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Education

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| Ph.D. | University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture - FMENA, <i>The analysis of UV irradiation based methods for degradation of organic matter in water</i> , 2002 |
| M.S. | University of Zagreb, FMENA, <i>Possible technologies for organic matter removal from water in Northern Croatia</i> , 1998 |
| B.S. | University of Zagreb, FMENA, <i>Conceptual design of an international river water treatment plant for drinking purposes</i> , 1993 |

Academic Experience

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| 2011 – | Associate Professor at FMENA, University of Zagreb UNIZAG |
| 2005 – 2010 | Assistant Professor, FMENA UNIZAG |
| 1993 – 2005 | Research Assistant, FMENA UNIZAG |

Scholarships and Awards

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| 2011 | Medal of FMENA for the achievements in development and promotion of the Faculty |
| 1993 | Rector's Prize for the best student article |

Position

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| 2021 – | Chair of Anti-Corruption Committee of City Assembly of the City of Zagreb |
| 2021 – | Member of City Assembly of the City of Zagreb |
| 2020 | Chairperson of Agriculture Committee of Croatian Parliament |
| 2017 – 2020 | Member of Croatian Parliament |
| 2016 – 2017 | Minister of Environment and Energy, Government of the Republic of Croatia |
| 2015 – 2016 | Minister of Environmental Protection, Government of the Republic of Croatia |
| 2010 – 2016 | Head of the Chair of Environmental Protection and Water Treatment Technology of the FMENA |
| 2007 – 2010 | Croatian expert delegate in the EU FP7 Programme Committee, theme environment |
| 2000 – 2009 | Head of the Laboratory for water, fuels and lubricants of the FMENA |

Research and other projects

- 2007 – 2012, *Environmental acceptability and efficiency of modern water treatment processes* 120-1253092-3021, associate, Ministry of Science Education and Sports MSES

2011, *HORIZON 2020 CB programme*, funded by the European Commission, participation as trainer in the sub-regional training course "Solid Waste Management and tourism: the case of the eco-island Krk"

2002 – 2006, *Investigations of water treatment processes* 0120026, associate, MSES

2002 – 2007, *The construction of a pilot plant for the inactivation of organisms in ship's ballast water*, TP-01/0275-01, associate, MSES

Memberships

- Croatian Pan-European Union
- Croatian Water Pollution Control Society
- Croatian Mountain Rescue Service

Commissions, committees, boards and work groups

- Working Group for approval of ballast water treatment technology and certification of ships of the National Task Force for the implementation of the "GloBallast Partnership 2007-2012" project

Research Interests

Advanced oxidation processes in water treatment technology - UV, UV/O₃, high power ultrasonic radiation, Membrane filtration, Waste water treatment and reuse, Environmental impacts LCA methodology, Environmental management systems, Environmental waste management.

