

Curriculum vitae - Sanja Frka Milosavljević

Place of birth: Rijeka, Croatia
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Web: <http://www.irb.hr/eng/People/Sanja-Frka-Milosavljevic>
Career breaks: 01/2004-07/2005: maternity leave 1; 01/2012-02/2013: maternity leave 2

Education

07/2008 Ph.D in Oceanology, Faculty of Science, University of Zagreb, Zagreb, Croatia;
2001-2008 Postgraduate study of Oceanology, Faculty of Science, University of Zagreb, Zagreb, Croatia;
11/2000 Dipl. Ing. in Chemistry (M.Sc. equivalent); Department of Chemistry, Faculty of Science, University of Zagreb, Zagreb, Croatia;

Working positions

04/2018–to date: Senior researcher (2023), Senior research associate (2018), Research Associate (2012) at Ruđer Bošković Institute (RBI), Division for marine and environmental research (DMER), Laboratory for marine and atmospheric biogeochemistry (LMAB), Zagreb, Croatia
10/2014–10/2016: Research associate/postdoctoral student at National Institute of Chemistry, Analytical Chemistry Laboratory, Ljubljana, Slovenia
12/2012–04/2018: Research associate at RBI, DMER, Zagreb, Croatia
08/2008–12/2012: Senior research assistant, RBI, DMER, Zagreb, Croatia
02/2001–07/2008: Research assistant (PhD student), DMER. RBI, Zagreb, Croatia

Visits to international research institutes

- IRCELYON, Lyon, France, EUROCHAMP TNA, 2 weeks (2018)
- The National Institute of Chemistry, Analytical Chemistry Laboratory, Ljubljana, Slovenia, NEWFELPRO Marie Curie FP7-PEOPLE-2011-COFUND, 2 years, (2014–2016)
- University of Pannonia, Air Chemistry Group, Veszprém, Hungary, bilateral project; 3 weeks (2010, 2011)
- Centre for Environmental and Marine Studies, Atmospheric processes and modelling group, Aveiro, Portugal, STSM COST project; 1 month (2011)
- Alfred Wegener Institute for Polar and Marine Research, Marine chemistry group, Bremerhaven, Germany, DAAD project; 2 months (2008, 2009)
- University of Gdansk, Institute of Experimental Physics, Gdansk, Poland, Training work on scaling approach of surface pressure-area isotherms of surface films; 1 week (2009)
- Université de la Méditerranée, Centre d'Océanologie de Marseille, Marseille, France, Training and work on TLC/FID instrumentation for lipid analysis; 1 week (2007)
- University of Leeds, Department of Self-Organising Molecular Systems, Leeds, Great Britain, ALIS project and Royal Society project; 3 months (2003, 2006)
- University of Tromsø, Norwegian College of Fishery Science, Norway, Norwegian Research Council project, CPSEE program; 10 days (2002)
- Max Planck Institute for Biophysical Chemistry, Göttingen, Germany, Training and work on reflection spectroscopy and Brewster angle microscopy; 10 days (2002)

