



ИНСТИТУТ ЗА МУЛТИДИСЦИПЛИНАРНА ИСТРАЖИВАЊА  
БЕОГРАД

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**НАУЧНОМ ВЕЋУ  
ИНСТИТУТА ЗА МУЛТИДИСЦИПЛИНАРНА ИСТРАЖИВАЊА  
БЕОГРАД**

Одлуком Научног већа Института за мултидисциплинарна истраживања, донетој на седници одржаној 24. априла 2018. године именовани смо за чланове Комисије за оцену научноистраживачког рада др **Ивана Јарића**, као и за утврђивање испуњености услова за његов избор у звање **научни саветник**. На основу анализе рада кандидата подносимо Научном већу следећи

**ИЗВЕШТАЈ**

**1. БИОГРАФСКИ ПОДАЦИ**

Иван Јарић рођен је 18. 05. 1978. године у Београду где је завршио основну школу и гимназију. Биолошки факултет у Београду уписао је школске 1997/98 године, на студијској групи Екологија и заштита животне средине, а дипломирао 2002. године, са средњом оценом 9,11. 2003. године уписује докторске студије на Центру за мултидисциплинарне студије, смер Управљање животном средином. 2007. године уписује Мастер студије (Master Programme in Management of Biological Diversity) на Универзитету у Упсали (Uppsala University) и Шведском универзитету пољопривредних наука (SLU) у Упсали, Шведска, где је 27. 4. 2009. одбранио тезу „Population viability analysis of the Danube sturgeon populations” и стекао звање Master of Science with a major in Environmental Science. Докторирао је 30. јуна 2010. године на мултидисциплинарним постдипломским студијама Универзитета у Београду, одбранивши докторску дисертацију под насловом „Хистопатолошке промене и акумулација тешких метала у популацијама кечиге (*Acipenser ruthenus* L.) у Дунаву”. Од 2003. до 2017. године био је запослен у Центру за мултидисциплинарне студије Универзитета у Београду, односно садашњем Институту за мултидисциплинарна истраживања.

У периоду од јуна до октобра 2010. године ангажован је од стране Министарства за животну средину и просторно планирање Републике Србије као стручни консултант тима за израду Националне стратегије одрживог коришћења природних ресурса и добара (консултант за биодиверзитет, геодиверзитет и предеони диверзитет), а у периоду од новембра 2010. до јануара 2011. године као стручни консултант Организације за европску безбедност и сарадњу (OEBS Мисија за Србију) за израду Националног акционог плана за имплементацију Архуске Конвенције. У периоду од априла до децембра 2012. године, руководио је пројектом израде Националног метарегистра за информације о животној средини, спроведеног од стране OEBS Мисије за Србију, Агенције за заштиту животне средине и Министарства енергетике, развоја и заштите животне средине Републике Србије.

У периоду од јануара 2011. до јануара 2012. године, боравио је као постдокторант на Лајбниц Институту за екологију копнених вода и рибарство (Leibniz-Institute of Freshwater Ecology and Inland Fisheries – IGB) у Берлину, где је био ангажован на истраживањима у оквиру пројекта „Population viability analysis of the European Atlantic sturgeon (*Acipenser sturio*) and the Atlantic sturgeon (*A. oxyrinchus*), as a tool for the evaluation of their restoration activities in Germany“. На истом Институту је боравио и у периоду од 1. новембра 2014. године до јуна 2017. године, у оквиру Georg Forster стипендије (HERMES), коју додељује Александер фон Хумболт фондација, а на истом институту је такође био и запослен као истраживач у периоду од јуна до октобра 2017. године.

Током септембра 2014. године боравио је као гостујући истраживач у САД на институту Woods Hole Oceanographic Institution (Woods Hole, MA), док је током новембра и децембра 2015. године боравио као гостујући истраживач у Француској, у Лабораторији за екологију, систематику и еволуцију Универзитета Париз-југ (CNRS, University of Paris-Sud, Orsay, Paris).

Од новембра 2017. године је запослен Институту за хидробиологију, Биолошког центра Академије наука Републике Чешке, као добитник стипендије J. E. Purkyně Fellowship коју додељује Академија наука Републике Чешке. Добитник је награде Danubius Young Scientist Award за 2015. годину, коју додељују Министарство науке, истраживања и економије Аустрије и Институт за Дунавски регион и централну Европу.

У досадашњем раду др Иван Јарић је учествовао у реализацији већег броја домаћих и иностраних научних пројеката, као и у раду већег броја домаћих и међународних стручних и научних конференција. До сада је публиковао 69 научних радова у иностраним и домаћим научним часописима и монографијама, као и 54 саопштења на међународним научним скуповима.

## 2. БИБЛИОГРАФИЈА

### 2.1. БИБЛИОГРАФИЈА НАКОН ПОКРЕТАЊА ИЗБОРА У ЗВАЊЕ ВИШИ НАУЧНИ САРАДНИК

#### 2.1.1. Рад у међународном часопису изузетних вредности (M21a) - (4 x 10 + 2 x 2.78 + 8.33 = 53.89):

1. Courchamp, F., **Jarić, I.**, Albert, C., Meinard, Y., Ripple, W.J. and Chapron, G. (2018). The paradoxical extinction of the most charismatic animals. *PLOS Biology* **16** (4), e2003997. DOI:10.1371/journal.pbio.2003997, Citata: 0, **(M21a, 2016, Biology 3/85, IF: 9.797)**
2. Strayer, D.L., D'Antonio, C.M., Essl, F., Fowler, M.S., Geist, J., Hilt, S., **Jarić, I.**, Jöhnk, K., Jones, C.G., Lambin, X., Lutzka, A.W., Pergl, J., Pyšek, P., Robertson, P., von Schmalensee, M., Stefansson, R.A., Wright, J. and Jeschke, J.M. (2017). Boom-bust dynamics in biological invasions: towards an improved application of the concept. *Ecology Letters* **20**, 1337-1350. DOI:10.1111/ele.12822, Citata: 2, **(M21a, 2016, Ecology 4/153, IF: 9.449)** Нормирани поени = 10/3.6 = 2.78
3. Roberts, D.L., **Jarić, I.** and Solow A.R. (2017). On the functional extinction of the Passenger Pigeon. *Conservation Biology* **31** (5), 1192-1195. DOI:10.1111/cobi.12914, Citata: 1, **(M21a, 2016, Biodiversity Conservation 5/54, IF: 4.842)**
4. Kalinkat, G., Cabral, J. S., Darwall, W., Ficetola, G. F., Fisher, J. L., Giling, D., Gosselin, M. P., Grossart, H. P., Jähnig, S. C., Jeschke, J. M., Knopf, K., Larsen, S., Onandia, G., Paetzig, M., Saul, W. C., Singer, G., Sperfeld, E. and **Jarić, I.** (2017). Flagship umbrella species needed for the conservation of overlooked aquatic biodiversity. *Conservation Biology* **31** (2), 481-485. DOI:10.1111/cobi.12813, Citata: 7, **(M21a, 2016, Biodiversity Conservation 5/54, IF: 4.842)** Нормирани поени = 10/3.6 = 2.78
5. Djikanović, V., Skorić, S., **Jarić, I.** and Lenhardt (2016). Age-specific metal and accumulation patterns in different tissues of nase (*Chodrostoma nasus*) from the Medjuvršje Reservoir. *Science of the Total Environment* **566-567**, 185-190. DOI:10.1016/j.scitotenv.2016.05.072, Citata: 1, **(M21a, 2016, Environmental Sciences 22/229, IF: 4.900)**
6. **Jarić, I.**, Knežević-Jarić, J. and Gessner, J. (2015). Global effort allocation in marine mammal research indicates geographical, taxonomic and extinction risk related biases. *Mammal Review* **45**, 54-62. DOI:10.1111/mam.12032, Citata: 7, **(M21a, 2015, Zoology 5/161, IF: 4.116)**
7. Rašković, B., Poleksić, V., Višnjić-Jeftić, Ž., Skorić, S., Gačić, Z., Djikanović, V., **Jarić, I.** and Lenhardt, M. (2015). Use of histopathology and elemental accumulation in different organs of two benthophagous fish species as indicators of river pollution. *Environmental Toxicology* **30** (10), 1153-1161. DOI:10.1002/tox.21988, Citata: 11, **(M21a, 2015, Water Resources 7/85, IF: 2.868)** Нормирани поени = 10/1.2 = 8.33

**2.1.2. Рад у врхунском међународном часопису (M21) - (10 x 8 + 5 = 85):**

8. Correia, R.A., **Jarić, I.**, Jepson, P., Malhado, A.C.M., Alves, J.A. and Ladle, R.J. (2018). Nomenclature instability in species culturomic assessments: why synonyms matter. *Ecological Indicators* **90**, 74-78. DOI:10.1016/j.ecolind.2018.02.059, Citata: 0, **(M21, 2016, Environmental Sciences 43/229, IF: 3.898)**
9. **Jarić, I.**, Roberts, D.L., Gessner, J., Solow, A. R. and Courchamp, F. (2017). Science responses to IUCN Red Listing. *PeerJ* **5**, e4025. DOI:10.7717/peerj.4025, Citata: 0, **(M21, 2015, Multidisciplinary Sciences 14/63, IF: 2.183)**
10. **Jarić, I.**, Gessner, J. and Solow A.R. (2016). Inferring functional extinction based on sighting records. *Biological Conservation* **199**, 84-87. DOI:10.1016/j.biocon.2016.04.034, Citata: 1, **(M21, 2016, Biodiversity Conservation 8/54, IF: 4.022)**
11. **Jarić, I.**, Courchamp, F., Gessner, J. and Roberts, D.L. (2016). Potentially Threatened – a Data Deficient flag for conservation management. *Biodiversity and Conservation* **25**, 1995-2000. DOI:10.1007/s10531-016-1164-0, Citata: 4, **(M21, 2016, Biodiversity Conservation 13/54, IF: 2.265)**
12. **Jarić, I.**, Smederevac-Lalić, M., Jovičić, K., Jaćimović, M., Cvijanović, G., Lenhardt, M. and Kalauzi, A. (2016). Indicators of unsustainable fishery in the Middle Danube. *Ecology of Freshwater Fish* **25**, 86-98. DOI:10.1111/eff.12193, Citata: 4, **(M21, 2016, Fisheries 13/50, IF: 2.054)**
13. **Jarić, I.**, Courchamp, F., Gessner, J. and Roberts, D.L. (2016). Data mining in conservation research using Latin and vernacular species names. *PeerJ* **4**, e2202. DOI:10.7717/peerj.2202, Citata: 2, **(M21, 2015, Multidisciplinary Sciences 14/63, IF: 2.183)**
14. Roberts, D.L. and **Jarić, I.** (2016). Inferring extinction in North American and Hawaiian birds in the presence of sighting uncertainty. *PeerJ* **4**, e2426. DOI:10.7717/peerj.2426, Citata: 1, **(M21, 2015, Multidisciplinary Sciences 14/63, IF: 2.183)**
15. Jovičić, K., Nikolić, D.M., Višnjić-Jeftić, Ž., Đikanović, V., Skorić, S., Stefanović, S.M., Lenhardt, M., Hegediš, A., Krpo-Četković, J. and **Jarić, I.** (2015). Mapping differential elemental accumulation in fish tissues: assessment of metal and trace element concentrations in wels catfish (*Silurus glanis*) from the Danube River by ICP-MS. *Environmental Science and Pollution Research* **22**, 3820-3827. DOI:10.1007/s11356-014-3636-7, Citata: 16, **(M21, 2015, Environmental Sciences 65/225, IF: 2.760)** Нормирани поени = 8/1.6 = 5
16. **Jarić, I.**, Jaćimović, M., Cvijanović, G., Knežević-Jarić, J. and Lenhardt, M. (2015). Demographic flexibility influences colonization success: profiling invasive fish species in the Danube River by the use of population models. *Biological Invasions* **17**, 219-229. DOI:10.1007/s10530-014-0721-2, Citata: 2, **(M21, 2015, Biodiversity Conservation 9/49, IF: 2.855)**
17. **Jarić, I.** and Roberts, D.L. (2014). Accounting for observation reliability when inferring extinction based on sighting records. *Biodiversity and Conservation* **23** (11), 2801-2815. DOI:10.1007/s10531-014-0749-8, Citata: 5, **(M21, 2012, Biodiversity Conservation 12/40, IF: 2.264)**