Additional information and notes

- Married and father of seven children

Recent Publications

A Scientific

1. Zebić Avdičević, Maja; Košutić, Krešimir; Dobrović, Slaven. Flux Decline Study of Tubular Ceramic and Flat Sheet UF Membranes in Textile Wastewater Treatment. *Chemical and biochemical engineering quarterly*, 33, 3 2019: 405-415
2. Zebić Avdičević, Maja; Košutić, Krešimir; Dobrović, Slaven. Performance evaluation of different membrane types in the textile mercerization wastewater treatment. *Water and environment journal*. 33, 2 2019: 203-213
3. Capjak, I., Zebić Avdičević, M., Dutour Sikirić, M., Domazet Jurašin, D., Amela Hoznić, A., Pajić, D., Dobrović, S., Goessler, W., Vinković Vrček, I. *Behavior of silver nanoparticles in wastewater: systematic investigation on the combined effects of surfactants and electrolytes in the model systems*. // *Environmental Science: Water Research and Technology*. 4 2018: 2146-2159.
4. Zebić Avdičević, M., Košutić, K., Dobrović, S. *Effect of operating conditions on the performances of multichannel ceramic UF membranes for textile mercerization wastewater treatment*. // *Environmental Technology*. 38 2017, 1; 65-77
5. Gracin, L., Režek Jambrak, A., Juretić, H., Dobrović, S., Barukčić, I., Grozdanović, M., Smoljanić, G. *Influence of high power ultrasound on Brettanomyces and lactic acid bacteria in wine in continuous flow treatment*. // *Applied acoustics*. 2015. Accepted for publication
6. Milić, M., Leitinger, G., Pavičić, I., Zebić Avdičević, M., Dobrović, S., Goessler, W., Vinković Vrček, I. *Cellular uptake and toxicity effects of silver nanoparticles in mammalian kidney cells*. // *Journal of Applied Toxicology*. 35 2015; 581-592.
7. Šimunek, M., Režek Jambrak, A., Dobrović, S., Herceg, Z., Vukušić, T. *Rheological properties of ultrasound treated apple, cranberry and blueberry juice and nectar*. // *Journal of food science and technology*. 1 2013; 1-17.
8. Dobrović, S., Juretić, H., Ljubas, D., Vinković Vrček, I., Zebić Avdičević, M., Milić, M., Kopjar, N., Nemet, I., *Genotoxicity and Effects of Nanosilver Contamination in Drinking Water Disinfection*, *Water Science and Technology: Water Supply*, 12 2012, 6; 829-836.

9. Juretić, H., Dobrović, S., Ružinski, N., Lovrić, J., Pećarević, M., Mikuš, J., Crnčević, M., Marčelja, E.J., Marijanović Rajčić, M., Širac, S., Cooper, W.J.; Grewell, D., van Leeuwen, J. *Pilot Studies of Ozonation for Inactivation of Artemia salina Nauplii in Ballast Water*. // Ozone: Science and Engineering. 33 2011, 1; 3-13.
10. Ljubas, D., Ćurković, L., Dobrović, S. *Photocatalytic degradation of an azo dye by UV irradiation at 254 and 365 nm.*, Transactions of FAMENA. 34 2010, 1; 19-28
11. Dobrović, S., Juretić, H., Ružinski, N. *Photodegradation of natural organic matter in water with UV irradiation at 185 and 254 nm: importance of hydrodynamic conditions on the decomposition rate*. // Separation Science and Technology. 42 2007, 7; 1421-1432.
12. Ljubas, Davor; Ružinski, Nikola; Dobrović, Slaven; Utjecaj redoslijeda primjene koagulanta i adsorbenta na smanjenje udjela prirodnih organskih tvari u jezerskoj vodi // Strojarstvo, 41 1999, 5,6; 191-200

B Professional

1. Dobrović, S., Zebić Avdičević, M., Roksandić, R. *Provjera radnih karakteristika ultrafiltracijske membrane pri obradi kišnice različite kvalitete* // 6. Hrvatska konferencija o vodama s međunarodnim sudjelovanjem - Hrvatske vode na investicijskom valu / Biondić, Danko; Holjević, Danko ; Vizner, Marija ur.. Zagreb, 2015. 1173-1182.
2. Dobrović, S., Ljubas, D., Džeko, A. *Analiza mogućnosti opskrbe otoka Lastova pitkom vodom korištenjem LCA metodologije An analysis of drinking water supply possibilities of island of Lastovo using LCA methodology*, 5th Croatian Water Conference With International Participation "Croatian Waters Facing The Challenge of Climate Changes", Opatija, Croatia, 18-21.May2011., Biondić, D.; Holjević, D.; Tropan, Lj. eds, Opatija: Hrvatske vode, 2011., 1031-1038
3. Dobrović, S., Sladoljev, D. *Ekološko gospodarenje otpadom. Environmental waste management*// Sustavi. 6 2010; 64-70.
4. Dobrović, S., Juretić, H., Ljubas, D., Smoljanić, G. *Sustavno laboratorijsko istraživanje kao preduvjet za odabir najprikladnijeg dezinfekcijskog sredstva: klor ili klorov dioksid?* // Aktualna problematika u vodoopskrbi i odvodnji / Beslić, Mile; Ban Dario ur..Velika Gorica : Revelin d.o.o., 2012. 81-88.
5. Dobrović, S., Blatarić, Z. *Značaj određivanja SDI indeksa za ocjenu kvalitete vode* // Zbornik radova - 9. međunarodno znanstveno-stručno savjetovanje Energetska i procesna postrojenja / Iljaš, Branko ur.. Zagreb: Energetika marketing d.o.o., 2010.
6. Dobrović, S., Juretić, H., Ljubas, D. *Ekonomski i ekološki aspekti recikliranja otpadne vode u industriji* // Zbornik radova - 9. međunarodno znanstveno-stručno savjetovanje Energetska i procesna postrojenja / Iljaš, Branko ur.. Zagreb: Energetika marketing d.o.o., 2010.
7. Dobrović, S., Juretić, H., Lerotić, T. *New waste management system on the island Krk, Croatia – Results of implementation of the curbside recyclables collection* // Sardinia 2007 Eleventh International Waste Management and Landfill Symposium - executive summaries / Cossu, Raffaello ; Diaz, Luis F. ; Stegman, Rainer ur.. Cagliari : Environmental Sanitary Engineering Centre, 2007.