Project leader/PI

- 2024–2027 Croatian Science Foundation IP-2024-05-6224 project: "A burning issue of air pollution in the Adriatic coastal zone: insights into the ageing of aerosol properties and impacts on human and environmental health (ADRIAirBURN)"
- 2024–2025 Project funded by RBI (Program agreement): "KP2-Establishment of a new facility to study photoinduced changes in the physico-chemical properties of atmospheric aerosols"
- 2022–ongoing Project funded by the Brijuni National Park: "Annual monitoring of air quality and total atmospheric precipitation in the protected area of the Brijuni National Park"
- 2021–2022 Project funded by the Brijuni National Park: "Insights to the variability of pollutants that reach the area of the Brijuni National Park by atmospheric deposition"
- 2021–2023 Cogito Hubert Curien project: "Photochemistry of marine phytoplankton surfactant films at the air-water interface: impact to atmospheric particle formation" (co-lead C. George)
- 2020–2022 DAAD project: "Diurnal dynamics on the sea-atmosphere interface" (co-lead M. Ribas Ribas)
- 2019–2023 Croatian Science Foundation project: Young researchers' career development project – training of new doctoral students
- 2018–2023 Croatian Science Foundation IP-2018-01-3105 project: "Biochemical responses of oligotrophic Adriatic surface ecosystems to atmospheric deposition input (BiREADI) "
- 2018 EUROCHAMP-2020 TNA project: "Atmospheric deposition impacts on biochemistry and photochemistry of the sea surface layers of oligotrophic systems"
- 2016–2017 Croatian-Slovenian bilateral project: "Estimating the role of marine biogenic organosulfur compounds in the formation and properties of atmospheric organic aerosol" (co-lead A. Krofič)
- 2014–2017 Marie Curie FP7-PEOPLE-2011-COFUND NEWFELPRO project: "Chemical nature of size segregated water soluble organic aerosols and their nitro-aromatic constituents"
- 2015–2019 ACTRIS-2 (Aerosols, Clouds, and Trace gases Research InfraStructure Network), PI/contact person of Ruđer Bošković Institute, associate partner
- 2011–2015 ACTRIS (Aerosols, Clouds, and Trace gases Research InfraStructure Network), PI/ contact person of Ruđer Bošković Institute, associate partner
- 2011 Cost Action ES0801 STSM project: "Organic aerosol speciation: learning and implementation to the sea surface microlayer study".

Project collaborator

- 2024–2027 HR-BA-ME00269 ROBONETCBC, Interreg VI-A IPA Program Croatia-Bosnia and Herzegovina-Montenegro 2021–2027
- 2024-2025 Zaklada HAZU Procjena utjecaja veličinskih frakcija atmosferskih lebdećih čestica urbane sredine na zdravlje ljudi, PI dr. sc. Ana Cvitešić Kušan
- 2024–2027 SMART-Water, Interreg IPA Program Croatia-Bosnia and Herzegovina-Montenegro 2021–2027
- 2024–2027 BRIGANTINE Chemico-physical and multispectral Data fusion for Adriatic sea monitoring by autonomous vessel, INTERREG Italy-Croatia Programme 2021–2027
- 2020–2022 INNOVAMARE, INTERREG V-A Italy-Croatia CBC Programme 2014–2020
- 2017 MILAN (Sea surface microlayer functioning during night) international experiment, University of Oldenburg, Germany,

- 2014–2018 Croatian science foundation: IP-2013-11-1205 "The Sulphur and Carbon Dynamics in the Sea- and Fresh-water Environment"
- 2014–2018 Croatian science foundation: IP-2013-11-8607 "Appearance and Interaction of Biologically Important Organic Molecules and Micronutrient Metals in Marine Ecosystem under Environmental Stress"
- 2014–2015 Croatian-Chinese bilateral project "Secondary organic aerosols and photochemical pollution"
- 2014–2015 Croatian-Chinese bilateral project "A comparison of organic matter biogeochemistry in oligotrophic and eutrophic estuary: illustrated by lipids and amino acid enantiomers"
- 2010–2011 EUSAAR (European Supersites for Atmospheric Aerosol Research)
- Ministry of science education and sports of the Republic of Croatia:
2007–2011 "Nature of organic matter, interaction with traces and surfaces in environment"
2002–2006 "Nature and reactivity of organic matter in the environment"
- 2009–2010 Croatian-Hungarian bilateral project "Complex investigation of organic aerosols in rural, urban and marine environment"
- 2008–2011 NATO project "Sensors based on biomembranes for the detection of toxins and pollutants"
- 2008–2009 DAAD project "A complex study of marine organic matter characterization in seas of the European coastal zone"
- 2005–2006 Royal Society project "Novel physical chemical techniques to characterize the sea surface microlayer"
- 2002–2003 ALIS project "Electrochemical studies of sea-surface microlayers"
- 2001–2005 Norwegian Research Council project, CPSEE program

