Smajević, I.**, 2005, Detonation Soot Blower, Part I: Experimental Research and Results, Editorial for discussion, Public Power Corporation in Greece, TPP Kardia (4x300 MW), October 31, 2005, Ptolemaida, Greece.
4. **Smajević, I.**, Hanjalić, K., 2002, Detonation-Wave Technique for Foulant and Scale Removal, Part II: Experience in TPP Kakanj, Editorial for discussion, Pratt & Whitney, Seattle Aerosciences Center, June 24-26, 2002, Seattle, Washington State, USA.
5. Hanjalić, K., **Smajević, I.**, 2002, Detonation-Wave Technique for Foulant and Scale Removal, Part I: The rationale, Editorial for discussion, Pratt & Whitney, Seattle Aerosciences Center, June 24-26, 2002, Seattle, Washington State, USA.
6. **Smajević, I.**, 1994, Pumps, Fittings, Heat Exchangers and Fluidized Solid Technique in the Seep Water Evaporation Plant, Lectures and Training to the Engineers of the Fa. TAKUMA, Japan, May 24-June 17, 1994, In Frame of ZVSMM, Schwabach, FR Germany.
7. **Smajević, I.**, 1993, Big Salt Particles inside of IIb Stage placed in the Seep Water Evaporation Plant; Mode of the Forming and Possibility to stop this Process, Editorial for discussion, Zentrale der Technik, ZVSMM, December 13, 1993, Schwabach, FR Germany.
8. **Smajević, I.**, 1993, Possibilites of Improvement of Working Conditions of IIb Stage placed in ZVSSM Evaporation Plant, Invited lecture, Lehrstuhl fuer Apparattechnik und Chemiemaschinen-bau, Unversitaet Erlangen-Nurnberg, September 13, 1993, Erlangen, FR Germany.
9. **Smajević, I.**, 1990, Operatopnal Experiences with Fouling and On-Load Cleaning of Convective Heating Surfaces of Steam Boilers, Invited lecture, Mechanical Engineering Faculty, University Bratislava, Slovak Republic.

VI. Stručni radovi i projekti (Professional works and projects)

VI.1. Međunarodni stručni radovi i projekti (International professional works and projects)

Kandidat je učestvovao u izradi velikog broja projekata. Ovdje su navedeni samo najznačajniji među njima. Neki od urađenih projekata ovdje nisu navedeni, jer je njihovo navođenje limitirano poslovnom tajnom.

1. Rutz, D. (koordinator projekta), **Smajević, I.** et all, 2016-2018 (Smajević, I. do augusta 2017.), Support to the development of small, modular and renewable district heating & cooling grids for

communities in South-Eastern Europe, EU-Horizon 2020, Partners: Bosnia and Herzegovina, Croatia, Macedonia, Serbia, Slovenia, Austria, Germany, Denmark, Grant agreement number: 691679- CoolHeating, JP EPBiH d.d. Sarajevo (and Municipality of Visoko), Sarajevo, BiH.

