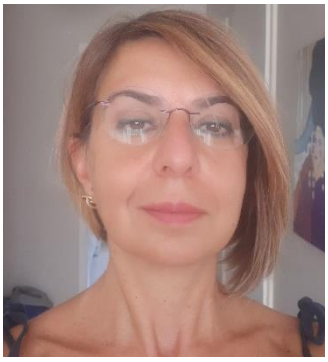

CURRICULUM VITAE
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Education

Ph.D. : Bogaziçi University, Institute of Environmental Sciences, 2005.
M.Sc. : Bogaziçi University, Institute of Environmental Sciences, 1999.
B.S. : Bogaziçi University, Chemistry Department, 1997.

Research Experience and Occupation

1997, Student research assistant, Department of Chemistry, Bogazici University, Istanbul, Turkey

2/1/2002-1/7/2002, Visiting researcher, Department of Analytical Chemistry, University of Kansas-Lawrence, USA

7/7/2005-24/7/2005, Researcher, Environmental Chemistry and Technology Programme, Water Chemistry Department, University of Wisconsin, Madison, WI, USA

5/10/2006-22/12/2006, Researcher, University of Fisciano, Department of Civil Engineering, Sanitary Environmental Engineering Division, Fisciano (SA), Italy

7/2/2007-15/4/2007, Researcher, University of Salerno, Department of Civil Engineering, Sanitary Environmental Engineering Division, Fisciano (SA), Italy

1/9/1998-1/9/2007, Research assistant, Institute of Environmental Sciences, Bogazici University, Istanbul, Turkey

1/9/2007- present, Instructor, Institute of Environmental Sciences, Bogazici University, Istanbul, Turkey

Projects

BAP Project, "Influence of molecular size fractions of natural organic matter on the aggregation/agglomeration behaviour of nanoparticles", 2021-2022, Project Coordinator

BAP Project, "Influence of bio-organocolloids on aggregation behavior of engineered nanoparticles during light initiated reactions in the environment", 2018-2021, Researcher.

BAP Project, "Effect of aggregation and agglomeration during oxidative treatment of organic matter by photocatalysis", 2018-2019, Project Coordinator.

H2020-WATER-2015, Research and Innovation Action (RIA), "Water-Sustainable Point-Of-Use Treatment Technologies (WATERSPOUTT) Development of water supply and sanitation technology, systems and tools, and/or methodologies" (Su: Kullanıma Hazır Sürdürülebilir Arıtma Teknolojileri), 2016-2020, Researcher

BAP Project, "Mechanistic investigation on photocatalytic destruction of pathogenic bacteria", 2017-2019, Researcher.

BAP Project, "Evaluation of recovery potential for precious and rare earth metals from e-waste", 02/03/2014 - 28/09/2016, Researcher.

BAP Project, "Effect of nanoparticles (NPs) on anaerobic digestion process", 1/04/2013 - 01/05/2014, Researcher.

TÜBITAK Project, "The behaviour of nanoparticles in conventional and bioreactor landfills", 15/05/2013-2015, Researcher.

Bilateral Cooperation Programme, Joint Research Project between TÜBİTAK and Ministry of Foreign Affairs of Italy "Surrogate parameters to control emerging contaminants in water treated by advanced oxidation processes". Dr. Ceyda Uyguner Demirel (Boğaziçi University), Dr.Vincenzo Naddeo (University of Salerno), 2012-2015, Project Coordinator.

BAP Project, "The role of anion doping on the photocatalytic performance of TiO_2", 24/05/2012 - 23/05/2014, Researcher.

BAP Project, "Investigating the Environmental and Microbiological Factors Influencing Water Quality of Indoor Swimming Pools, 2012-2014, Researcher.

BAP Project, "Recovery and reuse of Fe (III) doped TiO_2 in a solar photocatalytic reactor system", 03/05/2012 - 03/10/2013, Project Coordinator.

BAP Project, "Light Induced Degradation of Humic Acids in Aqueous Systems", 2010-2012, Researcher.

BAP Project, Co-composting of Sludge with Organic Solid Wastes and The Prevention of Odor by Using Natural Additives, 2010-2011, Project Coordinator.