Membership and activities in scientific organization

- 2023–2026 President of the Regional Council of Interdisciplinary natural sciences, RBI
- 2021–2023, 2018–2021 Member of the Ethics Committee, RBI
- 2024–today, 2018–2023 Member of the Scientific board of Division for marine and environmental research, RBI
- 2011 Member of Committee for creating recommendations for Mentorship regulation, RBI
- 2009, 2010, 2011 Delegate of Division for marine and environmental research in RBI Council of Young Scientists
- Project evaluator: Croatian Science Foundation Panel member; National Recovery and Resilience Plan NPOO.C3.2.R3-I1.02, NPOO.C3.2.R3-I1.04 and NPOO.C3.2.R3-I1.05; Croatian Science Foundation (IP-2020-02 progress evaluation)
- Management Committee member/participant: COST CA21138 Joint effects of CLimate Extremes and Atmospheric deposition on European FORESTs (2022–2026), CA17136 Indoor Air Pollution (2019–2023); CA16109 Chemical On-line composition and source apportionment of fine aerosol (2017–2021); CA TD1105-EuNetAir European Network on New Sensing Technologies for Air-Pollution Control and Environmental Sustainability (2012–2016); CA 735 What is the sea surface microlayer? Towards a unified physical, chemical and biological definition of the air-ocean interface (2007–2011); CA ES0801 The Ocean Chemistry of bioactive trace elements and paleoclimate proxies (2007–2011)
- 2013–2016 Full member of Scientific Committee on Oceanic Research (SCOR) working group on Sea surface microlayer
- Member: Society of Graduate Engineers and Friends of the Chemical Engineering Study Programme of the University of Zagreb, Marie Curie Alumni Association, European Geoscience Union, Croatian Air Pollution Prevention Association, Croatian Chemical

Society, The Croatian Society of Chemical Engineers, International Electrochemical Society

- Guest Editor of the Special issues: 2024 Biogeosciences: "Biogeochemical processes and Air–sea exchange in the Sea-Surface microlayer"; 2024 Waters: "Biogeochemistry of Aquatic Systems Facing Climate and Anthropogenic Stressors"; 2023 Toxics: "Pollution Levels and Deposition Processes of Airborne Pollutants: Temporal Variabilities and Source Identification"
- Journal Editorial board member: International Journal of Science, Technology and Society; Research Journal of Ecology and Environmental Science
- Journal reviewer: Environmental Science & Technology, Atmospheric Chemistry and Physics, Atmosphere, Atmospheric Environment, Journal of Geophysical Research, Science of the Total Environment, Marine Environmental Research, Frontiers in Marine Science, Progress in Oceanography, Marine Chemistry, Elementa, Kemija u industriji, Journal of Visualized Experiments, Gels, Journal of Environmental Science and Technology, Waters, etc.

Organisation of scientific meetings

- Scientific committee member, Interdisciplinary Approach to the Scientific Research of the Adriatic Sea (InspireAdriatic 2023), Zagreb, Croatia
- Technical Program Committee member, 13th International Conference on Environmental Pollution and Public Health 2023 (EPPH 2023), Sanya, China <https://www.novevents.org/conference/OrganizingCommittee.aspx?id=1637>
- Scientific committee member (reviewer) of the European Aerosol Conference 2019, Gothenburg, Sweden
- Scientific committee member (reviewer) and Session Chairman at the European Aerosol Conference 2017, Zurich, Switzerland
- Scientific committee member (reviewer) of the 6th International conference Water resources in Mediterranean basin (Watmed 6) 2012, Sousse, Tunisia