18. **Jarić, I.**, Knežević-Jarić, J. and Lenhardt, M. (2014). Relative age of references as a tool to identify emerging research fields with an application to the field of ecology and environmental sciences. *Scientometrics* **100**, 519-529. DOI:10.1007/s11192-014-1268-9, Citata: 3, (**M21, 2014, Computer Science, Interdisciplinary Applications 21/102, IF: 2.183**)

**2.1.3. Rad u istaknutom međunarodnom časopisu (M22) - (1 x 5 = 5):**

19. **Jarić, I.**, Gessner, J. and Lenhardt, M. (2015). A life-table metamodel to support the management of data deficient species, exemplified in sturgeons and shads. *Environmental Biology of Fishes* **98**, 2337-2352. DOI:10.1007/s10641-015-0439-8, Citata: 1, (**M22, 2014, Marine & Freshwater Biology 48/103, IF: 1.570**)

**2.1.4. Rad u međunarodnom časopisu (M23) - (11 x 3 + 2 x 2.14 + 2.5 = 39.78):**

20. **Jarić, I.**, Riepe, C. and Gessner, J. (2018). Sturgeon and paddlefish life history and management: experts' knowledge and beliefs. *Journal of Applied Ichthyology* **34**, 244-257. DOI:10.1111/jai.13563, Citata: 0, (**M23, 2016, Fisheries 34/50, IF: 0.845**)
21. **Jarić, I.**, Bronzi, P., Cvijanović, G., Lenhardt, M., Smederevac-Lalić, M. and Gessner, J. (2018). Paddlefish (*Polyodon spathula*) in Europe: an aquaculture species and a potential invader. *Journal of Applied Ichthyology* (in press). DOI:10.1111/jai.13672, Citata: 0, (**M23, 2016, Fisheries 34/50, IF: 0.845**)
22. Cvijanović, G., Adnađević, T., **Jarić, I.**, Lenhardt, M. and Marić, S. (2017). Genetic analysis of sterlet (*Acipenser ruthenus* L.) populations in the Middle and Lower Danube sections. *North – Western Journal of Zoology* **13** (1), 34-43. Citata: 0, (**M23, 2016, Zoology 122/163, IF: 0.733**)
23. Jovičić, K., Janković, S., Višnjić-Jeftić, Z., Skorić, S., Djikanović, V., Lenhardt, M., Hegediš, A., Krpo-Četković, J. and **Jarić, I.** (2016). Mapping differential elemental accumulation in fish tissues: importance of fish tissue sampling standardization. *Archives of Biological Sciences* **68** (2), 303-309. DOI:10.2298/ABS150629019J, Citata: 1, (**M23, 2014, Biology 68/85, IF: 0.718**) Нормирани поени =  $3/1.4 = 2.14$
24. Jovičić, K., Lenhardt, M. and **Jarić, I.** (2015). Importance of standardized reporting of elemental concentrations in fish tissues. *Human and Ecological Risk Assessment* **21**, 2170-2173. DOI:10.1080/10807039.2015.1032885, Citata: 0, (**M23, 2015, Environmental Sciences 149/225, IF: 1.306**)
25. Lenhardt, M., Poleksić, V., Vuković-Gačić, B., Rašković, B., Sunjog, K., Kolarević, S., **Jarić, I.** and Gačić, Z. (2015). Integrated use of different fish related parameters to assess the status of water bodies. *Slovenian Veterinary Research* **52** (1), 5-13. Citata: 4, (**M23, 2013, Veterinary Sciences 107/132, IF: 0.314**) Нормирани поени =  $3/1.2 = 2.5$
26. Jaćimović, M., Lenhardt, M., Višnjić-Jeftić, Ž., **Jarić, I.**, Gačić, Z., Hegediš, A. and Krpo-Četković, J. (2015). Elemental concentrations in different tissues of European perch and black bullhead from Sava Lake (Serbia). *Slovenian Veterinary Research* **52** (2), 57-65. Citata: 3, (**M23, 2013, Veterinary Sciences 107/132, IF: 0.314**)
27. **Jarić, I.**, Gessner, J., Acolas, M.L., Lambert, P., and Rochard, E. (2014). Modelling attempts utilized in sturgeon research: a review of the state-of-the art. *Journal of Applied Ichthyology* **30**, 1379-1386. DOI:10.1111/jai.12572, Citata: 2, (**M23, 2014, Fisheries 37/52, IF: 0.867**)

28. Gessner, J., Zahn, S., **Jarić, I.** and Wolter, C. (2014). Estimating the potential for habitat restoration and connectivity effects on European sturgeon (*Acipenser sturio* L. 1758) population rehabilitation in a lowland river – the Havel, Germany. *Journal of Applied Ichthyology* **30**, 1473-1482. DOI:10.1111/jai.12613, Citata: 3, **(M23, 2014, Fisheries 37/52, IF: 0.867)**
29. Gessner, J. and **Jarić, I.** (2014). A life-stage population model of the European sturgeon (*Acipenser sturio* L., 1758) in the Elbe River. Part II: assessment of the historic population decline. *Journal of Applied Ichthyology* **30**, 267-271. DOI:10.1111/jai.12419, Citata: 3, **(M23, 2014, Fisheries 37/52, IF: 0.867)**
30. Lenhardt, M., Smederevac-Lalić, M., Djikanović, V., Cvijanović, G., Vuković-Gačić, B., Gačić, Z. and **Jarić, I.** (2014). Biomonitoring and genetic analysis of sturgeons in Serbia – a contribution to their conservation. *Acta Zoologica Bulgarica* Suppl. **7**, 69-73. Citata: 1, **(M23, 2014, Zoology 133/154, IF: 0.532)**
31. Jovičić, K., Lenhardt, M., Višnjić-Jeftić, Ž., Đikanović, V., Skorić, S., Smederevac-Lalić, M., Jaćimović, M., Gačić, Z., **Jarić, I.** and Hegediš, A. (2014). Assessment of fish stocks and elemental pollution in the Danube, Sava and Kolubara rivers on the territory of the city of Belgrade, Serbia. *Acta Zoologica Bulgarica* Suppl. **7**, 179-184. Citata: 7, **(M23, 2014, Zoology 133/154, IF: 0.532)** Нормирани поени = 3/1.4 = 2.14
32. **Jarić, I.** and Gessner, J. (2013). A life-stage population model of the European sturgeon (*Acipenser sturio*) in the Elbe River. Part I: general model outline and potential applications. *Journal of Applied Ichthyology* **29**, 483-493. DOI:10.1111/jai.12235, Citata: 9, **(M23, 2013, Fisheries 34/50, IF: 0.903)**
33. Rašković, B., **Jarić, I.**, Koko, V., Spasić, M., Dulić, Z., Marković, Z. and Poleksić, V. (2013). Histopathological indicators: a useful fish health monitoring tool in common carp (*Cyprinus carpio* Linnaeus, 1758) culture. *Central European Journal of Biology* **8** (10), 975-985. DOI:10.2478/s11535-013-0220-y, Citata: 22, **(M23, 2011, Biology 58/85, IF: 1.000)**

**2.1.5. Научна критика и полемика у истакнутом међународном часопису (M25) - (2 x 1.5 = 3):**

34. **Jarić, I.** (2016). High time for a common plagiarism detection system. *Scientometrics* **106**, 457-459. DOI:10.1007/s11192-015-1756-6, Citata: 3, **(M25, 2014, Computer Science, Interdisciplinary Applications 21/102, IF: 2.183)**
35. **Jarić, I.** (2015). Complexity and insidiousness of cryptic function loss mechanisms. *Trends in Ecology and Evolution* **30** (7), 371-372. DOI:10.1016/j.tree.2015.04.014, Citata: 1, **(M25, 2015, Ecology 1/150, IF: 16.735)**

**2.1.6. Уређивање међународног научног часописа, на годишњем нивоу (M29a) - (2 x 1.5 = 3):**

36. Turkish Journal of Fisheries and Aquatic Sciences, Editorial Board Member (Section Editor) (2017-2018) **(M23, 2016, Fisheries 42/50, IF: 0.484)**

**2.1.7. Саопштење са међународног скупа штампано у целини (M33) - (2 x 1 + 2 x 0.83 = 3.66):**

37. Jovičić, K., Višnjić-Jeftić, Ž., Skorić, S., Smederevac-Lalić, M., Nikolić, D.M., Đikanović, V., **Jarić, I.** and Hegediš, A. (2015). Assessment of the metal and trace element contents in tissues of four commercial fish species from the Danube River, Belgrade. 7th International Conference "Water & Fish", June 10-12, Belgrade, Serbia, 94-100. Нормирани поени =  $1/1.2 = 0.83$
38. **Jarić, I.**, Cvijanović, G., Smederevac-Lalić, M., Gessner, J., Gačić, Z. and Lenhardt, M. (2013). Sturgeon conservation and management cooperation in the Danube River Basin. Humboldt-Kolleg, "Resources of Danubian Region: the possibility of cooperation and utilization", Belgrade, 12-15 June. Humboldt-Club Serbien, Belgrade, 171-180. ISBN: 978-86-916771-1-4
39. Spasić, S., Smederevac-Lalić, M., Pucar, M., **Jarić, I.**, Mićković, B., Skorić, S., Višnjić-Jeftić, Ž. and Hegediš, A. (2013). Importance of the quality of catch statistic data for the sustainable use of fish resources in Serbia. Proceedings of the 12<sup>th</sup> International Scientific Conference "Sinergija", March 29, Bijeljina, Bosnia and Herzegovina, 697-702. Нормирани поени =  $1/1.2 = 0.83$
40. Spasić, S., Višnjić-Jeftić, Ž., Smederevac-Lalić, M., Pucar, M., **Jarić, I.**, Mićković, B., Skorić, S., and Lenhardt, M. (2013). Meat quality of commercial fish species in the Danube from the aspect of heavy metal presence. Proceedings of the 12<sup>th</sup> International Scientific Conference "Sinergija", March 29, Bijeljina, Bosnia and Herzegovina, 703-707. Нормирани поени =  $1/1.2 = 0.83$

