

SELECTED PUBLICATIONS

Books:

1. **Petrovic, M.:** Flow Calculation in Multistage Axial Flow Turbines at Nominal Load and Part Load, in German, (Berechnung der Meridianstroemung in mehrstufigen Axialturbinen bei Nenn- und Teillastbetrieb), **VDI-Verlag GmbH, Düsseldorf**, 1995, 124 Seiten, ISBN 3-18-328007-8
2. Turbomachinery – Fluid Dynamic and Thermodynamic Aspects, (A chapter by **Petrovic, M.** and Riess, W.) VDI Berichte 1185, **VDI Verlag** 1995, ISBN 3-18-091185-9

International EU project (Horizon 2020)

1. Flexible Fossil Power Plants for the Future Energy Market through new and advanced Turbine Technologies, HORIZON 2020, 2016-2018, Grant No. 653941 (codeword: FLEXTURBINE)

International Journal Papers:

1. Banjac, M., Savanovic, T., Petkovic, D., Petrovic, M. V. "A Comprehensive Analytical Shock Loss Model for Axial Compressor Cascades." **Trans of the ASME. J. Turbomach.** 2022, 144(9): 091003. <https://doi.org/10.1115/1.4053852>
2. Petkovic, D., Banjac, M., Milic, S., **Petrovic, M. V.**, Wiedermann, A., Modeling the Transient Behavior of Gas Turbines." **Trans of the ASME. J. Turbomach.** 2020, 142(8): 081005. <https://doi.org/10.1115/1.4046451> , M21 (petogodišnji IF=2.866 za 2019.)
3. Banjac, M. **B.**, Đukanovic, D. R., **Petrovic, M. V.**, Techno-Economic Analysis of Gas Turbine-Based C.H.P. Plant Operation under a Feed-in Tariff System, *Thermal Science* 2020 Volume 24, Issue 6 Part B, Pages: 4103-4114, <https://doi.org/10.2298/TSCI200103150B>
4. Milic, S., **Petrovic, M.V.**, Banjac, M., Djukanovic, D., Nedeljkovic, S .M.: Analysis of Operation of the Condenser in a 120 MW Thermal Power Plant, **Thermal Science**, 2018 Vol. 22(1), Part B, Pages: 735-746 <https://doi.org/10.2298/TSCI170903242M> M22 (IF=1.541 za 2018)
5. **Petrovic, M.V.**, Abdel-Rahman, A., Wiedermann, A., 2016, A Quick Method for Full Flange-to-flange Industrial Gas Turbine Analysis Based on Through-flow Modelling, **Int Journal of Gas Turbine, Propulsion and Power Systems**, 8(1), pp. 9-18, ISSN 1882-5079 <http://www.gtsj.org/english/jgpp/v08n01tp02.pdf> M24
6. Banjac M., **Petrovic M.V.**, Wiedermann A., 2015, Secondary Flows, Endwall Effects, and Stall Detection in Axial Compressor Design. **Trans of the ASME, J. Turbomach.** 137(5), pp. 051004 (12 pages); ISSN 0889-504X, doi:10.1115/1.4028648 M23
7. Mohammed M.S., **Petrovic M.V.**, 2015, Thermoeconomic optimization of triple pressure HRSG operating parameters for combined cycle plants, **Thermal Science**, 19(2), pp. 447-460, ISSN 0354-9836, doi:10.2298/TSCI131124040M M22
8. Banjac, M., **Petrovic, M.V.**, Wiedermann, A., 2014, A New Loss And Deviation Model For Axial Compressor Inlet Guide Vanes, **Trans of the ASME. J. Turbomach.**, 136(7), pp. 071011(1-13); doi:10.1115/1.4025956 M22
9. **Petrovic, M.V.**, Wiedermann, A., 2013, Through-Flow Analysis of Air-Cooled Gas Turbines, **Trans of the ASME. J Turbomach.**, 135(6). pp. 061019 (1-8), ISSN 0889-504X, doi:10.1115/1.4023463 M22
10. Tucakovic, D., Stupar, G., Zivanovic, T., **Petrovic, M.**, Belosevic, S., 2013, Possibilities for reconstruction of existing steam boilers for the purpose of using exhaust gases from 14 MW or 17 MW gas turbine, **Applied Thermal Engineering**, 56(1-2), pp. 83-90, ISSN 1359-4311, <http://dx.doi.org/10.1016/j.applthermaleng.2013.03.028>, M21a
11. Alus, M., **Petrovic, M.V.**, 2012, Optimization of the triple-pressure combined cycle power plant, **Thermal Science**, 16(3), pp. 901-914, ISSN 0354-9836, DOI: 10.2298/TSCI120517137A M23
12. **Petrovic, M.V.**, Banjac, M.B., Wiedermann, A., 2011, Entwicklung eines neuen Meridionalverfahrens für mehrstufige kompakte Axialverdichter und Validierung durch Experimente und CFD-Berechnungen, **Forschung Im Ingenieurwesen**, 75, pp. 45–60 Springer-Verlag, ISSN 0015-7899, DOI 10.1007/s10010-011-0136-5 M23
13. **Petrovic, M.V.**, Wiedermann, A., Banjac, M.B., 2010, Development and validation of a new universal through flow method for axial compressors, **Proc. IMechE Part A: J. Power and Energy**, 224(6) pp. 869-880, ISSN 0957-6509, DOI 10.1243/09576509JPE991 M22
14. **Petrovic, M.V.**, Dulikravich, G.S. and Martin, T. J., 2001, Optimization of Multistage Turbines Using a Throughflow Code, **Proc. IMechE Part A: J. Power and Energy**, 215(5), pp. 559-569, ISSN 0957-6509 M23
15. **Petrovic, M.V.**, Dulikravich, G.S. and Martin, T. J., 2000, Maximizing Multistage Turbine Efficiency by Optimizing Hub and Shroud Shapes and Inlet and Exit Conditions of Each Blade Row, **Int. J. of Turbo & Jet-Engines**, 17(4) pp. 267-278, ISSN 0334-0082 DOI: <https://doi.org/10.1515/TJJ.2000.17.4.267> M22
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17. **Petrovic, M.**, Gehring, S., Riess, W., 2001, 2D-Verfahren zur Auslegung, Optimierung und Kennfeldberechnung von Gas- und Dampfturbinen, **VGB PowerTech**, 81(1), p. 52-57, ISSN 1435-3199, M24