Teaching and supervision activities

- 2021–today Lecturer of "Atmospheric chemistry in the marine environment", Doctoral study of Oceanology, Faculty of Science, University of Zagreb, Zagreb, Croatia
- 2014–today Lecturer of "Physical chemistry of the sea and seawater", Doctoral study of Oceanology, Faculty of Science, University of Zagreb, Zagreb, Croatia
- 2019–2023 Mentor of PhD student Andrea Milinković, PhD Thesis title: "Biological and chemical responses of sea surface layer to atmospheric deposition", Doctoral study of Oceanology, Faculty of Science, University of Zagreb, Zagreb, Croatia
- 2015–2020 Mentor of PhD student Ana Cvitešić Kušan, PhD Thesis title: "Organic matter and sulfur species in the sea surface microlayer and aerosols of the Rogoznica lake area", Doctoral study of Oceanology. Faculty of Science, University of Zagreb, Zagreb, Croatia
- 2015–2020 PhD Committee member, Kristijan Vidović, PhD Thesis title: "Formation and aging of nitroaromatic compounds as important components of atmospheric brown carbon", Faculty of Chemistry and Chemical Technology, Ljubljana, Slovenia
- 04/2019 Master work Evaluation Committee member, "Chemical and Optical Characterization of Winter Rural Aerosol", by Gina Annisa Gunarto, University of Pannonia, Hungary
- 04/2024 Supervisor of graduate student Robert Horn: "Investigation of the properties and factors affecting concentrations and size distribution of ultrafine aerosol particles during winter in the city of Zagreb", Chemistry Department, Faculty of Science, University of Zagreb, Zagreb, Croatia

- 02/2023 Supervisor of graduate student Ivona Mikić: "Variability of aerosol black carbon concentration at the Brijuni National Park area", Chemistry Department, Faculty of Science, University of Zagreb, Zagreb, Croatia
- 06/2019 Supervisor of graduate student Javor Novosel: "Investigation of atmospheric deposition impacts on the sea surface biochemistry", Department of Biotechnology University of Rijeka, Rijeka, Croatia
- 09/2014 Supervisor of graduate student Kristijan Vidović: "Seasonal variation of organic matter properties of atmospheric aerosol over Zagreb", Faculty of Mining, Geology and Petroleum Engineering, University of Zagreb, Zagreb, Croatia.
- 09/2014 Supervisor of graduate student Tin Brlić: "Characterization of surfactants in size-segregated atmospheric aerosols by an electrochemical method", Faculty of Chemical Engineering and Technology, University of Zagreb, Zagreb, Croatia.
- 06/2020 Supervisor of student practice of Tena Murk, Undergraduate study of Ecoengineering, Faculty of Chemical Engineering and Technology, University of Zagreb, Zagreb, Croatia
- 7/2019 Supervisor of student practice of Lucija Plazibat, Sacramento City College, Sacramento, California, USA.
- 10/2017 Supervisor of student practice of Karla Mamilović, Undergraduate study of food engineering, Faculty of food technology and biotechnology, University of Zagreb, Croatia

Awards

- 2025 Ruđer Bošković Institute annual awards (2023) for publishing 4 scientific papers in a high IF journals
- 2024 Ruđer Bošković Institute annual awards (2022) for publishing 2 scientific papers in a high IF journals
- 2022 Ruđer Bošković Institute annual award (2021) for publishing scientific paper in a high IF journal
- 2019 Ruđer Bošković Institute annual award (2018) for publishing scientific paper in a high IF journal
- 2016 award at the NEWFELPRO (The New International Fellowship Mobility Programme for Experienced Researchers in Croatia) competition for the project photography
- 2011 Short term scientific mission (STSM) Cost Action ES0801 project: "Organic aerosol speciation: learning and implementation to the sea surface microlayer study", 1-month stay and work at Atmospheric processes and modelling group, Centre for Environmental and Marine Studies, Aveiro, Portugal