**2.1.8. Саопштење са међународног скупа штампано у изводу (M34) - (16 x 0.5 + 2 x 0.23 + 0.28 + 0.25 = 8.99):**

41. **Jarić, I.**, Lennox, R., Kalinkat, G., Cvijanović, G. and Radinger, J. (2018). Susceptibility of European freshwater fish to climate change: species profiling based on life-history and environmental characteristics. 5th European Congress of Conservation Biology (ECCB 2018), June 12-15, Jyväskylä, Finland.
42. **Jarić, I.**, Correia, R., Kalinkat, G., Roberts, D.L., Meinard, Y. and Courchamp, F. (2018). Public awareness of extinction risks of threatened European species. 5th European Congress of Conservation Biology (ECCB 2018), June 12-15, Jyväskylä, Finland.
43. von Schmalensee, M., **Jarić, I.**, Stefánsson, R.A., Jeschke, J.M. and Strayer, D.L. (2017). Can we trust that they will bust? Boom-bust dynamics in biological invasions. IceBio2017 Conference on Biology, October 26-28, Reykjavik, Iceland.
44. **Jarić, I.** and Gessner, J. (2017). Importance of life history variability for management time horizons and planning: Atlantic sturgeon populations along the North American coast. 8th International Symposium on Sturgeon, September 10-16, Vienna, Austria, Conference proceedings, 04-7.
45. **Jarić, I.**, Riepe, C. and Gessner, J. (2017). Sturgeon and paddlefish life history and management: experts' knowledge and beliefs. 8th International Symposium on Sturgeon, September 10-16, Vienna, Austria, Conference proceedings, 09-9.
46. **Jarić, I.**, Smederevac-Lalić, M., Cvijanović, G., Bronzi, P., Lenhardt, M. and Gessner, J. (2017). Status of paddlefish in Europe as an object of aquaculture and a

- potential invader. 8th International Symposium on Sturgeon, September 10-16, Vienna, Austria, Conference proceedings, 15-5.
47. Gessner, J., **Jarić, I.**, Acolas, M. L., Ebert, M., Hallermann, J., Arndt, G. M. and Rochard, E. (2017). European sturgeon recovery attempts as a joint strategy of the range states. 8th International Symposium on Sturgeon, September 10-16, Vienna, Austria, Conference proceedings, 01-8.
  48. Kalinkat, G., Mittermeier, J.C., Roll, U., Lennox, R. and **Jaric, I.** (2017). Using Wikipedia page views to explore the potential of invasion culturomics. British Ecological Society Symposium "The Macroecology of Alien Species: Patterns, Drivers and Consequences of Global Biotic Exchange", July 24-26, Durham University, Durham, UK.
  49. **Jarić, I.**, Bronzi, P., Cvijanović, G., Lenhardt, M., Smederevac-Lalić, M. and Gessner, J. (2017). Paddlefish (*Polyodon spathula*) in Europe: an aquaculture species and a potential invader. Symposium "Paddlefish: Ecological, Aquacultural, and Regulatory Challenges of Managing a Global Resource", American Fisheries Society, Southern Division Meeting, February 2-5, Oklahoma City, Oklahoma.
  50. **Jaric, I.**, Riepe, C. and Gessner, J. (2016). What we know and what we think we know about sturgeon and paddlefish life history and management. The North American Sturgeon and Paddlefish (NASPS) Annual Meeting, September 19-23, Portland, Oregon.
  51. Cvijanović, G., Adnađević, T., **Jarić, I.**, Jojić, V., Marić, S. and Lenhardt, M. (2016). Danube sterlet morphometrics and genetic - guidelines for restocking programs. FitFish Annual Conference, April 22, Belgrade, Serbia, p. 50.
  52. Wolter, C., Zahn, S., **Jaric, I.** and Gessner, J. (2015). Prioritizing efforts to restore habitats and longitudinal connectivity for the rehabilitation of the European sturgeon (*Acipenser sturio*) in a German lowland river. International conference on river connectivity best practices and innovations "Fish Passage 2015", June 20-25, Groningen, The Netherlands, p. 18.
  53. Lenhardt, M., **Jaric, I.**, Skoric, S., Smederevac-Lalic, M., Cvijanovic, G., Djikanovic, V., Visnjic-Jeftic, Z., Hegedis, A., Mickovic, B., Nikcevic, M., Jovicic, K., Jacimovic, M. and Gacic, Z. (2015). Restoration of longitudinal connectivity of the Danube River by the construction of free passages for migratory fish species at the Iron Gates dams. International conference on river connectivity best practices and innovations "Fish Passage 2015", June 20-25, Groningen, The Netherlands, p. 137-138. Нормирани поени =  $0.5/2.2 = 0.23$
  54. Jovičić, K., Smederevac-Lalić, M., Kalauzi, A., Krpo-Ćetković, J., Lenhardt, M. and **Jarić, I.** (2015). Assessment of the historic fishery sustainability in the Danube River in Belgrade, Serbia. 7th Eastern European Young Water Professionals Conference, September 17-19, Belgrade, Serbia.
  55. Ćosić, N., **Jarić, I.** and Ćirović, D. (2014). Minimum viable population size of the European ground squirrel (*Spermophilus citellus*). 5<sup>th</sup> European Ground Squirrel Meeting, October 02-05, Rust, Austria, p. 38.
  56. Lenhardt, M., **Jaric, I.**, Skoric, S., Smederevac-Lalic, M., Cvijanovic, G., Djikanovic, V., Visnjic-Jeftic, Z., Hegedis, A., Mickovic, B., Nikcevic, M., Jovicic, K., Jacimovic, M. and Gacic, Z. (2014). Different possibilities for tracking sturgeon migration and habitat mapping in the Danube River. Book of abstracts, International



Congress on the Biology of Fish, August 3-7, Edinburgh, United Kingdom, 142-143.  
Нормирани поени =  $0.5/2.2 = 0.23$

57. Lenhardt, M., Smederevac-Lalić, M., Djikanović, V., Cvijanović, G., Gačić, Z. and **Jarić, I.** (2014). Past and current investigations of sturgeons in Serbia – analysis of critical gaps that should be resolved to achieve their successful conservation. 40th Conference of the International Association of Danube Research, June 17-20, Sofia, Bulgaria, p. 24.
58. Jovičić, K., Lenhardt, M., Višnjić-Jeftić, Ž., Đikanović, V., Skorić, S., Smederevac-Lalić, M., Cvijanović, G., Jaćimović, M., Gačić, Z., **Jarić I.** and Hegediš, A. (2014). Assessment of stocks and meat quality of fishery resources in the Danube, Sava and Kolubara rivers on the territory of the city of Belgrade, Serbia. 40th Conference of the International Association of Danube Research, June 17-20, Sofia, Bulgaria, p. 42. Нормирани поени =  $0.5/1.8 = 0.28$
59. Gessner, J., Arndt, G.M., Spratte, S., Skora, M. and **Jaric, I.** (2013). An assessment of the fisheries management options for reestablishment of Baltic sturgeon populations. 7th International Symposium on Sturgeon, July 21-25, Nanaimo, Canada, Conference proceedings, 2-P-335.
60. Lambert, P., Acolas, M.L., Gessner, J., **Jaric, I.**, Chèvre, P., Dumoulin, N., Rougier, T., Drouineau, H., Delage, N., Jatteau, P., Pelard, M. and Rochard, E. (2013). Influence of stocking and homing fidelity on population viability of European sturgeon *Acipenser sturio* in the Gironde Basin. 7th International Symposium on Sturgeon, July 21-25, Nanaimo, Canada, Conference proceedings, 02-O-247. Нормирани поени =  $0.5/2 = 0.25$

### **2.1.9. Рад у научном часопису (M53) - (1 x 1 + 0.83 = 1.83):**

61. Lenhardt, M., **Jarić, I.**, Kolarević, S., Vuković-Gačić, B., Knežević-Vukčević, J., Smederevac-Lalić, M., Cvijanović, G. and Gačić, Z. (2016). Impact of human activities on the status of the Danube River in Serbia: microbiological and ichthyofaunistic studies. *Acta Oecologica Carpatica* **9**, 151-176. Citata: 2. Нормирани поени =  $1/1.2 = 0.83$
62. Gessner, J., **Jarić, I.**, Rochard, E. and Pourkazemi M. (2013). Sturgeon and paddlefish research focuses on low risk species and largely disregards endangered species. *Endangered Species Research* **22** (2), 95-97. DOI:10.3354/esr00543, Citata: 1.

## **2.2. БИБЛИОГРАФИЈА ДО ПОКРЕТАЊА ИЗБОРА У ЗВАЊЕ ВИШИ НАУЧНИ САРАДНИК**

### **2.2.1. Монографска студија/поглавље у књизи M11 или рад у тематском зборнику водећег међународног значаја (M13) - (1 x 7 = 7):**

63. **Jarić, I.**, Knežević Jarić, J., Cvijanović, G. and Lenhardt, M. (2011). Population viability analysis of the European sturgeon (*Acipenser sturio* L.) from the Gironde Estuary system. In: P. Williot et al. (eds.), *Biology and conservation of the European sturgeon Acipenser sturio L. 1758*. Springer-Verlag Berlin Heidelberg, 603-619.

**2.2.2. Монографска студија/поглавље у књизи M12 или рад у тематском зборнику међународног значаја (M14) - (3 x 4 = 12):**

64. Lenhardt, M., Višnjić-Jeftić, Ž., Navodaru, I., **Jarić, I.**, Vassilev, M., Gačić, Z. and Nikčević, M. (2012). Fish stock management cooperation in the Lower Danube Region: a case study of sturgeons and Pontic shad. In: V. Lagutov (ed.), *Environmental security in watersheds: the Sea of Azov*. Springer Science, 127-140. doi: 10.1007/978-94-007-2460-0\_7
65. Lenhardt, M., **Jarić, I.**, Cvijanović, G. and Smederevac-Lalić, M. (2008). The key threats to sturgeons and measures for their protection in the Lower Danube Region. In: Lagutov, V. (ed.), *Rescue of sturgeon species in the Ural River Basin*. Springer Science, 87-96.
66. **Jarić, I.**, Knežević Jarić, J., Cvijanović, G. and Lenhardt, M. (2011). Implementing population viability analysis into fisheries management. In: J.S. Intilli (ed.), *Fishery Management*. Nova Science Publishers Inc., New York, pp. 43-60. ISBN: 978-1-61209-682-7

**2.2.3. Рад у међународном часопису изузетних вредности (M21a) - (2 x 10 = 20):**

67. **Jarić, I.**, Cvijanović, G., Knežević-Jarić, J. and Lenhardt, M. (2012). Trends in fisheries science during 2000-2009: a bibliometric study. *Reviews in Fisheries Science* **20** (2), 70-79. DOI:10.1080/10641262.2012.659775, Citata: 19, **(M21a, 2012, Fisheries 4/50, IF: 2.417)**
68. **Jarić, I.**, Ebenhard, T. and Lenhardt, M. (2010). Population Viability Analysis of the Danube sturgeon populations in a VORTEX simulation model. *Reviews in Fish Biology and Fisheries* **20** (2), 219-237. DOI:10.1007/s11160-009-9151-0, Citata: 13, **(M21a, 2010, Fisheries 2/46, IF: 3.609)**

