

Dio naučne monografije izdate od strane renomiranog međunarodnog izdavača / Part of a scientific monograph published by a famous international publisher

1. Grubiša L, **Bajić D.**, Vuherer T. (2018) *Influence of Activating Flux on the Mechanical Properties of the Plasma Welded Joint of Austenitic Steel*, Procedia Structural Integrity, Volume 13, pp. 430-437, Publishing Elsevier, Edited by A. Sedmak, Z. Radaković, M. Rakin, ISSN: 2452-3216, doi:10.1016/j.prostr.2018.12.072.

Autorska naučna monografija čiji su izdavači državni univerziteti / Authors' scientific monograph published by state universities

2. Karabegović I., Pašić S., **Bajić D.**, i dr. (2013) *New Technologies in Welding Processes - Development and Application*, Monography, Faculty of Mechanical Engineering Mostar (BiH), Faculty of Mechanical Engineering Podgorica, University of Montenegro, ISBN 978-9958-058-00-4, COBISS.BH-ID 20775942.
3. Milosavljević A., Petronic S., Polić-Radovanović S., **Bajić D.**, Dinulović M, Bekrić D. (2012) *Welding and Surface Treatments of Heatresistant Materials*, Monography, Faculty of Mechanical Engineering, University of Belgrade, 2012, Page(s) 35-70, ISBN 978-86-7083-768-3, COBISS.SR-ID 195568652

Radovi objavljeni u internacionalnim časopisima u bazama SCI, SCIE, SSCI, A&HCI, SCOPUS / Papers published in international journals in databases SCI, SCIE, SSCI, A&HCI, SCOPUS

1. Veljić D., Radović N., Rakin M., Sedmak A., Međo B., Mrdak M., **Bajić D.** (2022) *Influence of Temperature and Plastic Deformation on AA2024 T3 Friction Stir Welding Joint Microstructure*, THERMAL SCIENCE: ISSN 2334-7163 (ISSN 0354-9836 (printed edition)), online, doi: 10.2298/TSCI220621162V.
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4. Mumović M., Šibalić N., **Bajić D.**, Vukčević M. (2021) *Numerical analysis of welding sequence influencing the quality of an AA6060-T4 alloy lap joint*, Structural Integrity and Life, ISSN 1451-3749, Vol.21, No.2, pp. 123–130.
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16. Lukyanenko A.O., Labur T.M., Poklyatsky A.G., Kuleshov A.G., **Baich D.** (2017) *Sanitary-Hygienic characteristic of Nonconsumable Electrode Argon-Arc Welding of 1201 and 1460 Aluminium Alloys*, The Paton Welding Journal: ISSN 0957-798X, No.10, pp. 43-46. doi: 10.15407/tpwj2017.10.07.
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1. Savitskyi O.M., Savitskyi M.M., Bajić D. (2022) *Influence of Chemical Composition on Structural Transformations in Carbon Steels and their Welding Joints*, Welding & Welded Structures (Zavarivanje i zavarene konstrukcije), vol. 67, №4, str. 147-155, ISSN 0354-7965, doi: 10.5937/zzk2204147S.
2. Šibalić N., Bajić D., Mumović M. (2022) *Study of Welding of Butt and Corner Joints Using the FSW Method*, Welding & Welded Structures (Zavarivanje i zavarene konstrukcije), vol. 67, №4, str. 157-165, ISSN 0354-7965, doi: 10.5937/zzk2204157Q.
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8. Vuherer T., Zrilić M., Samardžić I., **Bajić D.**, Manjgo M., (2016) *Suitability of Residual Stress Measurement Methods in Practice*, Varilna tehnika, vol. 64, br. 2, str. 9-14, ISSN 2463-9214 DOI: 10.13140/RG.2.2.17112.29445 .
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Radovi objavljeni na međunarodnim kongresima, simpozijumima i seminarima / Papers published at international congresses, symposia and seminars