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1. Petrovic, M.V., Wiedermann, A., Banjac, M., Milic, S., Petkovic, D., Madzar, T., 2022, New Method for Cycle Performance Prediction Based on Detailed Compressor And Gas Turbine Flow Calculations, paper No. GT2022-82229, ASME Turbo 2022, June 13–17, 2022, Rotterdam, Netherlands
2. Petkovic, D., Banjac, M., Milic, S., Madzar, T., Petrovic, M.V., Wiedermann, A., 2022. Simulation of the Overall Transient Operation of Gas Turbines, paper No. GT2022-82250, ASME Turbo 2022, June 13–17, 2022, Rotterdam, Netherlands
3. Banjac, M., Savanovic, T., Petkovic, D., **Petrovic, M.**, A Comprehensive Analytical Shock Loss Model for Axial Compressor Cascades, **ASME Turbo 2021**, Virtual, Online, June 7-11, Paper No. GT2021-58580, 2021.
4. Petrovic, M.V., Wiedermann, A., Petkovic, D., Banjac, M., Milic, S., Simulation of Transient and Part-Load Operation of Gas Turbines. International gas Turbine Congress **IGTC 2019**., Tokyo, 17-22, Nov. 2019.
5. Petkovic, D., Banjac, M., Milic, S., Petrovic, M. V., Wiedermann, A. Modelling the Transient Behaviour of Gas Turbines. Proceedings of the **ASME Turbo 2019: Turbomachinery Technical Conference and Exposition**. Volume 2A: Turbomachinery. Phoenix, Arizona, USA June 17–21, 2019. V02AT45A014. ASME. <https://doi.org/10.1115/GT2019-91008>
6. Petrovic, M. V., Wiedermann, A., Banjac, M., Petkovic, Dj., Milic, S., Software Tool for Simulation and Analysis of Gas Turbine Engine during Transient Operation, Turbomachines 2018, Prague, Czech Republic, September 25-26, 2018 <https://turbo2018.asiplzen.cz/abstracts-proceedings/>
7. Banjac, M., **Petrovic, M. V.**, Development of Method and Computer Program for Multistage Axial Compressor Design: Part I - Mean Line Design And Example Cases, The International Gas Turbine and Aeroengine Congress **ASME Turbo 2018**, Oslo, Norway, June 11–15, 2018, Paper No. GT2018-75410, doi: 10.1115/GT2018-75410
8. Banjac, M., **Petrovic, M. V.**, Development of Method and Computer Program for Multistage Axial Compressor Design: Part II - Two-Dimensional Design And Validation Using CFD, The International Gas Turbine and Aeroengine Congress **ASME Turbo 2018**, Oslo, Norway, June 11–15, 2018, Paper No. GT2018-75412, DOI: 10.1115/GT2018-75412
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10. **Petrovic, M. V.**, Wiedermann, A., Nedeljkovic, S. M., Banjac, M. 2017, Part Load Behavior of the LP Part on an Industrial Gas Turbine, **ASME Turbo 2017: Turbomachinery Technical Conference and Exposition**, Charlotte, North Carolina, USA, June 26–30, Volume 2A: Turbomachinery, ASME-Paper No. GT2017-64778, pp. V02AT40A033; 9 pages, ISBN: 978-0-7918-5078-7, doi:10.1115/GT2017-64778
11. **Petrovic, M.V.**: Optimization of Multistage Turbomachines, International IOSO conference, Moscow, June 11-15, 2016.
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13. Banjac, M., **Petrovic, M. V.**, Wiedermann, A.: Multistage Axial Compressor Flow Field Predictions Using CFD and Through-Flow Calculations, **ASME Turbo 2016: Turbomachinery Technical Conference and Exposition**, Seoul, South Korea, June 13–17, 2016, *Proc. ASME*. 49712; Volume 2C: V02CT39A047, Paper GT2016-57632 doi: 10.1115/GT2016-57632
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16. **Petrovic, M.V.**, Aerodynamic Design Of Air-Cooled Gas Turbines, 1st International Symposium on Machines, Mechanics and Mechatronics - Current Trend, July 1-2, 2014, **IFTOMM** (International Federation for the Promotion of Mechanism and Machine Science), ISBN 978-86-7083-830-7, <http://smmm2014.mas.bg.ac.rs/>
17. Banjac, M.B, **Petrovic, M.V.**, Wiedermann, A., Secondary Flows, Endwall Effects and Stall Detection In Axial Compressor Design, **ASME Turbo 2014**, The International Gas Turbine and Aeroengine Congress, Duesseldorf, Germany, June 16–20, 2014 *Proc. ASME*. 45608; Volume 2A: Turbomachinery, pp. V02AT37A005, GT2014-25115 doi: 10.1115/GT2014-25115, ISBN: 978-0-7918-4560-8