2. Lekić, A. (koordinator projekta), Kulić, E., **Smajević, I.**, Džaferović, E., Bajramović, R., Begić, F., Delalić, N., 2004-2007, Advanced Decentralized Energy Generation Systems in Western Balkans (ADEG), SIXTH FRAMEWORK PROGRAMME - FP6, Međunarodni (više evropskih država) naučno-istraživački projekat finansiran sredstvima EU, **Smajević, I**., voditelj potprojekta Biomasa, Mašinski fakultet Sarajevo, BiH.
3. **Smajević, I.** (voditelj projekta/ glavni istraživač), 1998-2002, Obnova i opremanje laboratorije za toplotne turbomašine na MF Sarajevo, Projekat obnove Mašinskog fakulteta Sarajevo nakon agresije na BiH, podržan sredstvima Njemačke vlade i u saradnji sa Friedrich-Alexander Universitaet Erlangen-Nuernberg, Završni izvještaj 2002.g, Mašinski fakultet Sarajevo, BiH.
4. **Smajević, I.** (voditelj projekta/ glavni istraživač), 1998-2002, Istraživanje pulzirajućeg sagorijevanja i obnova postojeće laboratorije, Projekat obnove Mašinskog fakulteta Sarajevo nakon agresije na BiH, podržan sredstvima Njemačke vlade i u saradnji sa Friedrich-Alexander Universitaet Erlangen-Nuernberg, Završni izvještaj 2002.g, Mašinski fakultet Sarajevo, BiH.
5. **Smajević, I.** (voditelj projekta/ glavni istraživač), 1998-2002, Istraživanje specifičnih problema sagorijevanja bosanskohercegovačkih ugljeva: osnivanje laboratorije, Projekat obnove Mašinskog fakulteta Sarajevo nakon agresije na BiH, podržan sredstvima Njemačke vlade i u saradnji sa Friedrich-Alexander Universitaet Erlangen-Nuernberg i TU Stuttgart, Završni izvještaj 2002.g, Mašinski fakultet Sarajevo, BiH.
6. **Smajević, I.** (voditelj projekta/ glavni istraživač), 1993-1995, Optimirung der Stufe IIb der Sickerwasser-Eindampfanlage, Zweckverband Sondermull- Entsorgung Mittelfranken, Project supported by ZVSMM, Final Report: 1995, Schwabach, BR Deeutschland.

VI.2. Domaći stručni radovi i projekti (Domestic professional works and projects)

Kandidat je učestvovao u izradi velikog broja projekata. Ovdje su navedeni samo najznačajniji među njima. Neki od urađenih projektata ovdje nisu navedeni, jer je njihovo navođenje limitirano poslovnom tajnom.

1. **Smajević, I.** (rukovodilac Stručnog tima), 2009-2011, Kosagorijevanje drvne biomase i mješavine uglja na bloku 5 u TE Kakanj, Pilot projekat, EPBiH/TE Kakanj, Sarajevo/Kakanj, BiH.
2. **Smajević, I.** (voditelj projekta), 2009-2010, Iskorištavanje i sagorijevanje biomase sa drugim gorivima u proizvodnji električne i toplotne energije u BiH, Finansijer: Ministarstvo civilnih poslova Bosne i Hercegovine (državni nivo) u okviru granta Programi za pripremu projekata i potencijalnih kandidata za sredstva iz fonda EU-FP7, Mašinski fakultet Sarajevo (putem konkursa), Odluka (Obavijest) Ministarstva br.: 10-33-154320-8-NN/08 od 26.01.2009, Sarajevo, BiH.
3. **Smajević I.** (voditelj projekta), 2008-2010. Redukcija emisije CO2 i poboljšanje domaće ekonomije konverzijom energetskih sistema u BiH na tehnologiju kosagorijevanja, finansijer: Ministarstvo obrazovanja i nauke Kantona Sarajevo (putem konkursa), Mašinski fakultet Sarajevo, BiH.
4. **Smajević I.** (voditelj projekta), 2006-2008, Istraživanje sagorijevanja domaćih ugljeva – doprinos izboru tehnologije sagorijevanja u budućim termoblokovima, finansijer: Federalno ministarstvo energije, rudarstva i industrije, Mašinski fakultet Sarajevo, BiH.
5. **Smajević, I.** (voditelj projekta), 2004-2006, Istraživanje specifičnih problema sagorijevanja domaćih ugljeva kao preduvjet primjene čistih tehnologija uglja (CCT - Clean Coal Technologies)/ razvoj odgovarajuće laboratorije na MF Sarajevo, finansijer: Kanton Sarajevo/ Ministarstvo

obrazovanja i nauke (putem konkursa) i privredna preduzeća iz BiH/ RMU Kakanj i TAT Energoinvest Sarajevo (naučno-stručna saradnja), Mašinski fakultet Sarajevo, BiH.