C Research & consulting works under contractual bases since 2002

Naziv <i>Title</i>	Investitor <i>Investor</i>	Godina <i>Year</i>
1. Analiza sustava gospodarenja komunalnim otpadom otoka Krka <i>Study – survey of municipal waste management system for island Krk</i>	Ponikve Krk	2021
2. Analiza sustava gospodarenja komunalnim otpadom Donjeg Miholjca <i>Study – survey of municipal waste management system for island Krk</i>	Municipality Donji Miholjac	2021
3. Analiza sustava gospodarenja komunalnim otpadom Lovrana <i>Study – survey of municipal waste management system for municipality Lovran</i>	Municipality Lovran	2019

4.	Studija izvodljivosti za izgradnju sustava filtracije industrijske vode za potrebe Rafinerije Rijeka. <i>Feasibility study for filtration system for industrial water Rijeka Oil Refinery</i>	INA d.d.	2016
5.	Tehnološko rješenje zbrinjavanja komunalnog mulja s UPOV Slavonski Brod. <i>Design for municipal sludge management for municipality Slavonski Brod</i>	Municipality Slavonski Brod	2015
6.	Idejno tehnološko rješenje problema otpadnih voda tvornice konca Unitas d.d. <i>Process design of wastewater treatment plant of textile industry Unitas d.d.</i>	Unitas d.d. Zagreb	2015
7.	Idejno tehnološko rješenje gospodarenja vodama pogona za proizvodnju procesne opreme Pireko d.o.o. <i>Process design of process water and wastewater system of process equipment manufacturer Pireko Ltd.</i>	Pireko d.o.o. Oroslavlje	2015
8.	Studija - Ekološki zasnovan sustav gospodarenja komunalnim otpadom za grad Karlovac <i>Study – Ecologically based municipal waste management system for the city of Karlovac</i>	Grad Karlovac	2015
9.	Studija - Ekološki zasnovan sustav gospodarenja komunalnim otpadom za općinu Župa dubrovačka <i>Study – Ecologically based municipal waste management system for the municipality of Župa dubrovačka</i>	Općina Župa Dubrovačka	2014/ 2015
10.	Membransko pilot ispitivanje na sirovoj i otpadnoj vodi postrojenja Ponikve, krk – nadzor i izvještavanje <i>Supervision and reporting for the membrane filtration pilot testing on source water and wastewater of Ponikve plant, Krk</i>	Ponikve VODA, Krk	2014
11.	Studija - Ekološki zasnovan sustav gospodarenja komunalnim otpadom za grad Duga Resa <i>Study – Ecologically based municipal waste management system for town of Duga Resa</i>	LAG Vallis Colapis	2014
12.	VARIJANTNO IDEJNO RJEŠENJE uređaja za pročišćavanje vode izvorišta Ombla s intergacijom u distribucijski sustav grada Dubrovnika <i>Process design of Ombla water treatment Plant with variant solutions, Integration in water distribution system of Dubrovnik city</i>	Vodovod Dubrovnik	2014
13.	Studija - Ekološki zasnovan sustav gospodarenja komunalnim otpadom za grad Ozalj i općine Kamanje, Žakanje i Ribnik <i>Study – Ecologically based municipal waste management system for the town of Ozalj and Kamanje, Žakanje and Ribnik municipalities</i>	LAG Vallis Colapis	2014
14.	LCA ANALIZA SUSTAVA GOSPODARENJA OTPADOM OTOKA KRKA <i>Life-Cycle Assessment of Waste Management system for island Krk</i>	Ponikve EKO OTOK KRK, Krk	2014
15.	Pilot ispitivanje membranske filtracije na izvorištu Zvir, Rijeka – nadzor i izvještavanje <i>Supervision and reporting for the membrane filtration pilot testing on Zvir water source, Rijeka</i>	Vodovod Rijeka	2014

