Curriculum vitae

Affiliation: Institute on Membrena Technology, CNR-ITM
Address: Via P.Bucci, cubo 17/c , 87030, Rende CS, Italy

+390984492027

alberto.figoli@cnr.it

https://www.itm.cnr.it/index.php/it/struttura/direttore

M | *Date of birth* 26/12/1970 | *Italian*

Enterprise	University	EPR
☐ Management Level	☐ Full professor	☒ Research Director and 1st level Technologist / First Researcher and 2nd level Technologist / Principal Investigator
☐ Mid-Management Level	☐ Associate Professor	☐ Level III Researcher and Technologist
☐ Employee / worker level	☐ Researcher and Technologist of IV, V, VI and VII level / Technical collaborator	☐ Researcher and Technologist of IV, V, VI and VII level / Technical collaborator

Since 1 March 2019 to date: DIRECTOR, Institute on Membrane Technology - National Research Council, ITM-CNR

Since 1 January 2021 to date: PRESIDENT Territorial Area CNR of Cosenza, Via Cavour,4-6, 87036 Rende (CS)

WORK EXPERIENCE

1 May – 20 Dec. 1996	Working experience at Quest International Nederland B.V. (UNILEVER), Naarden (NL), Process Research Group: Setting of a pilot plant for aromatic compounds extraction using the pervaporation membrane technology.
20 May 1997 - 26 Oct 2001	PhD in Chemical Technologies at Membrane Technology Group, University of Twente, Enschede (NL). Title of the thesis on "Synthesis of nanostructured mixed matrix membranes for facilitated gas separation".
19 Dec 2001 - 28 Feb 2019	Researcher at the Institute on Membrane Technology (CNR-ITM)
14 June -24 July 2005	Stage at "Environmental Protection Agency of United States (USEPA)" presso "Sustainable Technology Division, Cincinnati (USA)" on "Volatile Organic Compounds (VOCs) removal using a novel asymmetric membrane by pervaporation" nell'ambito dello "Short Term Mobility Programme" funded CNR.
01-28 February 2004	Stage at "Environmental Protection Agency of United States (USEPA)" at Sustainable Technology Division, Cincinnati (USA) on "Aroma removal using a novel ceramic-polymeric membrane material by pervaporation" within "Short Term Mobility Programme" funded by CNR
1 Oct. -1 Dec. 2010	"Secondment at GVS, SpA in Bologna, within the EU project "Implementation of Membrane

	Technology to Industry (IMETI). Work on “Preparazione e caratterizzazione di membrane innovative per la rimozione di Composti Organici Volatili (VOCs)”.
1 Sept-5 Nov. 2011	”Secondment at GVS, SpA a Bologna, within the EU project “Implementation of Membrane Technology to Industry (IMETI). Work on “Preparazione e caratterizzazione di membrane ibride per la rimozione di Composti Organici Volatili (VOCs)”.
1 Feb 2015-1Feb 2019	Elected as Member of European Membrane Society (EMS), Awards and Price Responsible; EMS Secretary.

EDUCATIONAL EXPERIENCE

15 March 1996	Degree in Food Science and Technology at the Agriculture University of Milan. Title of thesis "oil extraction from vegetal matrixes through the use of supercritical CO_2".
20 May 1997 - 26 Oct 2001	PhD in Chemical Technologies at Membrane Technology Group, University of Twente, Enschede (NL). Title of the thesis on "Synthesis of nanostructured mixed matrix membranes for facilitated gas separation”.

Research-related skills

Alberto Figoli is expert in the field of membrane technology, particularly in *membrane preparation and characterisation* and *application in environmental filed.* He is working on the preparation and characterisation of novel elastomeric and glassy membranes, both in flat and hollowfiber configuration, which are applied to the removal of VOC from water by pervaporation or water treatment by membrane contactors. Furthermore, he is also involved on polymeric capsules preparation by membrane process which aim to tailor their morphology to the release of the species of interest for food packaging, chemical and environmental applications. He is also working on pervaporation applied to the removal of contaminants (i.e. VOC) from water and aroma recovery from natural matric (fruit or vegetables).

Recent projects

- International Project, BIOPURE “Biopharmaceuticals purification by continuous membrane-assisted crystallization achieving lower cost and intensified processes”, HORIZON-EIC-2022-TRANSITIONOPEN-01 , Period 2023- 2026, Position in the project: “European Project Coordinator”.