6. **Smajević, I.** (voditelj projekta), 2004-2005, Laboratorijsko i numeričko istraživanje mogućnosti aplikacije gorionika za pulzirajuće sagorijevanje na kotlovima velike snage, finansijer: Federacija BiH/ Ministarstvo za obrazovanje, nauku, kulturu i sport/šport (putem konkursa), Mašinski fakultet Sarajevo, BiH.
7. **Smajević, I.** (rukovodilac projekta na nivou JP Elektroprivreda BiH d.d.-Sarajevo), 2002-2005, POWER III/ Treći projekat rekonstrukcije elektroenergetskog sistema BiH, u saradnji sa međunarodnim finansijskim institucijama, vrijednost projekta preko 100 miliona KM, EP BiH, Sarajevo, BiH.
8. **Smajević, I.** (voditelj projekta), 2002-2003, Razvoj gorionika za pulzirajuće sagorijevanje: eksperimentalno istraživanje i matematski model, finansijer: Federacija BiH/ Ministarstvo za obrazovanje, nauku, kulturu i sport/šport (putem konkursa), Mašinski fakultet Sarajevo, BiH.
9. **Smajević, I.** (rukovodilac projekta na nivou TE Kakanj/ EP BiH), 1998-2002, POWER II/ Drugi projekat rekonstrukcije elektroenergetskog sistema BiH, u TE Kakanj: Poboljšanje okolinske održivosti pogona TE Kakanj, u saradnji sa međunarodnim finansijskim institucijama, vrijednost projekta više desetina miliona KM, EP BiH/ TE Kakanj, BiH.
10. Hanjalić, K. (koordinator/ urednik), 1986-1991, Razvoj i proizvodnja energetske, procesne i druge mašinske opreme visoke efikasnosti na bazi malootpadnih tehnologija sa novim vidovima konverzije energije, Društveni cilj VIII A, finansijer: SIZ za nauku BiH uz učešće privrede (instituti i fabrike Energoinvesta, Unioninvest, UNIS, Famos, Elektroprivreda BiH i drugi). U okviru toga: **Smajević, I.** (glavni istraživač na komponentnom projektu), 1986-1991, Pulzirajuće sagori-jevanje ugljenog praha-istraživanje i razvoj metoda i opreme, Mašinski fakultet Sarajevo, Institut za procesnu tehniku, energetiku i tehniku sredine-IPES, Projekat finansiran sredstvima Elektroprivrede BiH i SIZ-a za nauku BiH, Godišnji izvještaj za četvrtu istraživačku godinu - DC VIII/1991, december 1991, Institut za termo i nuklearnu tehniku (ITEN), Energoinvest, Sarajevo, BiH. *(u okviru ovog rada je kandidat I. Smajević uradio i jula 1991. odbranio dr tezu)*
11. Hanjalić, K., Stošić, N., **Smajević, I.**, 1986, Spriječavanje prljanja konvektivnog dijela kotla utilizatora postavljenog u Čeličani II RMK Zenica, finansijer: RMK Zenica, izvođač (izrada idejnog rješenja): Mašinski fakultet Sarajevo, BiH.
12. Hanjalić, K. (nosilac projekta), **Smajević, I.** (glavni istraživač),, 1982-1985, Razvoj metoda za sprječavanje formiranja i otklanjanje naslaga sa kotlovskih ogrijevnih površina impulsno-detonacionom tehnikom, finansijer: Javni fond za naučno-istraživački rad Republike BiH i Elektroprivreda BiH, izvođač: Mašinski fakultet Sarajevo, Institut za procesnu tehniku, energetiku i tehniku sredine-IPES, Sarajevo, BiH. *(u okviru ovog rada je kandidat I. Smajević uradio i decembra 1984, odbranio magistarsku tezu, M.Sc.; Rezultati ovog istraživanja su patentirani i u primjeni u pogonu TE Kakanj u periodu dužem od 20 godina su proizveli uštede od oko 60 miliona konvertibilnih maraka)*