16.	Revizija elaborata zaštite okoliša – Glavni vodnogospodarski laboratorij Hrvatskih voda <i>Revision of the Environmental Protection Report – Central Water Management Laboratory of Croatian Waters</i>	Elektroprojekt Zagreb	2013
17.	Pilot ispitivanje membranske filtracije na izvoru Ombla, Dubrovnik– nadzor i izvještavanje <i>Supervision and reporting for the membrane filtration pilot testing on Ombla water source, Dubrovnik</i>	Vodovod Dubrovnik	2013
18.	Novelacija studije - Ekološki zasnovan sustav gospodarenja komunalnim otpadom na otoka Krka <i>Revision of the Study – Ecologically based municipal waste management system for island Krk</i>	Ponikve Krk	2013
19.	Studija - Ekološki zasnovan sustav gospodarenja komunalnim otpadom za otoke Cres i Lošinj <i>Study – Ecologically based municipal waste management system for islands Cres and Lošinj</i>	Vodovod i čistoća Cres Mali Lošinj	2013
20.	Idejni tehnološki projekt prerade otpadnih voda pogona za elektropoliranje nehrđajućih čelika <i>Process design for the wastewater treatment of stainless steel electro polishing plant</i>	Pronig d.o.o. Zadar	2012
21.	Studija - Ekološki zasnovan sustav gospodarenja komunalnim otpadom na grada Rijeke s okolicom <i>Study – Ecologically based municipal waste management system for city of Rijeka and its surroundings</i>	KD Čistoća Rijeka	2012-2013
22.	Stručno mišljenje o Idejnom projektu Ultrafiltracijskog uređaja za pročišćavanje voda izvora Ombla, Dubrovnik, 500 L/s <i>Expert report about Conceptual design Ombla Ultrafiltration water treatment Plant, Dubrovnik 500 L/s</i>	Vodovod Dubrovnik	2012
23.	Izvešće o LCA analizi patentiranog goriva HYDROGEN-INDUSTRIAL <i>REPORT on life-cycle assessment of patented fuel HYDROGEN-INDUSTRIAL</i>	Cor Brevis, Zagreb	2012
24.	Sudjelovanje u EU projektu HORIZON 2020 <i>EU project HORIZON 2020 CB programme, funded by the European Commission, participation as trainer in sub-regional training course “Solid Waste Management and tourism: the case of the eco-island Krk”</i>	HORIZON 2020 CB programme	2011
25.	Izvešće o ispitivanju primjenjivosti patentiranog goriva HYDROGEN-INDUSTRIAL <i>REPORT on Applicability of patented fuel HYDROGEN-INDUSTRIAL</i>	Cor Brevis, Zagreb	2011
26.	Vođenje i organizacija seminara Ekološki zasnovano gospodarenje komunalnim otpadom, 10.11.201., Zagreb <i>Management and organization of Seminar ecologically based waste management, Zagreb, October 10th, 2010</i>	-	2010
27.	Izrada matematičkog modela vodoopskrbnog sustava otoka Krka <i>Mathematical modelling of drinking water distribution system – Island Krk</i>	Ponikve Krk	2010