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19. **Petrovic, M.V.**, Wiedermann, A., Through-Flow Analysis of Air-Cooled Gas Turbines, Paper No. GT2012-69854, **ASME Turbo Expo 2012**: The International Gas Turbine and Aeroengine Congress, Copenhagen, Denmark, June 11–15, 2012, Volume 8: Turbomachinery, Parts A, B, and C pp. 2363-2372; doi:10.1115/GT2012-69854, ISBN: 978-0-7918-4474-8
20. **Petrovic, M.V.**, Wiedermann, A., Banjac, M.B., Development and Validation of a New Universal Through Flow Method for Axial Compressors, ASME Paper GT2009-59938 **ASME Turbo Expo 2009**: The International Gas Turbine and Aeroengine Congress, June 8–12, 2009, Orlando, Florida, USA, Volume 7: Turbomachinery, Parts A and B, pp. 579-588, doi:10.1115/GT2009-59938, ISBN: 978-0-7918-4888-3, eISBN: 978-0-7918-3849-5
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22. **Petrovic, M.V.**, Dulikravich, G. S., and Martin, T. J.: Maximizing Multistage Gas Turbine Efficiency Over a Range of Operating Conditions, Proceedings of 10th Thermal & Fluids Analysis Workshop (**TFAWS '99**), (editor: L. W. Griffin), NASA Marshall Space Flight Center, Huntsville, Alabama, USA, Sept. 13-17, 1999
23. **Petrovic, M.V.**, Dulikravich, G. S. and Martin, T. J.: Maximizing Multistage Turbine Efficiency by Optimizing Hub and Shroud Shapes and Inlet and Exit Conditions of Each Blade Row, ASME paper 99-GT-071, **ASME Turbo 1999**, The International Gas Turbine and Aeroengine Congress, Indianapolis, Indiana, USA, June 7-10, 1999.
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26. **Petrović, M.V.**, Riess, W.: Through-Flow Calculation in Axial Flow Turbines at Part and Low Load, **First European Conference on Turbomachinery**, Erlangen, March 1-3, 1995