VII. Strateški planovi značajni za BiH (Strategic plans important for BiH)

1. **Smajević, I.** (rukovodilac Ekspertne grupe), 2007-2009, *Strateški plan i program razvoja energetskog sektora Federacije BiH (291 str.)*, pokretač projekta: Vlada FBiH/ Federalno ministarstvo energije, rudarstva i industrije (FMERI). Dokument u formi Prijedloga Vlade FBiH/ FMERI *jednoglasno* usvojen u Parlamentu FBiH: u Predstavničkom domu 13.01.2009., u Dom naroda 19.03.2009. godine.

http://www.fbihvlada.gov.ba/bosanski/izdvajamo/SPP-sept-08-PRIJEDLOG.pdf

VIII. Patenti, Tehnička unaprijeđenja (Patents, Technical improvements)

1. **Smajević, I.**, Hanjalić, K., 1988, patent P1728/88, Uređaj za pouzdano pogonsko čišćenje ogrijevnih površina termoenergetskih i drugih kotlova velike snage pomoću detonacionih talasa, Jugoslovenski patentni zavod, Beograd, 1988. Metod ravijen i testiran u laboratoriji Mašinskog fakulteta u Sarajevu 1983-1986, instaliran i u pogonu (sa manjim prekidima) na dva kotla snage po 300 MWth u TE Kakanj, uz sve dozvole, u periodu dužem od dvije decenije, uz procijenjenu uštedu u proizvodnim troškovima u tom periodu od minimalno 30 miliona EUR (60 miliona KM). Citiran više desetina puta u US patents, Роспатент, kao i u drugim značajnim patentnim zavodima u svijetu. Interes za ovu tehnologiju pokazali su ALSTOM (Njemačka), Pratt & Witney i Diamond Power (SAD), Ansaldo (Italija), Elektroprivreda Tesalije i Makedonije u Grčkoj i drugi.
2. **Smajević, I.**, Hanjalić, K., 1988, patent P1756/88, Uređaj za odnošenje naslaga detonacionim talasima sa unutrašnjih površina reaktora za visokopritisnu gasifikaciju uglja, Jugoslovenski patentni zavod, Beograd, 1988., dopuna i adaptacija gore navedenog postupka za primjenu u reaktorima za gasifikaciju uglja.
3. **Smajević, I.**, Schoder, F., 1998, Wirbelschichtwärmeübertrager in der letzten Stufe einer Eindampfanlage-Teil 2: Salzkugelbildung im Umwälzkreislauf, Journal of Patent Associated Literature-JOPAL XIX/11, IPC CODE: C02F 001/04, PCT No.: 35: 1406-1411.
4. **Smajević, I.**, 1986, Tehničko unaprjeđenje u TE Kakanj: Ugradnja zatvarača na kanalima toplog zraka, ispred mlinova, na kotlovima snage 32 MW, EP BiH/ TE Kakanj, 1986., Kakanj, BiH.

IX. Mentor doktorskih i magistarskih disertacija (Supervision of PhDs and MScs)

IX.1. Mentor doktorskih disertacija (Supervision of PhDs)