28.	Stručno mišljenje o kvaliteti sustava za desalinizaciju bočate vode reverznom osmozom Stara Baška <i>Expert report – Technical evaluation of reverse osmosis desalination plant Stara Baška</i>	Ponikve Krk	2010
29.	Stručno mišljenje o kvaliteti filtracijske ispune uređaja za obradu vode Ponikve i Jezero kod Njivica <i>Expert report – Technical evaluation of filtration materials for Ponikve and Jezero water treatment plants</i>	Ponikve Krk	2010
30.	Tehnološko rješenje prerade vode izvorišta Obrh, Ozalj <i>Water treatment design for the Obrh water source, Ozalj</i>	Komunalno Ozalj	2009
31.	Nacionalno izvješće - ENVIRONMENT –WBC-INCO.NET <i>National background report including the national research priorities for the field ENVIRONMENT –WBC-INCO.NET</i>	EC	2009
32.	Glavni tehnološki projekt Laboratorija Centralne vodne stanice Sikirevci <i>Main design of the Laboratory of Central water station Sikirevci</i>	Hidroprojekt-ing Zagreb	2009
33.	Glavni tehnološki projekt sustava za dezinfekciju Centralne vodne stanice Sikirevci <i>Main design of Central water station Sikirevci disinfection system</i>	Hidroprojekt-ing Zagreb	2009
34.	Tehnološki projekt sustava dezinfekcije Regionalnog vodoopskrbnog sustava istočne Slavonije <i>Design of disinfection system for Regional water supply system of Eastern Slavonia</i>	Vodovod Slavonski Brod	2008-2009
35.	Studija izvodljivosti – Korištenje vode iz akumulacijskog jezera za potrebe postrojenja kemijske pripreme vode u kotlovnici TDR Kanfanar <i>Feasibility study - Reuse of treated waste water for boiler water treatment facility in tobacco factory TDR Kanfanar</i>	TDR Kanfanar	2009
36.	Studija - Ekološki zasnovan sustav gospodarenja komunalnim otpadom na području Liburnije i zaleđa <i>Study – Ecologically based municipal waste management system for the Liburnia and the hinterland</i>	Hudec Plan Zagreb za kk: Komunalac Opatija	2008-2009
37.	Mišljenje o kvaliteti goriva na temelju ogrjevnog vrijednosti <i>Expert report – Fuel quality evaluation by heating value</i>	HAK – Hrvatski autoklub, Zagreb	2008
38.	Revizija Stručnog izvješća o gubicima vode na tri rashladna tornja u DIOKI, lokacija Zagreb <i>Revision of the Expert report on water losses in three cooling towers in DIOKI Zagreb</i>	Hrvatske vode	2008
39.	Elaborat – Tehnološke podloge uređaja za remineralizaciju vode <i>Conceptual design of water remineralization plant</i>	Timel Zagreb	2008
40.	Elaborat zaštite okoliša – Glavni vodnogospodarski laboratorij Hrvatskih voda <i>Environmental Protection Report – Central Water Management Laboratory of Croatian Waters</i>	Elektroprojekt Zagreb	2008