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1. Petrović, M.V., Milić, S., Banjac, M.B., Petković, Đ, Madžar, T., Petrović, L., Vujičić, B., Novaković, Ž., Rešenje modernizacije parnog turbopostrojenja snage 300 MW, (Invited lecture) Konferencija Power Plants 2021, Beograd 17.-18. Nov. 2021.
2. Milić, S., Petrović, M.V., Banjac, M.B., Petković, Đ., Đukanović, D., Jankov, N., Despotović, V., Ispitivanje i analiza rada parnog turbopostrojenja snage 210 MW, (Invited lecture) Konferencija Power Plants 2021, Beograd 17.-18. Nov. 2021.
3. Petrovic, M.V., Wiedermann, A., Flexible Fossil Power Plants for the Future Energy Market Through New and Advanced Turbine Technologies – Results of European Research Project, **Elektrane 2018**, Zlatibor 05-08. Nov. 2018. (uvodno predavanje) <https://e2018.drustvo-termicara.com/content/files/f982e26.pdf>
4. Petkovic, D., Banjac, M., Milić, S., Petrović, M.V., Modeliranje prelaznih režima rada toplotnih turbina, **Elektrane 2018**, Zlatibor 05-08. Nov. 2018. <https://e2018.drustvo-termicara.com/content/files/f982e26.pdf>
5. Popović, M.Đ, Banjac, M.B., **Petrović, M.V.**: Sistem za proračun ponašanja parnih turbina na parcijalnim opterećenjima, **Elektrane 2016**, Zlatibor 23-26. Nov. 2016. poster
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8. **Petrović, M.V.**, Milić, S., Banjac, M., Nedeljković, S., Đukanović, D., Ranković, M., Stevanović, M., Novaković, G.: Ispitivanje parnog turbopostrojenja TE Morava 120 MW **Elektrane 2016**, Zlatibor 23-26. Nov. 2016. , Uvodno predavanje.
9. **Petrović, M.V.**, Despić, M., Milić, S., Banjac, M., Đukanović, M., Nedeljković, S., Papić, B., Maksimović, S., Konečni, G., Lakić, S., Stevanović, S., Development of a System for On-Line Monitoring and Operation Analysis of the Steam Turbine Plant in T.P.P. Novi Sad, Invited lecture, Full Papers Proceeding of International Conference "**Power Plants 2014**", 28-31. October 2014, Zlatibor Serbia, ISBN 978-86-7877-024-1, pp. 256 - 264

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12. **Petrović, M.V.**, Termoenergetske tehnologije – Stanje i pravci razvoja i primene, **Elektrane 2010**, Vrnjačka Banja, 26-29.10., 2010.
13. **Petrovic, M.V.**, Alus, M., Optimization of parameters for heat recovery steam generator (HRSG) in combined cycle plants, **Elektrane 2010**, Vrnjačka Banja, 26-29.10., 2010.
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16. Tucaković, D., Živanović, T., **Petrović, M.**, Ivanović, V., Technical solution for gas turbine exhaust gas use in the existing steam boilers in MVC Kikinda, IEEP 2008, Regional Conference: Industrial Energy and Environmental Protection in Southeast Europe 24-28 June 2008, Serbia, Zlatibor
17. Rosić, B., Urošević, D., Mačić, M., **Petrović, M.**: Razvoj softverskog paketa za proračun toplotnih šema parnih turbopostrojenja. Simpozijum **ELEKTRANE 2004**, Vrnjačka Banja, 2-5 novembar 2004.
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19. **Petrovic, M.**: Design and Optimization of Axial Flow Gas Turbines, **Classics and Fashion in Fluid Machinery**, Belgrade, October 18-20, 2002
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1. Banjac, M., Đukanović, D., Milić, S., Nedeljković, S., **Petrović, M.** Mogućnosti primene kombinovane proizvodnje električne energije i toplote u javnim objektima posebne namene. **KGH**, ISSN 0350-1426 1/2015.
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