**2.2.4. Рад у врхунском међународном часопису (M21) - (7 x 8 + 6.67 = 62.67):**

69. **Jarić, I.** and Gačić, Z. (2012). Relationship between the longevity and the age at maturity in long-lived fish: Rikhter/Efanov's and Hoenig's methods. *Fisheries Research* **129-130**, 61-63. DOI:10.1016/j.fishres.2012.06.010, Citata: 4, **(M21, 2010, Fisheries 11/46, IF: 1.656)**
70. Skoric, S., Visnjić-Jeftić, Z., **Jarić, I.**, Djikanovic, V., Mickovic, B., Nikcevic, M. and Lenhardt, M. (2012). Accumulation of 20 elements in great cormorant (*Phalacrocorax carbo*) and its main prey, common carp (*Cyprinus carpio*) and Prussian carp (*Carassius gibelio*). *Ecotoxicology and Environmental Safety* **80**, 244-251. DOI:10.1016/j.ecoenv.2012.03.004, Citata: 26, **(M21, 2010, Fisheries 53/193, IF: 2.340)**
71. Sunjog, K., Gačić, Z., Kolarević, S., Višnjić-Jeftić, Ž., **Jarić, I.**, Knežević-Vukčević, J., Vuković-Gačić, B. and Lenhardt, M. (2012). Heavy metal accumulation and the genotoxicity in barbel (*Barbus barbus*) as indicators of the Danube River pollution. *The Scientific World Journal* **2012**, Article ID 351074, 1-6. DOI:10.1100/2012/351074, Citata: 39, **(M21, 2012, Multidisciplinary Sciences 13/56, IF: 1.730)** Нормирани поени = 8/1.2 = 6.67
72. **Jarić, I.** and Gessner, J. (2012). Analysis of publications on sturgeon research between 1996 and 2010. *Scientometrics* **90** (2), 715-735. DOI:10.1007/s11192-012-

- 0710-0, Citata: 19, (**M21, 2012, Computer Science, Interdisciplinary Applications 20/100, IF: 2.133**)
73. **Jarić, I.**, Cvijanović, G., Hegediš, A. and Lenhardt, M. (2012). Assessing the range of newly established invasive species in rivers using probabilistic methods. *Hydrobiologia* **680**, 171-178. DOI:10.1007/s10750-012-1104-2, Citata: 9, (**M21, 2010, Marine & Freshwater Biology 26/93, IF: 1.964**)
  74. **Jarić, I.**, Višnjić-Jeftić, Ž., Cvijanović, G., Gačić, Z., Jovanović, Lj., Skorić, S. and Lenhardt, M. (2011). Determination of differential heavy metal and trace element accumulation in liver, gills, intestine and muscle of sterlet (*Acipenser ruthenus*) from the Danube River in Serbia by ICP-OES. *Microchemical Journal* **98**, 77-81. DOI:10.1016/j.microc.2010.11.008, Citata: 149, (**M21, 2011, Chemistry, Analytical 17/73, IF: 3.048**)
  75. Višnjić-Jeftić, Z., **Jarić, I.**, Jovanović, Lj., Skoric, S., Smederevac-Lalic, M., Nikcevic, M. and Lenhardt, M. (2010). Heavy metal and trace element accumulation in muscle, liver and gills of the Pontic shad (*Alosa immaculata* Bennet 1835) from the Danube River (Serbia). *Microchemical Journal* **95** (2), 341-344. DOI:10.1016/j.microc.2010.02.004, Citata: 98, (**M21, 2008, Chemistry, Analytical 20/70, IF: 2.505**)
  76. Poleksic, V., Lenhardt, M., **Jarić, I.**, Djordjevic, D., Gacic, Z., Cvijanovic, G. and Raskovic, B. (2010). Liver, gills and skin histopathology and heavy metal content of the Danube sterlet (*Acipenser ruthenus* Linnaeus, 1758). *Environmental Toxicology & Chemistry* **29** (3), 515-521. DOI:10.1002/etc.82, Citata: 67, (**M21, 2010, Environmental Sciences 34/193, IF: 3.026**)

#### **2.2.5. Рад у истакнутом међународном часопису (M22) - (7 x 5 + 4.17= 39.17):**

77. Lenhardt, M., **Jarić, I.**, Višnjić-Jeftić, Ž., Skorić, S., Gačić, Z., Pucar, M. and Hegediš, A. (2012). Concentrations of 17 elements in muscle, gills, liver and gonads of five economically important fish species from the Danube River. *Knowledge and Management of Aquatic Ecosystems* **407** (2), 1-10. DOI:10.1051/kmae/2012028, Citata: 19, (**M22, 2011, Fisheries 21/50, IF: 1.520**)
78. **Jarić, I.** and Cvijanović, G. (2012). The Tens Rule in invasion biology – measure of a true impact or of our lack of knowledge and understanding? *Environmental Management* **50**, 979-981. DOI:10.1007/s00267-012-9951-1, Citata: 11, (**M22, 2011, Environmental Sciences 90/205, IF: 1.744**)
79. Lenhardt, M., **Jarić, I.**, Kalauzi, A. and Cvijanovic, G. (2006). Assessment of extinction risk and reasons for decline in sturgeon. *Biodiversity and Conservation* **15**, 1967-1976. DOI:10.1007/s10531-005-4317-0, Citata: 35, (**M22, 2006, Biodiversity Conservation 11/24, IF: 1.423**)
80. Cvijanović, G., Cvijanović, M., **Jarić, I.** and Lenhardt, M. (2012). Use of shape analysis in the investigation of disputable meristic characters for *Ameiurus melas* (Rafinesque, 1820) and *Ameiurus nebulosus* (Lesueur, 1819). *Journal of Applied Ichthyology* **28**, 617-622. DOI:10.1111/j.1439-0426.2012.02009.x, Citata: 2, (**M22, 2010, Fisheries 26/46, IF: 0.945**)
81. **Jarić, I.**, Lenhardt, M., Pallon, J., Elfman, M., Kalauzi, A., Suci, R., Cvijanović, G. and Ebenhard, T. (2011). Insight into Danube sturgeon life history: trace element assessment in pectoral fin rays. *Environmental Biology of Fishes* **90**, 171-181.

DOI:10.1007/s10641-012-0003-8, Citata: 9, (M22, 2009, Marine & Freshwater Biology 51/88, IF: 1.155) Нормирани поени =  $5/1.2 = 4.17$

82. Smederevac-Lalić, M., **Jarić, I.**, Višnjić-Jeftić, Ž., Skorić, S., Cvijanović, G., Gačić, Z. and Lenhardt, M. (2011). Management approaches and aquaculture of sturgeons in the Lower Danube region countries. *Journal of Applied Ichthyology* 27(Suppl. 3), 94-100. DOI:10.1111/j.1439-0426.2011.01859.x, Citata: 7, (M22, 2009, Fisheries 24/42, IF: 1.121)
83. **Jarić, I.** and Ebenhard, T. (2010). A method for inferring extinction based on sighting records that change in frequency over time. *Wildlife Biology* 16 (3), 267-275. DOI:10.2981/09-044, Citata: 7, (M22, 2009, Zoology 71/129, IF: 0.984)
84. **Jarić, I.**, Lenhardt, M., Cvijanović, G. and Ebenhard, T. (2009). *Acipenser sturio* and *Acipenser nudiiventris* in the Danube – extant or extinct? *Journal of Applied Ichthyology* 25, 137-141. DOI:10.1111/j.1439-0426.2009.01227.x, Citata: 12, (M22, 2009, Fisheries 24/42, IF: 1.121)

#### **2.2.6. Рад у међународном часопису (M23) - (5 x 3 = 15):**

85. Skorić, S., Cvijanović, G., Kohlmann, K., Hegediš, A., **Jarić, I.** and Lenhardt, M. (2013). First record of a hybrid striped bass (*Morone saxatilis* x *Morone chrysops*) in the Danube River. *Journal of Applied Ichthyology* 29, 668-670. DOI:10.1111/jai.12152, Citata: 1, (M23, 2013, Fisheries 34/50, IF: 0.903)
86. Lenhardt, M., **Jarić, I.**, Cvijanović, G., Kolarević, J., Gačić, Z., Smederevac-Lalić, M. and Višnjić-Jeftić, Ž. (2012). Comparison of morphological characters between wild and cultured sterlet (*Acipenser ruthenus* L.). *Slovenian Veterinary Research* 49 (4), 177-184. Citata: 6, (M23, 2012, Veterinary Sciences 86/143, IF: 0.647)
87. **Jarić, I.**, Lenhardt, M., Cvijanović, G. and Ebenhard, T. (2009). Population viability analysis and potential of its application to Danube sturgeons. *Archives of Biological Sciences* 61 (1), 123-128. DOI:10.2298/ABS0901123J, Citata: 1, (M23, 2009, Biology 73/76, IF: 0.238)
88. Lenhardt, M., **Jarić, I.**, Cakić, P., Cvijanović, G., Gačić, Z. and Kolarević, J. (2009). Seasonal changes in condition, hepatosomatic index and parasitism in sterlet (*Acipenser ruthenus* L.). *Turkish Journal of Veterinary & Animal Sciences* 33 (3), 209-214. DOI:10.3906/vet-0710-14, Citata: 13, (M23, 2009, Veterinary Sciences 100/142, IF: 0.342)
89. Hegediš, A., Lenhardt, M., Mićković, B., Cvijanović, G., **Jarić, I.** and Gačić, Z. (2007). Amur sleeper (*Perccottus glenii* Dubowski, 1877) spreading in the Danube River Basin. *Journal of Applied Ichthyology* 23, 705-706. DOI:10.1111/j.1439-0426.2007.00867.x, Citata: 26, (M23, 2007, Fisheries 30/40, IF: 0.663)

#### **2.2.7. Научна критика и полемика у истакнутом међународном часопису (M25) - (2 x 1.5 = 3):**

90. **Jarić, I.** (2014). The use of sighting records to infer species extinctions: an evaluation of different methods: comment. *Ecology* 95 (1), 238-239. DOI:10.1890/12-1088.1, Citata: 1, (M25, 2012, Ecology 15/136, IF: 5.175)
91. **Jarić, I.** (2011). The use of *h*-index for the assessment of journals' performance will lead to shifts in editorial policies. *Journal of the American Society for Information*

*Science and Technology* **62** (12), 2546. DOI:10.1002/asi.21642, Citata: 1, (M25, 2011, Computer Science, Information Systems 21/135, IF: 2.081)