41.	Tehnološki Projekt Glavnog vodnogospodarskog laboratorija Hrvatskih voda <i>Design of the Central Water Management Laboratory of Croatian Waters</i>	Hrvatske vode - hidrotehnički objekti	2008
42.	Tehnološko rješenje postrojenja za desalinizaciju bočate vode reverznom osmozom Stara Baška, otok Krk <i>Conceptual design of reverse osmosis plant for brackish water desalination in Stara Baška, Island Krk</i>	Ponikve Krk	2008
43.	Revizija tehnološkog rješenja – Idejni projekt tehnološkog dijela sa zahvatom vode iz Lokvarskog jezera <i>Revision of the Conceptual design of Lokvarsko Lake water treatment plant</i>	Hrvatske vode	2007
44.	Tehnološko rješenje za problem pojave suspendiranih produkata korozije s vodene strane instalacije grijanja/hlađenja u poslovnom objektu Tiskare Kratis, Sveta Nedjelja <i>Conceptual design for suspended corrosion product formation problem on water side of the heating/cooling installation -Tiskara Kratis building, Sveta Nedelja</i>	TTI - Termotehničke instalacije Zagreb	2007
45.	Tehnološki projekt uređaja za pripremu pitke vode izvorišta Ribnjak, Vrbovsko <i>Design of drinking water treatment plant for the Ribnjak water source, Vrbovsko</i>	Hydroconsult d.o.o. Rijeka	2007
46.	Idejno tehnološko rješenje uređaja za pripremu vode crpilišta istočna Slavonija, kapaciteta 4 x 500 L/s <i>Conceptual design of central water treatment plant for eastern Slavonia region, capacity 4 x 500 L/s</i>	Hidroprojekt-ing Zagreb	2006
47.	Tehnološki projekt sustava za obradu otpadnih tehnoloških voda postrojenja za pripremu pitke vode grada Osijeka <i>Design of waste water treatment plant originated from drinking water treatment process for city Osijek</i>	Vodovod Osijek	2006
48.	Revizija tehnološkog rješenja – Tehnološko rješenje pripreme vode za piće izvorišta Ribnjak, Vrbovsko <i>Revision of the Conceptual design of Ribnjak water source treatment plant</i>	Hrvatske vode Rijeka	2006
49.	Tehnološki projekt pripreme čiste izvorske vode Punionice izvorske vode rijeke Krupe, kapaciteta 30 m ³ /h <i>Spring water Krupa treatment plant design for bottling facility</i>	Cedar Gračac	2006
50.	Stručno mišljenje o pristiglim ponudama za uređaj za pročišćavanje otpadnih voda „Centar“ Zadar <i>Expert report – Technical evaluation of bids for Zadar Waste water treatment plant</i>	Hidroprojekt-ing Zagreb	2006
51.	Revizija tehničke dokumentacije – usklađenost sa stratejskim dokumentima RH, ukupno 167 odlagališta otpada u RH <i>Revision of the project documentation for 167 municipal waste landfills in Croatia</i>	Fond za zaštitu okoliša i energetske učinkovitost	2005-2006
52.	Tehnološki projekt obrade rashladne vode u tercijarnom rashladnom krugu i priprema dodatne rashladne vode u okviru rashladnog sustava tiskarskog postrojenja tvrtke Aluflexpack <i>Design of cooling water treatment plant for printing house Aluflexpack</i>	Pebrant Zadar	2005