Keynote and Invited talks outside conferences

- Invited speaker: InspireAdriatic 2025, Zagreb, Croatia: "On the linkage of the atmosphere and the ocean: Responses of sea surface to source-dependent atmospheric deposition inputs", 05/2025
- Keynote speaker: The 13th International Conference on Environmental Pollution and Public Health (EPPH 2023), Sanya, China: "Size distribution of airborne particles: sources, chemical characteristics and impacts on human health and aquatic ecosystem functioning", 11/2023
- Keynote speaker: Science school 2022, Zagreb, Croatia: "Size distribution of aerosol particles: sources, chemical composition and impact on health and environment", 12/2022
- Keynote speaker: The 12th International Conference on Environmental Pollution and Public Health (EPPH 2021), Xiamen, China: "On the linkage of the atmosphere and the ocean: biochemical responses of sea surface layers to atmospheric deposition", 11/2021
- Invited speaker: Science school 2021 Zagreb, Croatia: "A comprehensive approach to the

study of anthropogenic environmental pressures", 12/2021

- Invited speaker: Leibniz Institute for Tropospheric Research (TROPOS), Leipzig, Germany: "On the linkage of the ocean and the atmosphere: the sea surface microlayer and trace organic compounds", 20.10/2016.
- Invited speaker: The Leibniz Institute for Baltic Sea Research (IOW), Warnemünde, Germany: "The sea surface microlayer as a sink and source of marine organic aerosols", 12.09.2016.
- Celebration of 35 years of Martinska marine station, Šibenik, Croatia: "Surfactants in the sea surface microlayer as well as in the atmospheric aerosols of Šibenik area", 12/2016.
- Ruđer Bošković Institute, Zagreb, Croatia, FETOPEN project meeting: "Introduction to the analysis of surface active compounds by electrochemical approach", 12/2014.
- Invited speaker: National Institute of Chemistry, Ljubljana, Slovenia: "Introduction to AERONAR NEWFELPRO - Marie Curie FP7-PEOPLE-2011-COFUND program", 10.10.2014.
- Invited speaker: GEOMAR-Helmholtz Centre for Ocean Research, Kiel, Germany: "Physico-chemical properties of surfactants in different environmental compartments", 17.06.2013.
- NATO SfP meeting, Dubrovnik, Croatia: "Characterization of the mixed lipid monolayers and their interactions with different pollutants at air-water interface", 17.05.2011.
- COST Action 735, Plymouth, Great Britain: "Physico-chemical characterization of the sea surface microlayers", 25.01.2011.
- University of Leeds, Leeds, Great Britain: "Sea-surface microlayer: definition, importance and investigation", 05.03.2003.
- University of Leeds, Leeds, Great Britain: "Electrochemical impedance studies of sea-surface microlayer", 25.11.2003.

Technical skills and competences

- Electrochemical techniques (ac. voltammetry, cyclic voltammetry, electrochemical impedance spectroscopy, etc)
- Chromatographic techniques: TLC-FID, HPLC-DAD, LC-MS/MS, GC-MS
- UV-Vis spectrophotometry
- Brewster angle microscopy
- Monolayer technique - Langmuir-Blodgett trough
- Reflection spectroscopy at the air-water interface (RefSpec Instrumentation)
- Fractal analysis using box counting algorithm
- Aerosol black carbon source apportionment by Aethalometer model
- 20-years of field work experience: sampling of the sea surface microlayer, water column, atmospheric aerosols, atmospheric deposition samples
- Driving licence B category

Peer-reviewed scientific papers

1. Račić, Nikolina, Frka, Sanja, Cvitešić Kušan, Ana, Petrić, Valentino, Mureddu, Francesco, Lovrić, Mario. *Characterizing Indoor Black Carbon Dynamics in a Residential Environment: The Role of Human Activity and Ventilation Behavior* *Toxics* 13 (2025) 536. <https://doi.org/10.3390/toxics13070536>
2. Strmečki, Slađana, Dešpoja, Iva, Penezić, Abra, Milinković, Andrea, Bakija Alempijević, Saranda, Kiss, Gyula, Hoffer, András, Mitić, Božena, Hruševar, Dario, Frka, Sanja. *How do certain atmospheric aerosols affect Cu-binding organic ligands in the oligotrophic coastal sea surface microlayer?* *Environmental Science Processes & Impacts* 26 (2024) 119–135. <https://doi.org/10.1039/D3EM00415E>