**2.2.8. Саопштење са међународног скупа штампано у целини (M33) - (10 x 1 + 0.71 = 10.71):**

92. Spasić, S., **Jarić, I.**, Navodaru, I., Višnjić Jeftić, Ž., Gessner, J. and Lenhardt, M. (2012). Life table model of the Pontic shad (*Alosa immaculata* Bennet, 1835) from the Danube River and the Black Sea. Proceedings of the 39th Conference of the International Association of Danube Research: Living Danube, August 21-24, Szentendre, Hungary, 47-52.
93. Šimić, G., Spasić, S., Jevremović, A. and **Jarić, I.** (2012). Ecologist - web application for simulation experiments on the model of trout population. Conference proceedings, 10<sup>th</sup> International Scientific Conference Sinergija 2012 - "Environmental Protection and Management", March 30, Bijeljina, Bosnia and Herzegovina, 70 – 75. ISBN: 978-99955-26-25-2
94. Lenhardt, M., **Jarić, I.**, Cvijanović, G., Smederevac-Lalić, M., Gačić, Z., Mićković, B. and Nikčević, M. (2010). Sterlet (*Acipenser ruthenus* L.) as an object of research, fishery and aquaculture in Serbia. 38th Conference of International Association of Danube Research, June 22-25, Dresden, Germany, 1-5.
95. Lenhardt, M., **Jarić, I.**, Poleksić, V., Djordjević, D., Cvijanović, G., Rašković, B. and Gačić, Z. (2010). Assessment of biomarkers for toxicity of the Danube and Tisza River pollution: histological, morphological and ecological parameters of sterlet (*Acipenser ruthenus* L.). Conference Proceedings, BALWOIS 2010 Conference, May 25-29, Ohrid, Macedonia, 1-6 [<http://balwois.org>].
96. Cvijanović, G., Lenhardt, M., Hegediš, A., Gačić, Z. and **Jarić, I.** (2008). *Ameiurus melas* (Rafinesque, 1820) – pest or possibility. Proceedings of the EIFAC Symposium on Interactions Between Social, Economic and Ecological Objectives of Inland Commercial and Recreational Fisheries and Aquaculture, Antalya, Turkey, 21-24 May 2008, 56-63.
97. Lenhardt, M., **Jarić, I.**, Bojović, D., Cvijanović, G. and Gačić, Z. (2006). Past and current status of sturgeon in the Serbian part of the Danube River. Proceedings 36th International Conference of IAD, 148-151. Austrian Committee DanubeResearch / IAD, Vienna.
98. Spasić, T., **Jarić, I.** and Tadić, M. (2004). Analyses of the national environmental education, European perspectives. Environmental education towards european standards, Proceedings of the Regional Conference, 45-55. Ecolibri-Bionet, Belgrade.
99. Lenhardt, M., Kolarević, J., **Jarić, I.**, Cvijanović, G., Poleksić, V., Mićković, B., Gačić, Z., Cakić, P. and Nikčević, M. (2004). Assessment concepts for river ecosystems characterization based on sterlet (*Acipenser ruthenus* L.) population research. Proceedings of the Fifth International Symposium on Ecohydraulics "Aquatic habitats: analysis & restoration", Madrid, 12th-17th September, 153-156. Нормирани поени =  $1/1.4 = 0.71$
100. Lenhardt, M., Cakić, P., Kolarević, J., Gačić, Z., Mićković, B., **Jarić, I.** and Nikčević, M. (2004). Length – weight relationship of sterlet (*Acipenser ruthenus* L.)

juveniles in the Danube river. Proceedings 35th International Conference of IAD, 533-536. Austrian Committee DanubeResearch / IAD, Vienna.

101. Kolarević, J., Lenhardt, M., Cakić, P. and **Jarić, I.** (2004). Population study of the Danube sterlet (*Acipenser ruthenus* L.). RDPC Workshop 2003, 1-5 October, Kotor, Serbia and Montenegro. In: Otterstad, O. (ed), *Releasing development potentials at the Eastern Adriatic*, NTNU [Available at [www.easternadriatic.com](http://www.easternadriatic.com)].
102. Nikčević, M., Lenhardt, M., Cakić, P., Mićković, B., Kolarević, J. and **Jarić, I.** (2004). Historical review and new initiatives for sturgeon fisheries, aquaculture and caviar production in Serbia and Montenegro. RDPC Workshop 2003, 1-5 October, Kotor, Serbia and Montenegro. In: Otterstad, O. (ed), *Releasing development potentials at the Eastern Adriatic*, NTNU [Available at [www.easternadriatic.com](http://www.easternadriatic.com)].

**2.2.9. Саопштење са међународног скупа штампано у изводу (M34) - (12 x 0.5 + 3 x 0.42 + 3 x 0.36 + 0.31= 8.65):**

103. **Jarić, I.** and Gessner, J. (2012). Options for the remediation strategies of the European sturgeon in Germany derived from an age-structured population model. World Sturgeon Conservation Society General Assembly 2012 & Mini Scientific Symposium, 12th March, Tulcea, Romania, p. 1.
104. Cvijanović, G., Adnađević, T., **Jarić, I.** and Lenhardt, M. (2012). Use of genetics in monitoring and management of sterlet (*Acipenser ruthenus*) in the Lower and Middle Danube River – lack of funding or a lack of cooperation? Utiliyation of genetic approaches for effective conservation of endangered species, Regional Workshop, March 14-16, Debrecen, Hungary, p. 18.
105. Lenhardt, M., Gačić, Z., Višnjić-Jeftić, V., **Jarić, I.**, Mićković, B., Subotić, S., Skorić, S. and Hegediš, A. (2012). Accumulation levels of 17 elements in muscle, liver and gills of seven commercially exploited fish species. Book of abstracts, 12<sup>th</sup> Congress of Nutrition “Nutrition to Health in 21<sup>st</sup> Century”, October 31 – November 3, Belgrade, Serbia. Нормирани поени = 0.5/1.2 = 0.42
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  115. Lenhardt, M., Poleksić, V., Cvijanović, G., **Jarić, I.**, Višnjić-Jeftić, Ž., Smederevac-Lalić, M., Hegediš., A., Gačić, Z., and Mićković, B. (2008). Histopathological analyses of sterlet (*Acipenser ruthenus* L.) vital organs as indicators of population condition. XXXII Scientific Conference on Fisheries and Aquaculture; Proceedings of the International Workshop on Sturgeon Conservation and Breeding, Szarvas, Hungary, 15-16 May 2008, 47-48. Нормирани поени =  $0.5/1.4 = 0.36$
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119. **Jarić, I.**, Bjedov, V. and Knežević, J. (2005). Dispersion and origin of nutria (*Myocastor coypus*) on territory of South Banat. Book of abstracts, 5<sup>th</sup> European Vertebrate Pest Management Conference, Budapest, Hungary, 5-8. September 2005, p. 90.
120. Lenhardt, M., Cvijanović, G., Kolarević, J., **Jarić, I.** and Cakić, P. (2004). Changes of sterlet (*Acipenser ruthenus* L.) population age structure in the Danube River during last half of twentieth century. Book of abstracts, 22<sup>nd</sup> International Biophysics Symposium, Sveti Stefan, Serbia and Montenegro, 9th-14th October, W2:P6.
121. Lenhardt, M., Prokes, M., **Jarić, I.**, Barus, V., Kolarevic, J., Krupka, I., Cvijanovic, G., Cakic, P. and Gacic, Z. (2004). Comparative analysis of morphometric characters of juvenile sterlet (*Acipenser ruthenus* L.) from natural population and aquaculture. Nature and culture: Comparative Biology and Interactions of Wild and Farmed Fish. The Fisheries Society of the British Isles. Annual International Symposium, Imperial College, London, England, 19-23 July 2004. Book of abstracts, p. 26. Нормирани поени =  $0.5/1.4 = 0.36$

**2.2.10. Поглавље у књизи M42 или рад у тематском зборнику националног значаја (M45) - (1 x 1.5 = 1.5):**

122. **Jarić, I.** (2012). Dostupnost informacija o životnoj sredini, s posebnim osvrtom na aktivnu dostupnost i razvoj informacionih sistema. U: Arhuska Konvencija u pravu i praksi Republike Srbije (ur. Slavko Bogdanović). Misija OEBS u Srbiji, Beograd, Društvo za politiku i pravo životne sredine Equilibrium Srbija, Novi Sad, 45-63. ISBN: 978-86-85207-89-1

**2.2.11. Рад у водећем часопису националног значаја (M51) - (1 x 1.67 = 1.67):**

123. Lenhardt, M., Hegediš, A., Mićković, B., Višnjić Jeftić, Ž., Smederevac, M., **Jarić, I.**, Cvijanović, G. and Gačić, Z. (2006). First record of the North American paddlefish (*Polyodon spathula* Walbaum, 1792) in the Serbian part of the Danube River. *Archives of Biological Sciences* **58** (3), 27P-28P. Нормирани поени =  $2/1.2 = 1.67$

**2.2.12. Рад у научном часопису (M53) - (1 x 1 = 1):**

124. Lenhardt, M., Gačić, Z., Vuković-Gačić, B., Poleksić, V., Višnjić-Jeftić, Ž., Kolarević, S. and **Jarić, I.** (2011). Ecological status of Serbian rivers based on an ichthyological assessment. *Studia Universitatis "Vasile Goldiș", Seria Științele Vieții* **21** (4), 855-860.

**2.2.13. Одбрањена докторска дисертација (M71) - (1 x 6 = 6):**

125. **Jarić, I.** (2010). Histopatološke promene i akumulacija teških metala u populacijama kečige (*Acipenser ruthenus* L.) u Dunavu. Univerzitet u Beogradu, pp. 97.



#### **2.2.14. Одбрањен магистарски рад:**

126. **Jarić, I.** (2009). Population viability analysis of the Danube sturgeon populations. Master Programme in Management of Biological Diversity (2007-2009), Swedish Biodiversity Centre, Swedish University of Agricultural Sciences (SLU) and Uppsala University, Uppsala, Sweden.

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127. **Jarić, I.** (2008). Carpathian biodiversity. Workbook for education for sustainable development in the Carpathian Eco-Region. Ecological society “Endemit”, Belgrade, Carpathian EcoRegion Initiative, Bratislava, 20-24.
128. Erg, B. and **Jarić, I.** (2006). Study on the Danube Waterway Traffic in Serbia. Study developed for World Wildlife Fund, Danube-Carpathian Programme (WWF DCP), pp. 11.
129. **Jarić, I.** and Knežević, J. (2006). Report on Danube River Basin Floods and Restoration Potential Sites for Flood Retention in Serbia. Report developed for World Wildlife Fund, Danube-Carpathian Programme (WWF DCP), pp. 6.
130. Balatskiy, K., Baltzer, M., Baumgartner, C., Beckmann, A., Bercsényi, M., Bogdanović, S., Bratrich, C., Brenner, T., De Meulenaer, T., Dick, G., Dobrovlov, I., Erefej, L., Guti, G., Hochleithner, M., **Jarić, I.**, Jula, G., Keresztessy, K., Klindová, A., Koller-Kreimel, V., Lenhardt, M., Liska, I., Maereanu, D., Maereanu, M., Mancic, S., Masár, J., Mészáros, J., Moreau, D., Navodaru, I., Obrdlik, P., Pannonhalmi, M., Ivanova, P. P., Pintér, K., Raymakers, C., Reeder, D., Rideg, A., Ring, T., Rosenthal, H., Sallai, Z., Schiemer, F., Schmedtje, U., Sigmund, G., Simonović, P., Steiner, A., Tsekov, A., Unfer, G., Voloshkevych, A., Vukovich, Z., Wiener, S., Zessner-Spitzenberg, M., Zinke, A. and Zlatic-Jugovic, J. (2006). Action Plan for the conservation of Sturgeons (Acipenseridae) in the Danube River Basin. Bloesch, J., Jones, T., Reinartz, R. and Striebel, B. (Eds.). Convention on the Conservation of European Wildlife and Natural Habitats (Bern Convention), *Nature and Environment* 144, pp. 122.
131. Lenhardt, M., Hegediš, A. i **Jarić, I.** (2005). Akcioni plan upravljanja jesetarskim vrstama u ribolovnim vodama Republike Srbije. Institut za Biološka Istraživanja “Siniša Stanković”, pp. 21. Urađeno za potrebe Ministarstva za nauku i zaštitu životne sredine Republike Srbije.