BAP Project, "Clay Adsorption and Pretreatment Efficiency of Natural Organic Matter in Drinking Water Treatment", 2008-2010, Researcher

BAP Project, “Investigation of the surrogate parameters for the assessment of eutrophication in natural water systems”, 2008-2009, Researcher.

BAP Project, “An Investigation on the Disinfection byproduct Precursor Speciation in Drinking Water”, 2006-2007, Researcher.

BAP Project, “Evaluation of Alternative Water Treatment Systems for Obtaining Safe Water in Three Countries”, 2004-2005, Researcher.

BAP Project, “Structural Characterization of Humic Substances by Spectroscopic Techniques in Relation to Photocatalytic Oxidative Degradation”, 2003-2005, Researcher.

BAP Project, “Removal of Algal Derived Organic Matter by Heterogeneous Photocatalytic Oxidation”, 2003-2005, Researcher.

BAP Project, “Comparative Evaluations of Humic Acid Structure Under Different Oxidative Conditions, 2003-2005, Researcher.

Editorial Work

Guest Editor for Special Issue; Journal of Hazardous Materials, Special Section: Advanced Treatment Options for the Removal of Environmental Contaminants, Volume 263, Part 2, Pages 267-792 (15 December 2013)

Guest Editor for Special Issue; International Journal of Global Warming, Special Issue on Global Warming Solutions by Recycling and Reuse, Volume 6, 2-3, Pages 267-792 (1 May 2014).

Publications

1. Uyguner-Demirel, C.S., Turkten, N., Kaya, D., and Bekbolet, M., 2022. Effect of oxidative and non-oxidative conditions on molecular size fractionation of humic acids: TiO_2 and Cu-doped TiO_2 photocatalysis. Environmental Science and Pollution Research, 1-20.
2. Birben, N.C, Lale, E., Uyguner-Demirel, C.S., Bekbolet, M., Elucidation of in-situ produced organic matrix effect on the solar photo/photocatalytic inactivation of E. coli, Catalysis Today, 380: 53-61, 2021.
3. Birben, N.C., Lale, E., Pelosato, R., Uyguner-Demirel,C.S., Sora, I.N., Bekbolet, M., Photocatalytic bactericidal performance of $LaFeO_3$ under solar light: Kinetics, spectroscopic and mechanistic evaluation, Water,13(9):1135, 2021
4. Uyguner-Demirel C.S, Sakallioglu T., Evaluating the suspension potential of manufactured nanoparticles in landfill leachate, Environmental Engineering and Management Journal, 18, 5, 983-990, 2019.
5. Fraiese A., Naddeo V.,Uyguner-Demirel C.S., Prado M., Cesaro A., Zarra T., Liu H., Belgiorno V. and Ballesteros Jr. F, Removal of emerging contaminants in wastewater by sonolysis, photocatalysis and ozonation, Global NEST, 21 (2), 98-105, 2019.