3. Gašparović, Blaženka; Vrana, Ivna; Vlašiček, Ivan; Marić Pfannkuchen, Daniela; Chaux, Frédéric; Djakovac, Tamara; Ivančić, Ingrid; Smodlaka Tanković, Mirta; Milinković, Andrea; Frka, Sanja; Novak, Tihana; Flanjak, Lana; Medić, Nikola; Godrijan, Jelena. *Paradox of relatively more phospholipids in phytoplankton in phosphorus limited sea*, *Limnology and Oceanography*, 9999 (2023) 1–14. doi.org/10.1002/lno.12464
4. Gluščić, Valentina; Žužul, Silva; Pehneć, Gordana; Jakovljević, Ivana; Smoljo, Iva; Godec, Ranka; Bešlić, Ivan; Milinković, Andrea; Bakija Alempijević, Saranda; Frka, Sanja. *Sources, Ionic Composition and Acidic Properties of Bulk and Wet Atmospheric Deposition in the Eastern Middle Adriatic Region*. *Toxics*, 11 (2023) 551 1-26. doi.org/10.3390/toxics11070551
5. Godrijan, Jelena; Marić Pfannkuchen, Daniela; Djakovac, Tamara; Frka, Sanja; Gašparović Blaženka. *Lipids of different phytoplankton groups differ in sensitivity to degradation: Implications for carbon export*. *Global change biology*, 29 (2023) 17 5075–5086. <https://doi.org/10.1111/gcb.16839>
6. Cvitešić Kušan, Ana; Baranašić, Jurica; Frka, Sanja; Lucijanić, Tomo; Šribar, Andrej; Knežević, Jelena; Buonanno, Giorgio; Stabile, Luca. *The size distribution of SARS-CoV-2 genetic material in airborne particles sampled in hospital and home care environments occupied by COVID-19 positive subjects*. *Science of the total environment*, 892 (2023) 164642, 10. [10.1016/j.scitotenv.2023.164642](https://doi.org/10.1016/j.scitotenv.2023.164642)
7. Van Pinxteren, Manuela; Zeppenfeld, Sebastian; Fomba, Khanneh Wadinga; Triesch, Nadja; Frka, Sanja; Herrmann, Hartmut. *Amino acids, carbohydrates and lipids in the tropical oligotrophic Atlantic Ocean: Sea-to-air transfer and atmospheric in situ formation*. *Atmospheric Chemistry and Physics*, 23(11) (2023) 6571–6590 doi.org/10.5194/acp-23-6571-2023
8. Tomaš, Ana Vrdoljak; Šantić, Danijela; Šolić, Mladen; Skejić, Sanda; Milinković, Andrea; Kušan, Ana Cvitešić; Gašparović, Blaženka; Šestanović, Stefanija; Frka, Sanja. *How do open coastal fire episodes impact sea surface microlayer neuston communities?* *Science of the Total Environment*, 861 (2023) 160593, 10 [doi:10.1016/j.scitotenv.2022.160593](https://doi.org/10.1016/j.scitotenv.2022.160593)
9. Penezić, Abra; Wang, Xinke; Perrier, Sebastien; George, Christian; Frka, Sanja. *Interfacial photochemistry of marine diatom lipids: Abiotic production of volatile organic compounds and new particle formation*. *Chemosphere*, 313 (2023) 137510, 12 <https://doi.org/10.1016/j.chemosphere.2022.137510>
10. Milinković, Andrea; Penezić, Abra; Cvitešić Kušan, Ana; Gluščić, Valentina; Žužul, Silva; Skejić, Sanda; Šantić, Danijela; Godec, Ranka; Pehneć, Gordana; Omanović, Dario Engel, Anja; Frka, Sanja. *Variabilities of biochemical properties of the sea surface microlayer: Insights to the atmospheric deposition impacts*. *Science of the Total Environment*, 838 (2022) 156440, 14 doi.org/10.1016/j.scitotenv.2022.156440
11. Frka, Sanja; Šala, Martin; Brodnik, Helena; Štefane, Bogdan; Krofilč, Ana; Grgić, Irena. *Seasonal variability of nitroaromatic compounds in ambient aerosols: Mass size distribution, possible sources and contribution to water-soluble brown carbon light absorption*. *Chemosphere*, 299 (2022) 134381, 7 doi.org/10.1016/j.chemosphere.2022.134381
12. Casotto, R., Cvitešić Kušan, A., Bhattu, D., Cui, T., Manousakas, M. I., Frka, S., Krofilč, A., Grgić, I., Ciglencčki, I., Baltensperger, Slowik, U., J. G., Daellenbach, K. R., Prévôt, A. S. H. *Chemical composition and sources of organic aerosol on the Adriatic coast in Croatia*. *Atmospheric Environment: X*, 13 (2022) 100159, 14 doi.org/10.1016/j.aeaoa.2022.100159
13. Bačinić, A., Frka, S., Mlakar, M. *A study of cobalt (II) complexes involved in marine biogeochemical processes: Co(II)-1,10-Phenanthroline and Co(II)-1,10-Phenanthroline-*