1. Anes Kazagić: *Istraživanje sagorijevanja sprašenih bosanskohercegovačkih ugljeva usmjereno na izbor novih i poboljšanje postojećih tehnologija sagorijevanja u termoelektranama*, 08.05.2009., Univerzitet u Sarajevu, Mašinski fakultet, Sarajevo, BiH.
2. Nihad Hodžić: *Istraživanje kosagorijevanja uglja i biomase usmjereno na smanjenje emisija primarnim mjerama u ložištu*, 23.02.2016., Univerzitet u Sarajevu, Mašinski fakultet, Sarajevo, BiH.
3. Adnan Đugum*: *Numeričko istraživanje procesa stepenovanog sagorijevanja u energetskim kotlovima na sprašeni ugalj*, 12.03.2018., Univerzitet u Sarajevu, Mašinski fakultet, Sarajevo, BiH.
4. Semin Petrović**: *Istraživanje kosagorijevanja bosanskohercegovačkog uglja i energetskih usjeva,* Izrada disertacije odobrena na osnovu Izvještaja Komisije za ocjenu uslova Kandidata i podobnosti teme doktorske disertacije, koji je datiran sa 12.09.2011., Univerzitet u Sarajevu, Mašinski fakultet, Sarajevo, BiH.
5. Kemal Bečić **: *Itraživanje kosagorijevanja sprašenih bosanskohercegovačkih ugljeva i kanalizacionih muljeva*, Izrada disertacije odobrena na osnovu Izvještaja Komisije za ocjenu uslova Kandidata i podobnosti teme doktorske disertacije, koji je datiran sa 09.07.2014., Univerzitet u Sarajevu, Mašinski fakultet, Sarajevo, BiH.

* Ko-mentor; dr. Smajević nije učestvovao u odbrani rada, zbog odlaska u penziju nekoliko mjeseci ranije.

** Rad nije završen.

Dr. Smajević je kao predsjednik ili član komisije učestvovao u odbrani više drugih doktorskih radova, naprimjer na MF Sarajevo: Namir Neimarlija (2006.) i Dževad Bibić (2007.). Osim toga, rezultati istraživanja, koji su pod nadzorom dr. Smajevića uspostavljeni u laboratoriji MF Sarajevo su poslužili kao isključiva podloga za verifikaciju rezultata doktorskog rada Igora Bonefačića: *Analiza utjecaja oblika i veličine čestica biomase pri izgaranju*, 2012., Tehnički fakultet Sveučilišta u Rijeci, Hrvatska.

IX.2. Mentor magistarskih disertacija (Supervision of MScs)

1. Kasim Alajbegović: *Prilog istraživanju energijske efikasnosti grijenja individualnih stambenih objekata*, 11.12.2014., Mašinski fakultet Univerziteta u Zenici, Zenica, BiH.
2. Samir Selimović: *Primjena modela disperzije polutanata emitovanih iz tačkastog izvora sa validacijom rezultata putem okolinskog monitoringa*, 10.04.2013. Mašinski fakultet Univerziteta u Zenici, Zenica, BiH.
3. Nihad Hodžić: *Laboratorijsko istraživanje mogućnosti primjene gorionika za pulzirajuće sagorijevanje na kotlovima velike snage*, 26.07.2007., Univerzitet u Sarajevu, Mašinski fakultet, Sarajevo, BiH.
4. Anes Kazagić: *Istraživanje specifičnih problema sagorijevanja domaćih ugljeva*, 12.07.2006., Univerzitet u Sarajevu, Mašinski fakultet, Sarajevo, BiH.
5. Semin Petrović*: *Assessment of Laminar Flamelet Model for Partially Premixed Flames, MF Sarajevo-ETH Zürich*, 14.12.2002., Univerzitet u Sarajevu, Mašinski fakultet, Sarajevo, BiH.

* Rad odbranjen pred međunarodnom komisijom.

Dr. Smajević je kao predsjednik ili član komisije učestvovao u odbrani više drugih magistarskih radova (MSc), naprimjer na MF Sarajevo: Armin Husika (2013.), Muhamed Halilagić (2012.), Zinaida Dimitrijević (2010.).

Napomena: dr. Smajević je bio mentor više od 35 diplomskih i završnih radova na univerzitetima u Sarajevu i Zenici.

X. Javna promocija projekata od općeg značaja (Public promotion of the projects of common importance)

Projekat grijanja područja do/i Sarajeva iz TE Kakanj
https://vipromo.ba/prof-dr-smajevic-toplotnom-energijom-iz-te-kakanj-moglo-bi-se-grijati-i-sarajevo/
https://www.youtube.com/watch?v=Uf5C9l5p1ms
https://www.youtube.com/watch?v=gPtbS9gaI3o
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