6. Uyguner-Demirel C.S., Birben N.C., Bekbolet M., A comprehensive review on the use of second generation TiO_2 photocatalysts: Microorganism inactivation, Chemosphere, 211, 420-448, 2018.
7. Birben N.C., Uyguner-Demirel C.S., Bekbolet M., Organic matrix in reverse osmosis concentrate: Composition and treatment alternatives, Current Organic Chemistry, 21, 1-14, 2017
8. Birben N.C., Uyguner-Demirel C.S., Sen-Kavurmaci S., Gurkan Y.Y., Turkten N., Cinar Z., M. Bekbolet M., Application of Fe-doped TiO_2 specimens for the solar photocatalytic degradation of humic acid, Catalysis Today, 281, 78–84, 2017.
9. Uyguner-Demirel C.S., Birben N.C., Bekbolet M., Elucidation of background organic matter matrix effect on photocatalytic treatment of contaminants using TiO_2: A review, Catalysis Today, 284, 202–214, 2017.
10. Dulger M., Sakallioglu T., Temizel I., Demirel B., Copty N.K., Onay T.T., Uyguner-Demirel C.S. , Karanfil T., Leaching potential of nano-scale titanium dioxide in fresh municipal solid waste, Chemosphere, 144, 1567-1572, 2016.
11. Birben N.C., Uyguner-Demirel C.S., Bekbolet M., Photocatalytic Removal of Microbiological Consortium and Organic Matter in Greywater, Catalysts, 6 , 91, 1-14, 2016.
12. Birben N.C., Uyguner-Demirel C.S., Sen-Kavurmaci S., Gurkan Y.Y., Turkten N., Cinar Z., Kilic M., Bekbolet M.,Photocatalytic Performance of Anion Doped TiO_2 on the Degradation of Complex Organic Matrix, Journal of Advanced Oxidation Technologies 19 (2), 199-207, 2016.
13. Sakallioglu T., Bakirdoven M., Temizel I., Demirel B, Copty N.K., Onay T.T., Uyguner Demirel C.S., Karanfil T., Leaching of nano-ZnO in municipal solid waste, Journal of Hazardous Materials, 317, 319–326, 2016.
14. Naddeo V., Uyguner-Demirel C.S., Prado M., Cesaro A., Belgiorno V., Ballesteros J. F. Enhanced ozonation of selected pharmaceutical compounds by sonolysis, Environmental Technology, 36,15, 1876-1883, 2015.
15. Birben N.C., Uyguner-Demirel C.S., Sen-Kavurmaci S., Gurkan Y.Y., N. Turkten N., Cinar Z., M. Bekbolet M., Comparative evaluation of anion doped photocatalysts on the mineralization and decolorization of natural organic matter, Catalysis Today, 240, 125-131, 2015.
16. Pavelescu, G., Uyguner-Demirel,C., Bekbolet, M., Ghervase, L. and Ioja, C., Comparison of photocatalytic treatment effectiveness on sewage and industrial wastewater, Environmental Engineering and Management Journal, 13,8, 2015-2021, 2014.
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19. Baycan Parilti, N., Uyguner-Demirel C., Bekbolet, M., Response surface methodological approach for the assessment of the photocatalytic degradation of NOM, Journal of Photochemistry and Photobiology A: Chemistry, 225, 1, 26-35, 2011.
20. Uyguner-Demirel C. and Bekbolet, M., Significance of analytical parameters for the understanding of natural organic matter in relation to photocatalytic oxidation, Chemosphere, 84, 8, 1009-1031, 2011.
21. Uyguner, C.S., Bekbölet, M., TiO_2 assisted photocatalytic degradation of humic acids: effect of copper ions, Water Science and Technology, 61, 10, 2581-2590, 2010.

22. Bekbolet, M., Çınar Z., Kılıç M., Uyguner C.S., Minero, C., Pelizzetti E., Photocatalytic oxidation of dinitronaphthalenes: Theory and experiment, Chemosphere, 75, 8, 1008-1014, 2009.
23. Uyguner, C.S. and Bekbolet, M., Application of photocatalysis for the removal of natural organic matter in simulated surface and ground waters, Journal of Advanced Oxidation Technologies, 12, 11, 87-92, 2009.
24. Süphandag S.A.,Uyguner C.S., Bekbolet M., Istanbul'datüketilen ticari ve sebeke bazlı içme sularının kimyasal ve spektroskopik profilleri. ITU e, 17(2), 23-35, 2007.
25. Uyguner C.S., Suphandag S.A., Kerc A., Bekbolet M., Evaluation of adsorption and coagulation characteristics of humic acids preceded by alternative advanced oxidation techniques, Desalination, 210, 1-3, 183-193, 2007.
26. Rizzo L., Uyguner C.S., Selcuk H., Bekbolet M., Anderson M., Activation of solgel titanium nanofilm by UV illumination for NOM removal, Water Science & Technology, 55, 12, 113–118, 2007.
27. Uyguner C.S., Bekbolet M., Selcuk H., A comparative approach to the application of a physico-chemical and advanced oxidation combined system to natural water samples, Separation Science and Technology, 42, 7, 1405-1419, 2007.
28. Uyguner C.S., Bekbolet M., Contribution of metal species to the heterogeneous photocatalytic degradation of natural organic matter, International Journal of Photoenergy, Article ID 23156, 8, 2007.
29. Bekbolet M, Uyguner CS, Selcuk H, Rizzo L, Nikolaou AD, Meric S, Belgiorno V, Application of oxidative removal of NOM to drinking water and formation of disinfection by-products, Desalination,176, 1-3, 155-166, 2005.
30. Uyguner CS, Bekbolet M, A comparative study on the photocatalytic degradation of humic substances of various origins, Desalination,176, 1-3, 167-176, 2005.
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34. Uyguner CS, Bekbolet M, Evaluation of humic acid, chromium (VI) and TiO_2 ternary system in relation to adsorptive interactions, Applied Catalysis B-Environmental, 49, 4, 267-275, 2004.
35. Uyguner CS, Bekbolet M, Photocatalytic degradation of natural organic matter: Kinetic considerations and light intensity dependence, International Journal of Photoenergy, 6, 2, 73-80, 2004.
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Book Chapters