53.	Stručno mišljenje - Analiza problema nastanka taloga u kotlovima ENERGAN 2 i sustavu vodene pare Rafinerije nafte Sisak <i>Expert report – Causes of high-pressure boiler Scale formation accidental event in ENERGAN 2, Sisak oil refinery</i>	INA Rafinerija Sisak	2005
54.	STRUČNO MIŠLJENJE - Izbor i sastav hidrauličkih ulja i ulja za pneumatske uređaje <i>Expert report – important properties and appropriate selection of hydraulic and pneumatic oils</i>	RIVA GRUPA, Dugo Selo	2005
55.	Tehnološko rješenje kompostišta Treskavac, otok Krk <i>Design of composting facility Treskavac, the island of Krk</i>	Ponikve Krk	2005
56.	Elaborat – Optimalizacija sustava kemijske pripreme vode Kliničke bolnica Dubrava <i>Expert report – optimization of boiler and cooling water treatment for University hospital Dubrava</i>	Klinička bolnica Dubrava Zagreb	2005
57.	Idejno rješenje – Sustav taloženja linije 3 Vodovoda Osijek, kapaciteta 400 L/s <i>Conceptual design – Sedimentation system of waterworks Osijek treatment line 3, capacity 400 L/s</i>	Vodovod Osijek	2004
58.	Elaborat za raspis javnog natječaja - Oprema taložnika u Liniji 3 sustava za pripremu pitke vode Vodovoda – Osijek <i>Tender documentation - Sedimentation system of waterworks Osijek treatment line 3</i>	Vodovod Osijek	2004
59.	Glavni tehnološki projekt – Uređaj za pripremu pitke vode grada Vukovara, kapaciteta 350 L/s <i>Main design of drinking water treatment plant for the City of Vukovar, capacity 350 L/s</i>	Vodovod Vukovar	2004
60.	Idejno rješenje postrojenja za desalinizaciju bočate vode reverznom osmozom, Lastovo 2 <i>Conceptual design of desalination plant by reverse osmosis Lastovo 2</i>	Komunalac Lastovo	2004
61.	Tehnološko rješenje reciklažnog centra Treskavac, otok Krk <i>Design of recycling center /materials recovery facility/ Treskavac, Island of Krk</i>	Ponikve Krk	2004
62.	Tehnološki projekt sustava tlačnih filtara s aktivnim ugljenom kapaciteta 600 L/s - Postrojenje za pripremu pitke vode grada Osijeka <i>Design of activated carbon filtration plant - drinking water treatment plant for city of Osijek, capacity 600 L/s</i>	Vodovod Osijek	2004
63.	Tehnološki projekt postrojenja za pripremu pitke vode Ponikve, otok Krk, kapaciteta 200 L/s <i>Design of drinking water treatment plant Ponikve, island of Krk, capacity 200 L/s</i>	Ponikve Krk	2004
64.	Revizija Idejnog rješenja priprave vode za piće vodocrpilišta Topolje <i>Revision of the Topolje drinking water treatment conceptual design</i>	Baranjski vodovod Beli Manastir	2003
65.	Elaborat – Analiza onečišćenja sustava grijanja u zgradi gradskog poglavarstva i rješenje sanacije sustava, Grad Zagreb <i>Expert report – Causes of deposit buildup inside the centralized heating system of Zagreb city headquarters</i>	Grad Zagreb	2003

66.	Glavni projekt adaptacije crpne stanice visoka zona, Vodovod Dubrovnik <i>Adaptation design for high zone pumping station, Waterworks Dubrovnik</i>	Vodovod Dubrovnik	2003
67.	Tehnološki projekt - interni laboratorij za kontrolu kvalitete vode, Ponikve d.o.o. Krk <i>Design of the Water control laboratory, Waterworks Ponikve</i>	Ponikve Krk	2003
68.	Tehnološko rješenje povećanja kapaciteta obrade pitke vode vodovoda Dalj <i>Capacity upgrade design for Water treatment plant Waterworks Dalj</i>	Vodovod Osijek	2003
69.	Tehnološko rješenje – Priprema tehnološke vode korištenjem izvorišta Jezero kod Njivica – Dioki d.d., Omišalj <i>Industrial water treatment design for Jezero water source, Dioki co. Omišalj</i>	Ponikve Krk	2003
70.	Tehnološki nadzor pri izgradnji i puštanju u pogon postrojenja za pripremu pitke vode Slavonski Brod <i>Water treatment consultancy during the construction phase and startup of Drinking water treatment plant Slavonski Brod</i>	Hrvatske vode	1999-2003
71.	Studija - Ekološki zasnovan sustav gospodarenja komunalnim otpadom za otok Krk <i>Study – Ecologically based municipal waste management system for the Island Krk</i>	Ponikve Krk	2002
72.	Elaborat – Analiza problema nastajanja karbonatnih inkrustacija na uređaju za UV dezinfekciju pitke vode, vodoopskrbni sustav Omišalj, otok Krk <i>Expert report – Inhibition of Scale formation inside the UV disinfection units in drinking water distribution system Omišalj, island Krk</i>	Ponikve Krk	2002