1. Savitskyi O.M., Savitskyi M.M., Bajić D., Vashchenko V.N. (2022) *Thermal barrier in welded joints of carbon steels*, 32. Savetovanje sa međunarodnim učešćem, ZAVARIVANJE 2022, 12 - 15. oktobar 2022. Hotel "Omorika", planina Tara, Serbia.
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12. Fatigue behaviour of single pass joints made by ATIG welding, International Project, University of Maribor, Faculty of Mechanical Engineering, Maribor (Slovenia), 2012-2013.
13. Development and application of intelligent systems in welding processes, International Project, Faculty of Mechanical Engineering University "Džemal Bijedić", Mostar (Bosnia and Herzegovina), 2012-2014.
14. Blečić Ž., **Bajić D.**, i dr., Istraživanja fenomena međudejstva faza metal-troska i njihov uticaj na zavarljivost raznorodnih čelika (Research on the phenomena of interaction between metal-slag phases and their influence on the weldability of various types of steel), Financed from side Ministry of Education and Science of Montenegro, Podgorica, 2008.
15. Ž. Blečić, D. Blečić, **D. Bajić**, K. Kovačević i dr., Modeliranje procesa dobijanja i kontrole obloženih elektroda za zavarivanje (Modeling processes of getting and controle of marked electrodes for welding), Financed from side Ministry of Education and Science of Montenegro, Podgorica, 2005.
16. CEPUS III Projekat: CIII-BG-0613-04-1415, „NANOTECHNOLOGIES, MATERIALS AND NEW PRODUCTION TECHNOLOGIES - UNIVERSITY COOPERATION IN RESEARCH AND IMPLEMENTATION OF JOINT PROGRAMS OF STUDY BY STIMULATING ACADEMIC MOBILITY“

Projekti u privredi / Projects in the economy

1. Expert crack control services at the lower leading hoop of the conduction apparatus for the needs of Hydro-power plant "Piva", Montenegro Elektroprivreda Crne Gore, August 2019.
2. Making of welding technology when constructing a new pedestrian bridge at the site of the existing bridge Potkrajci – Njegnjevo, Intermost doo – Podgorica, August 2018.
3. Examining the state of materials a pipe branches of №3 pipe in Hydro-power plant "Perućica", Montenegro Elektroprivreda Crne Gore, August 2018.
4. Development of repair welding technology supply pipelines aggregates A1, A2 and A3 in Hydro-power plant "Piva", Montenegro Elektroprivreda Crne Gore, April 2017.
5. Development of welding technology and production of pipelines of the cooling water system - Phase 5 in Hydro-power plant "Piva", Montenegro Elektroprivreda Crne Gore, September 2017.
6. Examining the state of materials a pipe branches 7B, 8A and 8B №3 pipe in Hydro-power plant "Perućica", Montenegro Elektroprivreda Crne Gore, August 2017.
7. Structural improvements of the beam support the hand chain hoists at the location of valve chambers

"Krupac" in order to increase its allowed maximum load of 100 kN, in Hydro-power plant "Perućica", Montenegro Elektroprivreda Crne Gore, April 2017. Project Manager.