1. Ceyda S. Uyguner-Demirel, Ezgi Lale, Nazmiye Cemre Birben, Miray Bekbolet, Solar Light Initiated Photoinactivation of E.coli: Influence of Natural Organic Matter in *Frontiers in Water-Energy-Nexus—Nature-Based Solutions, Advanced Technologies and Best Practices for Environmental Sustainability* (Eds. Vincenzo Naddeo, Malini Balakrishnan, Kwang-Ho Choo), pp. 249-251, Springer, 2020.

2. Ceyda Senem Uyguner-Demirel, Burak Demirel, Nadim K. Copty and Turgut T. Onay, Presence, Behavior and Fate of Engineered Nanomaterials in *Municipal Solid Waste Landfills in Nanotechnologies for Environmental Remediation: Applications and Implications* (Eds. G. Lofrano et al.), pp 311-325, Springer, 2017.
3. Ceyda Senem Uyguner-Demirel and Miray Bekbolet, Green Chemistry for Green Treatment Technologies *in Emerging Compounds Removal from Wastewater: Natural and Solar Based Treatments* (Ed. G. Lofrano), pp.1-11, Springer, 2012.
4. Ceyda Senem Uyguner, Vulnerability of the Drinking Water Supplies of Istanbul Metropolitan City: Current Status and Future Prospects *in Risk Management of Water Supply and Sanitation Systems* (Eds. P. Hlavinek et al.), NATO Science for Peace and Security Series C: Environmental Security, pp. 215-224, Springer, 2009.
5. Ceyda Senem Uyguner and Miray Bekbolet, Aqueous Photocatalysis, Natural Organic Matter Characterization and Removal: A case study of the photocatalytic oxidation of fulvic acid in *Dangerous Pollutants (Xenobiotics) in Urban Water Cycle* (Eds. P. Hlavinek et al.), pp. 247-256, Springer, 2008.
6. Ceyda Senem Uyguner, Miray Bekbolet, Joanna Swietlik, Chapter 5.1. Natural Organic Matter: Definitions and Characterization in *Control of Disinfection By-Products in Drinking Water Systems* (Eds. A. Nikolau, H. Selcuk, L. Rizzo), pp. 253-277, NOVA Science Publishers Inc., NY, USA. 2007.
7. Ceyda Senem Uyguner, Miray Bekbolet, Chapter 7.4. A Review on the Photocatalytic Degradation of Humic Substances in *Control of Disinfection By-Products in Drinking Water Systems* (Eds. A. Nikolau, H. Selcuk, L. Rizzo), pp. 419-446, NOVA Science Publishers Inc., NY, USA. 2007.

Poster and oral presentations in scientific conferences

Uyguner, C. S. and Bekbölet, M., "Contribution of Model Trace Metals to the Photocatalytic Oxidation of Humic Acids", *The Fifth International Conference on TiO_2 Photocatalytic Purification and Treatment of Water and Air*, London, Ontario, Canada, p. 181, 25-30 June 2000, poster presentation.

Bekbölet, M.; Süphandağ, A.S. and Uyguner, C.S., "An investigation of the photocatalytic efficiencies of TiO_2 powders on the decolorization of humic acids", *SP1 First International Conference on 'Semiconductor Photochemistry*, Glasgow, Scotland, p. 87, 23-25 July 2001, poster presentation.