- L- α - Phosphatidylcholine*. *Bioelectrochemistry*, 144 (2022) 108009–108018 doi.org/10.1016/j.bioelechem.2021.108009
14. Milinković, A., Gregorič, A., Džaja Grgičin, V., Vidič, S., Penezić, A., Cvitešić Kušan, A., Bakija Alempijević, S., Kasper-Giebl, A., Frka, S. *Variability of black carbon aerosol concentrations and sources at a Mediterranean coastal region*. *Atmospheric Pollution Research*, 12(11) (2022) 101247 doi.org/10.1016/j.apr.2021.101221
 15. Jakovljević, I., Šimić, I., Mendaš, G., Sever Štrukil, Z., Žužul, S., Gluščić, V., Godec, R., Pehnc, G., Bešlić, I., Milinković, A., Bakija Alempijević, S., Šala, M., Ogrizek, M., Frka, S. *Pollution levels and deposition processes of airborne organic pollutants over the central Adriatic area: Temporal variabilities and source identification*. *Marine pollution bulletin*, (2021) 172; 112873, 18 doi.org/10.1016/j.marpolbul.2021.112873
 16. Penezić, A., Milinković, A., Bakija Alempijević, S., Žužul, S., Frka, S. *Atmospheric deposition of biologically relevant trace metals in the eastern Adriatic coastal area*. *Chemosphere*, 283 (2021), 131178, 14 doi.org/10.1016/j.chemosphere.2021.131178
 17. Jakovljević, I.; Sever Štrukil, Z.; Pehnc, G; Bešlić, I; Milinković, A.; Bakija Alempijević, S.; Frka, S. *Comparison of PAH Mass Concentrations in Aerosols of the Middle Adriatic Coastal Area and Central Croatia*, *Kemija u Industriji*, KUI-28/2020, 2020 <https://hrcak.srce.hr/247628>
 18. N. Triesch, M. van Pinxteren, S. Frka, C. Stolle, T. Spranger, E. H. Hoffmann, X. Gong, H. Wex, D. Schulz-Bull, B. Gašparović, H. Herrmann *Concerted measurements of lipids in seawater and on submicron aerosol particles at the Cape Verde Islands: biogenic sources, selective transfer and high enrichments*. *Atmospheric Chemistry and Physics*, 21 (2021) 4267–4283 doi.org/10.5194/acp-21-4267-2021
 19. Manuela van Pinxteren, Khanneh Wadinga Fomba, Nadja Triesch, Christian Stolle, Oliver Wurl, Enno Bahlmann, Xianda Gong, Jens Voigtländer, Heike Wex, Tiera-Brandy Robinson, Stefan Barthel, Sebastian Zeppenfeld, Erik Hans Hoffmann, Marie Roveretto, Chunlin Li, Benoit Grosselin, Veronique Daële, Fabian Senf, Dominik van Pinxteren, Malena Manzi, Nicolás Zabalegui, Sanja Frka, Blaženka Gašparović, Ryan Pereira, Tao Li, Liang Wen, Jiarong Li, Chao Zhu, Hui Chen, Jianmin Chen, Björn Fiedler, Wolf von Tümpling, Katie Alana Read, Shalini Punjabi, Alastair Charles Lewis, James Roland Hopkins, Lucy Jane Carpenter, Ilka Peeken¹⁶, Tim Rixen, Detlef Schulz-Bull, Maria Eugenia Monge, Abdelwahid Mellouki, Christian George, Frank Stratmann, Hartmut Herrmann. *Marine organic matter in the remote environment of the Cape Verde Islands – An introduction and overview to the MarParCloud campaign*. *Atmospheric Chemistry and Physics*, 20 (2020) 11; 6921–6951 doi.org/10.5194/acp-20-6921-2020
 20. Cvitešić Kušan, A., Kroflić, A., Grgić, I., Ciglencečki, I., Frka, S., *Chemical characterization of fine aerosols in respect to water-soluble ions at the eastern Middle Adriatic coast*. *Environmental Science and Pollution Research*, 27 (2020) 10249–10264. doi.org/10.1007/s11356-020-07617-7
 21. Stolle, C., Ribas-Ribas, M., Badewien, T. H., Barnes, J., Carpenter, L. J., Chance, R., Damgaard, L. R., Durán Quesada, AM., Engel, A., Frka, S., Galgani, L., Gašparović, B., Gerriets, M., Mustaffa, N. I. H., Herrmann, H., Kallajoki, L., Pereira, R., Radach, F., Revsbech, N. P., Rickard, P., Saint, A., Salter, M., Striebel, M., Triesch, N., Uher, G., Upstill-Goddard, R. C., van Pinxteren, M., Zäncker, B., Zieger, P., Wurl, O. *The MILAN campaign: Studying diel light effects on the air-sea interface*. *Bulletin of the American Meteorological Society*, 101 (2) (2020) E146–E166 doi.org/10.1175/BAMS-D-17-0329.1
 22. Stolle, C., Ribas-Ribas, M., Badewien, T. H., Barnes, J., Carpenter, L. J., Chance, R., Damgaard, L. R., Durán Quesada, AM., Engel, A., Frka, S., Galgani, L., Gašparović, B., Gerriets, M., Mustaffa, N. I. H., Herrmann, H., Kallajoki, L., Pereira, R., Radach, F., Revsbech, N. P., Rickard, P., Saint, A., Salter, M., Striebel, M., Triesch, N., Uher, G.,