8. Examining the state of material a pipe branches 6B and 7A №3 pipe in Hydro-power plant "Perućica", Montenegro Elektroprivreda Crne Gore, August 2014.
9. Izrada projekta sanacije oslonaca cjevovoda br.3 od temelja T9 do radnih mašina, Elektroprivreda Crne Gore (HE "Perućica"), 2014. godine.
10. Examining state of material a pipe branches 6A №3 pipe Hydro-power plant "Perućica", Montenegro Elektroprivreda Crne Gore, August 2013.
11. Examining the state of material a pipe branches 6A №3 pipe during work, Montenegro Elektroprivreda Crne Gore (Hydro-power plant "Perućica"), August 2012. – February 2013.
12. Examining state of material a pipe branches 6A №3 pipe Hydro-power plant "Perućica", Montenegro Elektroprivreda Crne Gore, August 2012.
13. Examining state of material a pipe branches 6A №3 pipe Hydro-power plant "Perućica", Montenegro Elektroprivreda Crne Gore, August 2011.
14. The program continuous monitoring condition metals for №3 pipe Hydro-power plant "Perućica", Montenegro Elektroprivreda Crne Gore, May 2011.
15. Ekspertiza poliesterskih rezervoara zapremine 10m³ prema zahtjevu Privrednog suda u Podgorici (P.br. 757/09), Centar za saobraćajno mašinska vještačenja Mašinskog fakulteta u Podgorici, maj 2011. godine.
16. Izrada tehnologije zavarivanja cjevovoda No50 (Np40) za vodovod Vežanja za potrebe Hidroelektrane Bajina Bašta, "Drimsko-Limske hidroelektrane" d.o.o. Bajina Bašta, avgust 2011.
17. Izrada tehnologije zavarivanja cjevovoda No100 (Np81) za uduvavanje vazduha u prostor radnog kola agregata P1 i P2 Hidroelektrane Bajina Bašta, "Drimsko-Limske hidroelektrane" d.o.o. Bajina Bašta, avgust 2010.
18. Stalni stručni nadzor nad izvođenjem radova na sanaciji vrelovodnog kotla tip O-500, proizvođač "Đuro Đaković" u toplani Univerziteta Crne Gore u Podgorici, 2009. godina.
19. Ekspertska analiza u vezi akcidenta u KAP-u od 04.11.2004. godine u fabrici Glinice – Autoklav – RA15", novembar 2004.godine, Podgorica.
20. Razrada tehnologije zavarivanja i sanacija "uboda" na komorama kotlovskog postrojenja TE-Gacko 300MW, Gacko-Republika Srpska (BiH), jul 2002.godine.

Stručni prevodi / Professional translation

K.A.Yushchenko, V.V.Derlomenko: "Analysis of modern conceptions about weldability" Analiza savremenih koncepata zavarivanja" Avtomaticheskaya svarka, №1, januar 2005.godina, Institut elektrozavarivanja E.O.Paton NAN, Ukraina - Prevod stručnog rada za časopis "Zavarivanje i zavarene konstrukcije" Vol.50, 2/2005, str.101-106.

Predavanje po pozivu / Lecture by invitation

- Godišnja konferencija DIVK posvećena 70. rođendanu Taška Maneskog, 17.11.2022. godine, Mašinski fakultet, Beograd (<http://divk.inovacionicentar.rs/>)
- State of the materials of a pipe branches 6A Hydro-power plant "Perućica" after 40 years of operation, The Society for Structural Integrity and Life „Prof. dr Stojan Sedmak“, 18. October 2013.
- *Application of ATIG welding procedure*, Company "Montavar Metalna Nova" – Maribor (Slovenia), March 2004.

- *Application of ATIG welding procedure in energetics*, Company "GNB S.r.l" – Sirone (Italia), May 2004.
- *Application of ATIG welding procedure in energetics*, Center for teaching and training of welders in Company Termoelektro-Belgrade (Serbia), Jun 2004.
- *Possibility of application ATIG welding procedure in shipbuilding*, Croatian Chamber of the Economy, Part Chamber from Rijeka in shipbuilding Company "3. Maj" Rijeka (Croatia), June 2004.
- *Application of ATIG welding procedure in arc welding high and low alloy steel*, University of Mechanical Engineering in Slavonski Brod and Society for welding technique Slavonski Brod (Croatia) , 19. and 20. October 2006.

Članstvo u asocijacijama / Membership in associations

- Member of Montenegro Welding Society
- Member of editorial board Journal Welding&Welded Structures, Belgrad (Serbia)
- The Society for Structural Integrity and Life „Prof. dr Stojan Sedmak“, Belgrad (Serbia)
- Member of Serbian Society for Advancement of Welding
- Member of Engineers Association of Montenegro
- President of the Technical Committee ISME / TK 008 - Pressure Equipment, within the Institute for Standards of Montenegro since 2013.
- The Engineers Association of Montenegro: Member of the Commission for taking the professional exam for topics in the field of mechanical constructions.

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