Uyguner C.S., Bekbölet M., Larive, C., "Natural macromolecules and their structural identification with spectrsocopic techniques", NATO Advanced Study Institute (NATO ASI Program), 6th Course of the International School of Structural Biology and Magnetic Resonance, "Structure, Dynamics and Function of Biological Macromolecules and Assemblies", Ettore Majorana Foundation and Centre for Scientific Culture, Erice, Sicily, 10-22 July 2003, poster presentation.

Uyguner C.S., Bekbölet M., "Evaluation of humic acid photodegradation by UV-vis and fluorescence spectroscopy", *SPEA3, 3rd European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications*, June 30-July 2, 2004, Barcelona, Spain, poster

presentation.

Uyguner C.S., Bekbölet M., "A comparative study on the photodegradation of humic substances of various origin", *The First European Conference on Oxidation and Reduction Technologies for Ex-Situ and In-Situ Treatment of Water, Soil* and *Air (ECOR-1),* Göttingen, Germany, April 25-28, 2004, poster presentation.

Uyguner C.S. and Bekbölet M., "Implementation of spectroscopic parameters for practical monitoring of natural organic matter", *NATO Science Programme Seminar, Evaluation of alternative water treatment systems for obtaining safe water*, 27-29 September 2004, Fisciano (SA), Italy, oral presentation.

Uyguner C.S., Süphandağ, S.A., Kerç A., and Bekbölet M., "Evaluation of adsorption and coagulation characteristics of humic acids preceded by alternative advanced oxidation techniques", *9th International Conference on Environmental Science and Technology*, p. 239, 1-3 September 2005, Rhodes, Greece, oral presentation.

Uyguner C.S. and Bekbölet M., "Aqueous Photocatalysis: Natural Organic Matter Characterization and Removal", *The 10th International Conference on TiO_2 Photocatalysis: Fundamentals and Applications*, October 23-27, 2005, Chicago, Illinois, USA, oral presentation.

Rizzo L., Uyguner C.S., Selçuk H., Bekbölet M., Anderson M. (2006). "Activation of solgel titanium nanofilm by UV illumination for NOM removal", *4th IWA Specialist Conference on Oxidation Technologies for Water and Wastewater Treatment,* AOP4, CUTEC, May 15 - 17, 2006, Goslar, Germany, oral presentation.

Uyguner C.S., Selçuk H., and Bekbölet M.**,** Photocatalytic Oxidation of NOM: Applications in Natural Water Systems, *4th IWA Specialist Conference on Oxidation Technologies for Water and Wastewater Treatment,* AOP4, CUTEC, May 15 - 17, 2006, Goslar, Germany, poster presentation.

Uyguner C.S., Selçuk H., and Bekbölet M., "A comparative approach to the application of a physico chemical and advanced oxidation combined system to natural water samples", *EAAOP-1 : First European Conference on Environmental Applications of Advanced Oxidation Processes,* September 7-9, 2006, Chania, Crete, Greece, poster presentation.

Selçuk H., Uyguner C.S., Anastasia N., and Bekbölet M., "Preozonation and Aluminum and Iron Enhanced Coagulations for the Disinfection By-Products (DBPs) Control in Drinking Water: A Comparative Study", *EAAOP-1 : First European Conference on Environmental Applications of Advanced Oxidation Processes,* September 7-9, 2006, Chania, Crete, Greece, oral presentation.

Bekbölet M., Çınar Z., Kılıç M., Uyguner C.S., Minero C., Pelizzetti E., "Photocatalytic Degradation of Nitro-PAHs: A Novel Mechanistic Approach", *The 11th International Conference on TiO_2 Photocatalysis: Fundamentals and Applications (TiO_2-11),* 55, September 25-28, 2006, Pittsburgh, Pennsylvania, USA, oral presentation.

Z. Cınar, M. Kılıç, Y. Yalçın, N. San, C.S. Uyguner, A. Suphandag, M. Bekbolet, The 12th International Conference on TiO_2 Photocatalysis: Fundamentals and Applications, 24-18 September 2007, Niagara Falls, NewYork, USA, poster presentation.