**Табела 1.** Целокупни научни резултати досадашњег рада др Ивана Јарића:

<b>Ознака групе</b>	<b>Укупан број радова</b>	<b>Вредност индикатора</b>	<b>Укупна вредност</b>	<b>Нормирани поени</b>
M13	1	7	7	7
M14	3	4	12	12
M21a	9	10	90	73.89
M21	19	8	152	147.67
M22	9	5	45	44.17
M23	19	3	57	54.78
M25	4	1.5	6	6
M29a	2	1.5	3	3
M33	15	1	15	14.37
M34	39	0.5	19.5	17.64
M45	1	1.5	1.5	1.5
M51	1	2	2	1.67
M53	3	1	3	2.83
M71	1	6	6	6
<b>Укупно</b>			<b>419</b>	<b>392.52</b>

**Табела 2.** Вредности коефицијента М након покретања поступка за избор др Ивана Јарића у звање виши научни сарадник:

<b>Ознака групе</b>	<b>Укупан број радова</b>	<b>Вредност индикатора</b>	<b>Укупна вредност</b>	<b>Нормирани поени</b>
M21a	7	10	70	53.89
M21	11	8	88	85
M22	1	5	5	5
M23	14	3	42	39.78
M25	2	1.5	3	3
M29a	2	1.5	3	3
M33	4	1	4	3.66
M34	20	0.5	10	8.99
M53	2	1	2	1.83
<b>Укупно</b>			<b>227</b>	<b>204.15</b>

### 3. АНАЛИЗА РАДОВА ПУБЛИКОВАНИХ У ПЕРИОДУ НАКОН СТИЦАЊА ПРЕТХОДНОГ ЗВАЊА

Из наведеног списка се види да је др Иван Јарић аутор/коаутор 69 научних радова (63 у међународним часописима, 1 у домаћем научном часопису, 4 у међународним монографијама и 1 у монографији националног значаја), као и 54 саопштења на међународним скуповима, од чега је 15 публиковано у целини а 39 у конгресним зборницима у форми резимеа. Поред тога, др Иван Јарић је и аутор/коаутор 5 стручних радова (елабората). У периоду након покретања поступка за стицање звања виши научни сарадник, др Иван Јарић је био аутор/коаутор 37 научних радова у међународним часописима, као и 24 саопштења на међународним скуповима.

Преглед објављених радова показује да је научноистраживачки рад др Ивана Јарића обухватио истраживања из неколико области. Према ужим истраживачким областима којима припадају, публикације др Ивана Јарића могу се сврстати у следеће категорије:

1. екологија и заштита јесетарских врста
2. фактори и процеси угрожавања биодиверзитета
3. квантитативне анализе ризика истребљења угрожених врста
4. инвазивне врсте
5. привредни риболов и утицај на стабилност рибљих популација
6. токсиколошка истраживања стања водених екосистема и рибљих заједница у басену Дунава
7. Анализе научних трендова и друштвених токова у конзервационој биологији

На основу публикованих радова у периоду након стицања претходног научног звања, може се закључити да су јесетарске врсте представљале једну од централних области истраживања др Ивана Јарића. Резултатима истраживања ове групе риба припадају радови 10, 19-22, 27-30, 32, 38, 44-47, 49-53, 56, 57, 59, 60 и 62. У овим радовима су обрађена различита питања екологије јесетарских врста, стања њихових популација, основних фактора угрожавања и развоја адекватних мера њихове заштите и одрживог коришћења. Поред опште анализе стања популација јесетарских врста у сливу Дунава (радови 10, 22, 27, 30, 38), као и истраживања усмерених на популације јесетри у басену Елбе, Одре и Балтичког и Северног мора, које су спроведене током боравка др Ивана Јарића у Немачкој (радови 28, 29, 32, 47), такође су спроведене и студије усмерене на глобално стање јесетарских врста, постојећих метода управљања и активности везаних за истраживање и заштиту (радови 19, 20, 27, 45, 50, 62). Као посебно поље истраживања издвајао се развој популационих модела јесетри, анализа популационе вијабилности и вероватноће истребљења (10, 19, 28, 29, 32, 44).

Моделирањем података о улову сима (*Acipenser nuidiventris*) у Дунаву утврђено је да се ова врста може сматрати функционално истребљеном (рад 10). У радовима су приказани резултати развоја метода анализе вијабилности популација европске јесетре (*A. sturio*) и атлантске јесетре (*A. oxyrinchus*) у Елби и Одри (радови 28, 29, 32). Анализом су реконструисани историјски трендови риболова у

овим сливовима и идентификовани процеси који су довели до прелова и истребљења (29, 32). Развој мета-модела којим су обухваћене све постојеће врсте јесетри и харинги испитана је подложност ових врста риболовном притиску и утврђени кључни еколошки и биолошки параметри који чине испитане врсте подложне прелову (19).

Као посебна област истраживања кандидата, може се издвојити конзервациона биологија, у оквиру које се кандидат бавио различитим питањима везаним за факторе и процесе угрожавања биодиверзитета (радови 1, 4, 11, 35, 41, 55), а нарочито развојем квантитативних метода анализа ризика истребљења угрожених врста (радови 3, 10, 14, 17). У сарадњи са неколицином еминентних стручњака у области конзервационе биологије, кандидат је спровео анализу стања харизматичне мегафауне, узрока ишчезавања њихових популација, као и механизма за унапређење постојећег стања (1). Слична тема обрађена је и у раду 4, која представља резултат рада велике међународне групе истраживања, заједнички предвођене од стране кандидата и др Грегора Калинката. У овом раду, испитана је могућност примене концепта „flagship species“ и „umbrella species“ у заштити и управљању слатководним екосистемима (4). Кандидат се такође бавио и проблемом врста које су оквиру Црвене листе Међународне уније за заштиту природе (IUCN Red List) окарактерисане као таксони са недовољно података о угрожености (Data Deficient), и указао да су ове врсте у већини случајева натпросечно угрожене, и да су неопходне хитне мере адекватне анализе њиховог стварног статуса (11). У раду 35, кандидат је указао на проблем криптичног губитка функције врста и на узроке и механизме овог феномена који су занемарени у постојећој литератури.

Поред већ поменутих анализа вијабилности популација и развоја популационих модела угрожених врста, посебно поље истраживања др Ивана Јарића представљале су и методе одређивања вероватноће да је одређена врста ишчезла (3, 10, 14 и 17). У оквиру ових истраживања, кандидат је успоставио активну сарадњу са међународном групом истраживача и радио на развоју нових метода анализе у оквиру дате области, што је представљено у радовима 3, 10 и 17.

Значајан број радова обрађује и проблематику појаве, ширења и негативног дејства интродукованих инвазивних врста (радови 2, 16, 21, 43 и 46), глобалног феномена који представља све значајнији еколошки проблем у нашој земљи и у свету. У оквиру студије коју је спровела међународна група истраживача, испитан је и обрађен феномен “boom-bust” популационе динамике инвазивних врста (2, 43). Применом популационих модела извршена је анализа концепта демографске флексибилности и његовог доприноса инвазивности алохтоних врста, као и испитивање потенцијала дате методе за процену ризика (16). Од инвазивних врста, нарочито је детаљно испитан северноамерички веслонос (*Polyodon spathula*) и могућност његовог ширења у Европи.

У извесном броју публикација, кандидат је такође радио и на истраживањима комерцијалног риболова, мера управљања и утицаја рибарства на стабилност рибљих популација (радови 12, 31, 39, 54, 58 и 59). Студије су претежно биле усмерене на анализу рибарства и газдовања рибљим фондом у басену Дунава, као и анализе историјских података о улову у циљу утврђивања одрживости риболовног притиска.

Поред наведених области, кандидат је такође био ангажован и на токсиколошким истраживањима различитих врста риба у басену Дунава, као и општим анализама стања водених екосистема у Дунаву (радови 5, 7, 15, 23-26, 31, 33, 37, 40 и 61). У оквиру ове области истраживања нарочито се издвајају студије које представљају део дисертације Катарине Јовичић, којима кандидат руководи као ментор (радови 15, 23, 24, 31 и 37). Од испитиваних врста, нарочито су обрађени сом (*Silurus glanis*, радови 15, 23 и 40) скобаљ (*Chondrostoma nasus*, рад 5), мрена (*Barbus barbus*, радови 7 и 37) и кечига (*A. ruthenus*, радови 7 и 40). У радовима 7, 25, 26, 31 и 37 упоређени су нивои акумулације елемената у врстама различитих трофичких нивоа и еколошких карактеристика. Поред анализе концентрација тешких метала у различитим ткивима риба, такође су примењене и методе праћења хистопатолошких промена и генотоксичних ефеката (7, 25, 33 и 61).

Значајан део истраживања кандидата био је усмерен на истраживања анализе научних трендова и друштвених токова на пољу конзервационе биологије (радови 1, 4, 6, 8, 9, 13, 18, 34, 42, 48 и 64). Ова истраживања су између осталог обухватала библиометријске анализе развоја одређених научних области и идентификацији кључних проблема и недостатака у развоју (6, 13, 62), развоја метода библиометрије и анализе електронских извора података у оквиру праћења друштвених токова (“conservation culturomics”, радови 8, 13, 18, 42, и 48).

#### 4. ЦИТИРАНОСТ

Претраживањем електронских база података о научним публикацијама (Web of Science, Google Scholar), књига, магистарских теза, докторских дисертација и осталих извора, пронађени су следећи цитати за период 2002-2018. године, за публикације у којима је др Иван Јарић аутор или коаутор (закључно са 7. мајем 2018. године):

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## 5. ОЦЕНА САМОСТАЛНОСТИ КАНДИДАТА

Након избора у звање виши научни сарадник, др Иван Јарић је публикувао укупно 35 библиографских јединица у међународним часописима и то 7 радова М21а (сума ИФ=40.814), 11 радова М21 (сума ИФ=28.85), 1 рад М22 (ИФ=1.57), 14 радова М23 (сума ИФ=10.643) и 2 рада М25 (сума ИФ=18.918). Од избора у звање виши научни сарадник, кандидат је био први аутор у 14 публикација и последњи коаутор у 5 публикација, док је 2 рада објавио самостално. Последњи аутор је био у публикацијама у којима је први аутор био његов докторанд (3 публикације) или је руководио израдом рада заједно са првим аутором (2 публикације). Све то указује на висок степен учешћа у реализацији и идејном осмишљавању научно-истраживачких задатака, тј. у руковођењу научним задацима у оквиру текућих пројеката, доказујући притом способност и да укључи у рад и организује младе колеге. Др Иван Јарић је ментор у изради 1 (једне) докторске дисертације, кандидата Катарине Јовичић (одбрана дисертације у септембру 2018. године). Такође, кандидат је руководио деловима истраживања и био члан комисије за преглед и одбрану 2 (две) докторске дисертације: др Жељке Вишњић Јефтић и др Наде Ћосић.