- National Project, TECH4YOU-PNRR “Development of membrane prototypes based on renewable energy systems, which can also be used in remote areas, for the purification of contaminated waters from toxic pollutants (e.g. arsenic, hexavalent chromium, fluorine, etc.) to be used for drinking and irrigation purposes”, Period: 2023-2026, Position in the project: “ITM Scientific Responsible”.

- International project, NEWMEM, Development of anti-wetting and anti-fouling membranes for membrane distillation and membrane crystallizer applications: treatment of RO brine and produced water, Funding Board: Ministry of Education, Kingdom of Saudi Arabia, Period: 2020-2023, Position in the project: “ITM Scientific Responsible”.

- National Project, Proof of Concept (POC), Funded by MITO- Progress Tech Transfer Srl, Period 01/03/2021-1/10/2021, Position in the project: “ITM Scientific Responsible”.

- Bilateral Project Italy-France, University Rennes – ITM, Towards sustainable membrane fabrication using biopolymers and non-toxic solvents; Funding Board: Bando GALILEO - MIUR, Italy, Period: 2020-2021 (extended to 2022); Position in the project: “ITM Scientific Responsible”.

- International Project, – MEMSEAFOOD - Development of innovative membranes in Anaerobic Membranes BioReactor (AnMBR) for seafood processing wastewater treatment, Italy – Vietnam Science and Technology Cooperation for the Joint Project - Progetto Commissionato da Italian Ministry of Foreign Affairs and International Cooperation (MAECI), Period 01/01/2021– 31/12/2023, “ITM Scientific Responsible”.

- Research Project between ITM-CNR and SAES SPA for the research on “development of innovative products”. Period December 2019-December 2020 and December 2020-December 2023. Position in the

project: “ITM Scientific Responsible”.

- Research Project among ITM-CNR, DeltaMEM, Bracco Imaging SPA for the research on “Innovative membrane processes”. Period November 2019- March 2020. Position in the project: “ITM Scientific Responsible”.

- National Project PON, TARANTO (Tecnologie e processi per l’Abbattimento di inquinanti e la bonifica di siti contaminati con Recupero di mAterie prime e produzioNe di energia TOtally green), Funding Board: PON 2014-2020 Ricerca e Innovazione. Period: 2018 – 2021, Position in the project: “ITM Scientific Responsible”.

- Regional Project POR, AsSE (SEparazione dell’ArSenico dalle acque mediante processi a membrana), Funding Board: POR CALABRIA FESR-FSE2014-2020, Period 2017 – 2020, Position in the project: “Scientific Project Responsible”

- European Project (Horizon2020) for the research of “Integrated aquaculture based on sustainable water recirculating system for the Victoria Lake Basin”. Period: June 2016– June 2019, Position in the project: “ITM Scientific Responsible”.

- Research Project Agreement between ITM-CNR and Solvay Specialty Polymer for the research: “Hydrophobic flat membrane preparation for membrane contactors and pervaporation application”. Period: november 2012- December 2016. Position in the project: “Scientific Coordinator”.

- European Project (FP7) for the research of “Nanotechnology Application in Water Deasalination (NAWADES)”. Period: September 2012– September 2016, Position in the project: “ITM Scientific Responsible”.

- Research project Agreement between ITM-CNR and IPM-filtri for the research: “Membrane preparation for water treatment”. Period: november May 2012- May 2013. Position in the project: “Scientific Coordinator”.

- European Project (FP7) for the research of “Biotechnology for Africa’s sustainable water supply (WATERBIOTECH)”. Period: September 2011– September 2013, Position in the project: “ITM Scientific Responsible”.

- European Project (FP7) for the research of “Development of the next generation membrane bioreactor system (BIONEXGEN)”. Period: September 2010 – May 2014, Position in the project: “ITM Scientific Responsible”.

- European Project (FP7): Marie Curie People for the research of “Preparation of ionic liquid microcapsule membranes loaded and their application in NMVOCs removal”. Period: July 2010 – July 2012 Position in the project: “Scientific Coordinator ”.

- Agreement between ITM-CNR and Chemical Engineering School in Baghdad (Iraq), “Memorandum of Understanding”. Period: Starting in July 2010. Position in the project: “Scientific Coordinator”.

- Agreement between ITM-CNR and Dipartimento di Scienze Farmaceutiche dell’Università della Calabria (Prof. Bartolo Gabriele) for research: “Study on synthesis and characterisation of polymerisable surfactants”. Period of the project: March 2011 - March 2012. Position in the project: “Scientific Coordinator”.