Bekbolet, M., and Uyguner, C. S., "Photocatalytic degradation of allochthonous and autochthonous organic matter in drinking water", Second International Conference on Semiconductor Photochemistry, Abstract Book. P6, Aberdeen, U.K, July 23-25, 2007, poster presentation.

Uyguner C.S. and Bekbolet M., "Significance of parameters for the implementation of photocatalytic oxidation efficiency via DBPs control", 10th International Conference on Environmental Science and Technology- CEST 2007, Workshop 1: Control of disinfection byproducts in drinking water and wastewater reuse, Kos Island, Greece, September 5-8, 2007, oral presentation.

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Çınar, Z., Kılıç, M., Yalçın, Y., San, N., Uyguner, C.S., Suphandag, S. A., Bekbolet, M., "Characterization of Surface Modified TiO_2 with Salicylic Acid: A New Modeling Approach", The 12th International Conference on TiO_2 Photocatalysis: Fundamentals and Applications and The 13th International Conference on Advanced Oxidation Technologies for Treatment of Water, Air and Soil , p. 102, Niagara Falls, New York, USA, 24-27 September 2007, poster presentation.

Uyguner, C.S. and Bekbolet, M., "The Spectroscopic and Chemical Characteristics of Drinking Waters in Istanbul: Application of Physicochemical and Advanced Oxidation Methods" 4th IWA Specialist Conference, NOM 2008 Natural Organic Matter: from Source to Tap, 2-4 September 2008, Bath, UK, oral presentation.

Uyguner, C.S. and Bekbolet, M., "Photocatalytic Degradation of Gallic Acid: Modeling of NOM Using a Lower Molecular Weight Compound", 5th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications (SPEA 5 Sicilia)", 4-8 October, 2008, Palermo, Sicilia, poster presentation.

Uyguner, C.S., "Vulnerability of the drinking water supplies of Istanbul Metropolitan City: Current status and future prospects", NATO Advanced Research Workshop (ARW) on Risk management of water supply and sanitation systems impaired by operational failures, natural disasters and war conflicts, 22-25 October 2008, Ohrid, Macedonia, oral presentation.

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Uyguner-Demirel C.S., Birben C., Bekbolet M., "Key Role of Common Anions on the Photocatalytic Degradation Profiles of the Molecular Size Fractions of Humic Acids" 7th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications (SPEA7), Porto, Portugal, 17-20 June 2012, poster presentation.

Birben C., Uyguner-Demirel C.S., Tomruk A. and Bekbolet M., "Dual Role of TiO_2 on the Removal Performance of Microbiological Consortium and Organic Matter", 19th International Conference on Advanced Oxidation Technologies for Treatment of Water, Air and Soil (AOTs-19), November 17-21, 2013, San Diego, California –USA, poster presentation.

Birben C., Tomruk A., Turkten N., Yalcin Gurkan Y., Cinar Z. and Bekbolet M., "Degradation of Humic Acid using Visible Light Sensitive Photocatalysts: Se-Doped, N-Doped and Se-N Codoped TiO_2", The 19th International Conference on Semiconductor photocatalysis and solar Energy Conversion (SPASEC-19), November 17-20, 2014, San Diego, CA, USA.

Birben N.C., Uyguner-Demirel C.S., Sen-Kavurmacı S., Yalcin Gurkan Y., Turkten N., Cinar Z., Bekbolet M., Tracing photocatalytic degradation of natural organic matter in the presence of "second generation photocatalysts", 6th IWA Specialist Conference on Natural Organic Matter in Water (NOM6), 7-10 September, 2015, Malmo, Sweden.

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Birben N.C., Uyguner-Demirel, C.S., Tomruk A., Bekbolet M., "Mechanistic Insight into Solar Photocatalytic Destruction of E.coli" The 23rd International Conference on Advanced Oxidation Technologies for Treatment of Water, Air and Soil (AOTs-23), USA, poster presentation, 13-16 November 2017, Clearwater Beach, USA, poster presentation.

Demirel B.,Uyguner-Demirel C.S, Copty N.,Onay T.T., ,Karanfil T., "Leaching of nano TiO_2 and ZnO from municipal solid waste", COST cation ES1205 Final Conference, 7-8 February 2017, Avero, Portugal, poster presentation.

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