У великом броју истраживања у којима је др Иван Јарић учествовао фаворизоване су мултидисциплинарне области истраживања. У својој каријери др Иван Јарић је развио значајан број квантитативних метода у области популационе екологије, конзервационе биологије и другим научним областима, и покренуо нове линије истраживања, како у матичним институцијама у којима је до сада био ангажован (Институт за мултидисциплинарна истраживања Универзитета у Београду, Лајбниц Институт за екологију копнених вода и рибарство у Берлину и Институт за хидробиологију Биолошког центра Академије наука Републике Чешке), тако и у другим истраживачким групама са којима је успоставио трајну сарадњу.

О самосталности и афирмисаности кандидата сведоче и чланства у научним већима, уређивачким одборима међународних часописа и научним одборима међународних конференција, као и престижне међународне награде за научни рад (приказано у даљем тексту). Поред наведеног, кандидату је додељена J. E. Purkyně Fellowship, престижна стипендија коју додељује Академија наука Републике Чешке за искусне истраживаче који су у процесу оснивања сопствене истраживачке групе.

### **5.1. Пет најзначајнијих научних остварења др Ивана Јарића**

Међу пет најзначајнијих научних остварења др Ивана Јарића, у периоду од последњег избора у научно звање, истичу се следеће научне публикације у којима је кандидат био главни носилац истраживања као први аутор, или организовао истраживање као ментор и тиме остварио битан ауторски допринос.

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## 6. КВАЛИТАТИВНИ ПОКАЗАТЕЉИ НАУЧНОГ АНГАЖМАНА И ДОПРИНОСА УНАПРЕЂЕЊУ НАУЧНОГ РАДА

### 6.1. ПОКАЗАТЕЉИ УСПЕХА У НАУЧНОМ РАДУ

#### 6.1.1. Награде и стипендије

Др Иван Јарић је у досадашњој каријери примио следеће награде и стипендије:

2018-2022: The J. E. Purkyně Fellowship, Academy of Sciences of the Czech Republic

2015: Danubius Young Scientist Award, Austrian Federal Ministry for Science, Research and Economy, and the Institute for the Danube Region and Central Europe

2014-2017: Georg Forster Research Fellowship (HERMES), Alexander von Humboldt Foundation

2011(Jan)-2012(Jan): IGB Fellowship in Freshwater Science, Leibniz-Institute of Freshwater Ecology and Inland Fisheries, Berlin, Germany

2007-2009: Swedish International Development Cooperation Agency (Sida), Masters Programme in Management of Biological Diversity, Swedish Biodiversity Centre (CBM), Uppsala, Sweden

### **6.1.2. Чланства у уређивачким одборима часописа**

Др Иван Јарић је од 2017. године ангажован као члан уређивачког одбора (Section Editor) међународног часописа Turkish Journal of Fisheries and Aquatic Sciences (M23, 2016, Fisheries 42/50, IF: 0.484).

Евиденција о досадашњим активностима уређивања наведеног часописа доступна је на профилу кандидата у електронској бази Publons:  
<https://publons.com/author/635036/ivan-jaric#profile>

### **6.1.3. Рецензије научних радова и пројеката**

Током свог досадашњег рада, др Иван Јарић је био рецензент научних радова за већи број међународних научних часописа:

Conservation Biology	Biological Conservation
Global Change Biology	Nature Sustainability
Journal of Theoretical Biology	Ecological Modelling
Conservation Letters	Endangered Species Research
Canadian Journal of Fisheries & Aquatic Sciences	Oecologia
Fish and Fisheries	Science and Engineering Ethics
PLOS ONE	PeerJ
Environmental Management	Environmental Biology of Fishes
Fisheries Research	Journal of Applied Ichthyology
Science of the Total Environment	Ecological Engineering
Environmental Monitoring and Assessment	Tissue and Cell
Environmental Science and Pollution Research	Analytical Letters
Fish Physiology and Biochemistry	Archives of Biological Sciences
Ecotoxicology and Environmental Safety	Slovenian Veterinary Research
Biologia	African Journal of Biotechnology
Reviews in Fisheries Science & Aquaculture	Saudi Journal of Biological Sciences
Advances in Environmental Research	

Према евиденцији у електронској бази Publons, кандидат је до урадио рецензије 82 научна рада у 33 међународна часописа. Евиденција о досадашњем раду на рецензијама доступна је на профилу кандидата у наведеној електронској бази:  
<https://publons.com/author/635036/ivan-jaric#profile>

Кандидат је такође био ангажован и као рецензент пројеката од стране следећих организација:

1) Greater Atlantic Regional Office of NOAA Fisheries (National Marine Fisheries Service), USA;

2) The Rufford Small Grants for Nature Conservation, the Rufford Foundation, UK.

Такође је урадио и рецензију Националног извештаја Републике Србије за Светску конференцију о одрживом развоју „Рио + 20“ (Рио де Жанеиро, 20-22. јун 2012. године) под називом „Студија о достигнућима и перспективама на путу ка зеленој економији и одрживом расту у Србији“, израђене од стране Министарства животне средине, рударства и просторног планирања, Програма Уједињених



нација за развој (UNDP) и Програма Уједињених нација за животну средину (UNEP).

#### **6.1.4. Чланства у радним телима међународних конференција**

Др Иван Јарић је био члан научног одбора међународне конференције EIFAAC International Symposium "Adaptation of inland fisheries and aquaculture to climate change", организованог у периоду од 3. до 6. септембра 2017. године у месту Старе Јаблонки у Пољској од стране European Inland Fisheries and Aquaculture Advisory Commission (EIFAAC), Food and Agriculture Organization of the United Nations (FAO). Листа чланова научног одбора доступна је на интернет страници Симпозијума:

<https://eifaac2017.infish.com.pl/content/scientific-committee>

Др Иван Јарић ће такође учествовати на конференцији 5<sup>th</sup> European Congress of Conservation Biology (ECCB 2018), која ће у организацији Society for Conservation Biology (SCB) бити у периоду од 12. до 15. јуна 2018. године одржана у месту Jyväskylä у Финској, где ће кандидат на позив организатора бити један од чланова председавајућих (co-chair) симпозијума "Conservation culturomics":

<https://conbio.org/mini-sites/eccb2018>

#### **6.1.5. Учешће у пројектима везаним за креирање стратешких докумената националног и супра-националног нивоа и база података за спровођење јавних политика**

Др Иван Јарић је у својој досадашњој каријери био ангажован у изради већег броја стратешких докумената и база података за спровођење јавних политика:

2016 - : Члан међународног тима за спровођење процене статуса угрожености северно-америчких врста јесетри, у оквиру Црвене листе Међународне уније за заштиту природе (IUCN Red List)

2012: Координатор пројекта "Израда националног метарегистра за информације о животној средини", Организација за европску безбедност и сарадњу (ОЕБС), Мисија за Србију

2010(нов) –2011(јан): Национални експерт у оквиру пројекта "Национални акциони план за имплементацију Архуске Конвенције", Организација за европску безбедност и сарадњу (ОЕБС), Мисија за Србију

2010 (јун – окт): Консултант за биодиверзитет, геодиверзитет и предеони диверзитет, у оквиру пројекта "Завршетак израде Националне стратегије одрживог коришћења природних ресурса и добара (НСОКПРД)", Министарство животне средине и просторног планирања Републике Србије

2005: "Акциони план управљања јесетарским врстама у риболовним водама Републике Србије ", Министарство за науку и заштиту животне средине Републике Србије

### **6.1.6. Чланство у међународним научним друштвима**

Кандидат је члан више међународних експертских и научних друштава: Society for Conservation Biology (SCB), World Sturgeon Conservation Society (WSCS), European Association of Fish Pathologists (EAFP), Carpathian EcoRegion Initiative (CERI) и Српско биолошко друштво.

### **6.2. ДОПРИНОС РАЗВОЈУ УСЛОВА ЗА НАУЧНИ РАД И МЕЂУНАРОДНА САРАДЊА**

Др Иван Јарић је радио или ради на три пројекта основних истраживања Министарства за просвету, науку и технолошки развој Републике Србије:

1) Развој високопродуктивне аквакултуре и њена примена у заштити и унапређењу рибљих ресурса, пројекат 1354 (2003–2005)

2) Истраживања диверзитета, заштите и одрживог коришћења фауне риба, као битних компоненти за развој стратегије интегралног управљања воденим ресурсима Србије, пројекат 143045 (2006-2010)

3) Рибе као биоиндикатори стања квалитета отворених вода Србије, пројекат 173045 (2011- )

Кандидат је такође био учесник и више научноистраживачких пројеката које су финансирани Министарство за науку, Министарство животне средине и просторног планирања Републике Србије и Секретаријат за заштиту животне средине града Београда:

1) Стандардизација и хармонизација техника за израду популационих студија риба из фамилије јесетри и вештачко размножавање (2006–2008)

2) Еколошка и рибарствена истраживања вода на подручју СРП „Увац“ (2007–2008)

3) Риболовни ресурси у Дунаву и Сави на територији Београда – стање, валоризација и развој мониторинг програма (2013-2014)

Поред наведеног, такође је учествовао и у међународном пројекту "Sustainable use of sterlet and development of sterlet aquaculture in Serbia and Hungary" (HU-SCG/06/02/155, 2007-2008), који је био финансиран од стране Европске агенције за реконструкцију.

Др Иван Јарић је током своје истраживачке каријере допринео успостављању трајне сарадње са научницима и истраживачким групама из више земаља, а нарочито из Немачке, Велике Британије, Француске, и САД, о чему сведочи и значајан број заједничких публикација.

Током ангажмана на Лајбниц Институту за екологију копнених вода и рибарство у Берлину, током 2011. и у периоду од 2014. до 2017. године, кандидат је успоставио значајну и продуктивну сарадњу са др Јорн Геснером (Jörn Gessner, радови 6, 9, 10, 11, 13, 19-21, 27-29, 32, 38, 44-47, 49, 50, 52, 59, 60, 62, 72, 92, 103), као и са др Грегор Калинкатом (Gregor Kalinkat, радови 4, 41, 42, 48) и др Јонатан Јешкеом (Jonathan Jeschke, радови 2, 4, 43). Током боравка на наведеном институту, др Иван Јарић је радио на развоју популационих модела јесетарских врста, а нарочито европске јесетре (*A. sturio*), на основу којих је у сарадњи са

истраживачима овог Института извршена анализа текућих пројеката реинтродукције и обнове популације ове врсте у реци Елби у Немачкој.