- Upstill-Goddard, R. C., van Pinxteren, M., Zäncker, B., Zieger, P., Wurl, O. *The MILAN campaign: Studying the Sea Surface Microlayer*. Bulletin of the American Meteorological Society, 101 (4) (2020) 299–304 doi.org/10.1175/BAMS-D-17-0329.A
23. Cvitešić Kušan, A., Frka, S., Ciglonečki, I., *Electrochemical Evidence of non-Volatile Reduced Sulfur Species in Water-Soluble Fraction of Fine Marine Aerosols*. Atmosphere, 10 (2019) 674 doi.org/10.3390/atmos10110674
24. Gérard, V., Noziere, B., Fine, L., Ferronato, C., Kumar Singh, D., Frossard, A. A., Cohen, R. C., Asmi, E., Lihavainen, E., Kivekäs, N., Aurela, M., Brus, D., Frka, S., Cvitešić Kušan, A. *Concentrations and adsorption isotherms for amphiphilic surfactants in PM1 aerosols from different regions of Europe*. Environmental Science & Technology, 53 (2019) 21, 12379–12388 doi.org/10.1021/acs.est.9b03386
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- Frka, Sanja, Znanstveni krugovi, HRT1 (Croatian Radiotelevision) 01/2016.
- Frka, Sanja, Znanstveni koncentrat, Croatian Radio, HRT3, 01/2016.

Participation at conferences and workshops

Participated at > 50 international/national conferences; 6 international workshops; > 80 publications/conference abstracts published in proceedings of international and national meetings (<http://bib.irb.hr/lista-radova?autor=237503>)