Такође, кандидат је од 2015. године укључен у међународну експертску мрежу Invasion Dynamics Network (InDyNet), чијим активностима руководи др Јонатан Јешке. Поред учешћа на радионицама 2015., 2016. и 2018. године и доприноса заједничким публикацијама (радови 2 и 43), др Иван Јарић такође руководи припремом две заједничке публикације учесника мреже, које ће бити послате на разматрање у еминентне часописе (Trends in Ecology and Evolution и Frontiers in Ecology and the Environment) на позив уредника наведених часописа. У припреми ових публикација учествује међународна група од преко 30 врхунских експерата из области биологије инвазивних врста.

На пољу истраживања научних трендова и друштвених токова у конзервационој биологији, кандидат је успоставио трајну сарадњу са др Франк Куршампом (Franck Courchamp, радови 1, 9, 11, 13, 42), др Грегор Калинкатом, др Рикардо Кореиом (Ricardo Correia, радови 8, 42), као и групом истраживача са Универзитета у Оксфорду. У оквиру ове сарадње, др Иван Јарић је у периоду од новембра до децембра 2015. године боравио као гостујући истраживач у истраживачкој групи Франк Куршампа (CNRS, University of Paris-Sud, Orsay, Paris, France).

У оквиру истраживања везаних за развој метода анализе вероватноће истребљења ретких и угрожених врста, кандидат је успоставио трајну сарадњу са др Дејвид Робертсом (David L. Roberts, радови 3, 9, 11, 13, 14, 17, 42) и др Ендрју Соловом (Andrew R. Solow, радови 3, 9, 10). У оквиру ових истраживања, кандидат је током септембра 2014. године боравио је као гостујући истраживач у САД на позив др Ендрју Солова (Woods Hole Oceanographic Institution, Woods Hole, MA).

На пољу истраживања везаних за јесетарске врсте и популационе анализе вијабилности кандидат је такође успоставио сарадњу са истраживачима из Шведске (радови 68, 81, 83, 84, 87, 110), као и са истраживачима са Института Цемагреф (Cemagref) из Бордоа у Француској (радови 27, 47, 60, 62).

Кандидат је такође иницирао и успостављање сарадње Одсека за природне ресурсе и животну средину Института за Мултидисциплинарна истраживања и Одељења за биологију и екологију риба Лајбниц Института за екологију копнених вода и рибарство у Берлину, у оквиру међународног пројекта BioFresh – Биодиверзитет слатководних екосистема: стање, трендови, притисци и приоритети заштите.

Од новембра 2017. године, др Иван Јарић је запослен на Институту за хидробиологију, Биолошког центра Академије наука Републике Чешке, где спроводи истраживања везана за екологију риба путем метода акустичне телеметрије. Кандидат је покренуо успостављање европске мреже истраживача и истраживачких група које су ангажоване у области телеметрије риба. Поред заједничких публикација које су у припреми у оквиру ове мреже, која тренутно укључује истраживачке групе из 7 земаља, кандидат такође ради на припреми пројеката који ће омогућити интензивнију сарадњу.

## 7. ОЦЕНА УСПЕШНОСТИ РУКОВОЂЕЊА НАУЧНИМ РАДОМ

Др Иван Јарић је веома успешно руководио пројектним задацима везаним за развој метода мониторинга и примене анализе коцентрација тешких метала, као и развој популационих модела риба, у оквиру пројекта ОИ173045 „Рибе као биоиндикатори стања квалитета отворених вода Србије“ (2011- ).

Током боравка у иностранству, кандидат је руководио или руководи следећим пројектима:

1) Population viability analysis of the European Atlantic sturgeon (*Acipenser sturio*) and the Atlantic sturgeon (*A. oxyrinchus*), as a tool for the evaluation of their restoration activities in Germany, Pr.No. MB15204, Leibniz-Institute of Freshwater Ecology and Inland Fisheries, Berlin, Germany (јан 2011 – јан 2012)

2) Assessing conservation and management strategies for the European sturgeon (*Acipenser sturio*) and Baltic sturgeon (*A. oxyrinchus*) in Europe, Alexander von Humboldt Stiftung & Leibniz-Institute of Freshwater Ecology and Inland Fisheries, Berlin, Germany (2014-2017)

3) Fish spatial ecology, behaviour and management - use of telemetry techniques, Czech Academy of Sciences, Czech Republic (2018-2022)

У оквиру J. E. Purkyně Fellowship коју додељује Академија наука Републике Чешке, кандидат је од јануара 2018. године ангажован на успостављању сопствене истраживачке групе на Институту за хидробиологију, Биолошког центра Академије наука Републике Чешке.

У периоду од априла до децембра 2012. године, кандидат је руководио пројектом израде Националног метарегистра за информације о животној средини, спроведеног од стране OEBS Мисије за Србију, Агенције за заштиту животне средине и Министарства енергетике, развоја и заштите животне средине Републике Србије, док је 2010. године у оквиру пројекта "Завршетак израде Националне стратегије одрживог коришћења природних ресурса и добара (НСОКПРД)" Министарства животне средине и просторног планирања Републике Србије руководио пројектним задатком везаним за биодиверзитет, геодиверзитет и предеони диверзитет.

У периоду од 2013. до 2014. године, др Иван Јарић је вршио дужност члана Научног већа Института за мултидисциплинарна истраживања Универзитета у Београду.

## 8. ДЕЛАТНОСТ У ОБРАЗОВАЊУ И ФОРМИРАЊУ НАУЧНИХ КАДРОВА

Др Иван Јарић је 10. марта 2017. године именован као ментор у изради докторске дисертације Катарине Јовичић, под називом „Рибе као биоиндикатори загађења акватичних екосистема на подучју Београда“, чија је одбрана на Биолошком факултету Универзитета у Београду планирана у септембру 2018. године. Кандидат је дао значајан допринос реализацији истраживања докторанда, о чему сведочи значајан број заједничких публикација проистекао из дисертације (радови 15, 23, 24, 37, 54, 58)

Кандидат је такође био члан Комисије за преглед и оцену докторске дисертације др Жељке Вишњић Јефтић (именован као члан Комисије 15. јула 2011. године), под насловом „Еколошка и токсиколошка истраживања црноморске харинге (*Alosa immaculata* Bennet, 1835) у Дунаву у Србији“, одбрањене 18. јуна 2012. године на Биолошком факултету Универзитета у Београду (заједнички рад 75), као и докторске дисертације др Наде Ћосић (именован као члан Комисије 15. маја 2015. године), под називом „Вијабилност популација текунице *Spermophilus citellus* (L., 1766) на подручју Србије“, одбрањене 17. септембра 2015. године на Биолошком факултету Универзитета у Београду (заједнички рад 55).

## 9. КВАНТИТАТИВНА ОЦЕНА РЕЗУЛТАТА НАУЧНО-ИСТРАЖИВАЧКОГ РАДА

Квантитативна оцена резултата научно-истраживачког рада др Ивана Јарића дат је у табелама 3 и 4:

**Табела 3.** Укупне вредности коефицијента М за период 2004-2018. година др Ивана Јарића, према категоријама прописаним у Правилнику за област природно-математичких и медицинских наука за звање научни саветник.

Категорија радова	Потребан минимум за звање научни саветник	Остварено од покретања поступка за претходни избор у звање	Остварено – целокупни рад
<b>М10+М20+М31+М32 +М33+М41+М42</b>	<b>50</b>	<b>193.33</b>	362.88
<b>М11+М12+М21+М22 +М23</b>	<b>35</b>	<b>183.67</b>	320.51
<b>УКУПНО</b>	<b>70</b>	<b>204.15</b>	392.52

**Табела 4.** Параметри квалитета часописа (укупни импакт фактор публикованих часописа).

Период	Укупни импакт фактор
До покретања избора у претходно звање	44.490
Након покретања избора у претходно звање	100.795
<b>УКУПНО</b>	<b>145.285</b>

## 8. ЗАКЉУЧАК И ПРЕДЛОГ

На основу детаљног разматрања укупног научно-истраживачког рада др Ивана Јарића, Комисија са задовољством констатује да је имала прилику да анализира изузетан научни допринос једног истраживача, чији су резултати објављени у квалитетним и реномираним међународним и домаћим научним часописима и саопштени на научним скуповима у земљи и иностранству. Др Иван Јарић је својим досадашњим радом показао да је реномирани научни радник те да испуњава све формалне и суштинске услове за избор у звање научни саветник.

Научно-истраживачка делатност др Ивана Јарића је изразито мултидисциплинарна и односи се на природно-математичке науке са истакнутим резултатима у биолошким наукама. Посебне резултате кандидат је показао у области примењене математике и статистике у биологији, у теоријским и експерименталним радовима, а нарочито на пољу популационе екологије и конзервационе биологије.

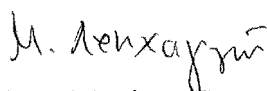
О изузетности досадашњих резултата кандидата сведочи и чињеница да је кандидат остварио готово троструко већи број бодова у оквиру Коефицијента М од оног који је прописан за стицање звања виши научни сарадник (204.15 бодова у односу на прописаних 70), као и то да је већину остварених бодова, у периоду од стицања претходног научног звања, кандидат остварио публикавањем радова у врхунским међународним часописима (M21a и M21, 138.89 бодова у односу на укупних 204.15).

На изузетност досадашњих публикација кандидата указује и изузетно високи укупни скор импакт фактора (145.3), од чега већи део (100.8) потиче из периода након стицања претходног звања. Поред тога, у оквиру истраживања из којих су наведене публикације проистекле, кандидат је најчешће учествовао у својству руководиоца истраживања, о чему сведочи чињеница да је на половини радова из наведених категорија кандидат био присутан као први аутор. Кандидат је такође остварио успешну сарадњу са бројним истраживачима, истраживачким групама и

институцијама из иностранства и допринео унапређењу међународне научне сарадње матичне институције.

Ценећи научни допринос кандидата и критеријуме у Правилнику о поступку и начину вредновања научноистраживачких резултата Министарства науке, Комисија предлаже Научном већу Института за мултидисциплинарна истраживања да прихвати овај реферат и предложи избор *др Ивана Јарића* у научно звање *научни саветник*.

#### КОМИСИЈА



1. др Мирјана Ленхардт  
научни саветник  
Институт за биолошка истраживања  
„Синиша Станковић“



2. др Зоран Гачић  
научни саветник  
Институт за мултидисциплинарна  
истраживања



3. др Александар Калаузи  
научни саветник  
Институт за мултидисциплинарна  
истраживања

**Табела 3.** Укупне вредности коефицијента М за период 2004-2018. година др Ивана Јарића, према категоријама прописаним у Правилнику за област природно-математичких и медицинских наука за звање научни саветник.

<b>Категорија радова</b>	<b>Потребан минимум за звање научни саветник</b>	<b>Остварено од покретања поступка за претходни избор у звање</b>	<b>Остварено – целокупни рад</b>
<b>М10+М20+М31+М32 +М33+М41+М42</b>	<b>50</b>	<b>193.33</b>	362.88
<b>М11+М12+М21+М22 +М23</b>	<b>35</b>	<b>183.67</b>	320.51
<b>УКУПНО</b>	<b>70</b>	<b>204.15</b>	392.52