- European Project (FP7) Erasmus Mundus External Cooperation Window, Lot 13: “EURINDIA”. Period: September 2009 – September 2013 Position in the project: “ITM Scientific responsible”. Period: September 2010- September 2014.

- Agreement between ITM-CNR e King Abdulaziz City for Science and Technology (KACST) for the research: “Hydrophobic membrane preparation for membrane contactors application”. Period: Spetmber 2009 – September 2012. Position in the project: “Key expert”.

- Agreement between ITM-CNR and Alteco Srl for the research: “Applicazioni di contattori a membrana nel settore medicale”. Period December 2006-December 2007. Position in the project: “key expert”.

- European Project FP7: "Membrane-based desalination: an integrated approach (MEDINA)". Period of the project: October 2006 – January 2010. Period of the project : October 2006 – January 2010. Position in the project: Participant.
- European Project (FP7): "Promotion and focussing of current research activities of Membrane Technology in Water Treatment in the Mediterranean Region (PROMEMBRANE)". Period of the project: August 2006- August 2008. Position in the project: "key expert".
- European Project (FP6),Asia Pro Eco programme: "Innovative Water Treatment (INNOWA)". Period of the project: April 2005- April 2007. Position in the project: "principal investigator".
- Network of excellence "Nano-technologies and nano-sciences, knowledge-based multifunctional materials, and new production processes and devices (Nanomempro)", European Project in FP6. Period of the project: September 2004- August 2008. Position in the network: WP7 ITM-CNR responsible "Characterisation of membrane function",

SCIENTIFIC ACITIVITY

h-index 54 (Scopus)

Articles Alberto Figoli published more than 200 peer-review papers on Membrane Science and Technology
Some selected newest articles:

1. V. T. Luong, E. E. Cañas Kurz, U. Hellriegel, U. N. Dinh, H. T Tran, A. Figoli, Bartolo Gabriele, Tran L Luu, Jan Hoinkis, Modular desalination concept with low-pressure reverse osmosis and capacitive deionization: Performance study of a pilot plant in Vietnam in comparison to seawater reverse osmosis, *Journal of Environmental Management,* 329 (2023) 117078
2. W. Ma, Z. Zhou, N. Ismail, E. Tocci, A. Figoli, M. Khayet, T. Matsuura, Z. Cui, T. Naser, Membrane formation by thermally induced phase separation: Materials, involved parameters, modeling, current efforts and future directions, *Journal of Membrane Science* (2022) 121303
3. G. Trapasso, C. Salaris, M. Reich, Evgenia Logunova, Cristiano Salata, Klaus Kümmerer, Alberto Figoli, Fabio Aricò, A scale-up procedure to dialkyl carbonates; evaluation of their properties, biodegradability, and toxicity, *Sustainable Chemistry and Pharmacy*, 26 (2022) 100639
4. Md E. Talukder, Md Pervez, W. Jianming, G. K Stylios, M. M. Hassan, H. Song, V. Naddeo, A. Figoli, Ag nanoparticles immobilized sulfonated polyethersulfone/polyethersulfone electrospun nanofiber membrane for the removal of heavy metals, *Scientifc Reports*, 12 (1) (2022) 1-16
5. X Li, J Pan, F Macedonio, C Ursino, M Carraro, M Bonchio, E Drioli Fluoropolymer Membranes for Membrane Distillation and Membrane Crystallization, *Polymers* 14 (24) (2022) 5439
6. M. Chabane, A. Tavolaro, F. Russo, G. Chiappetta, B. Dahmani, A. Figoli, Preparation and characterization of PVDF hybrid membranes by embedding nanomaterials as silica gel and clay: evaluation of the removal efficiency of nickel and copper ions from water, *Desalination and Water Treatment*, 255 (2022) 13-26
7. W. K. Al-Musawy, M. H. Al-Furaiji, M. M. Aljumaily, K. T. Rashid, H. G. Salih, Q. F.A. Alsalhy, H. S. Majdi, A. Figoli, A Mini-Review on Thin-Film Composite Hollow Fiber Membranes for Forward Osmosis Applications, *Ecol. Eng. Environ. Technol.*, 24 (1) (2023) 287–301
8. R. R. Abdullah, K. M. Shabeeb, A. B. Alzubaydi, A. Figoli, A. Criscuoli, E. Drioli, Q. Alsalhy, Characterization of the Efficiency of Photo-Catalytic Ultrafiltation PES Membrane Modified with Tungsten Oxide in the Removal of Tinzaparin Sodium, *Engineering and Technology Journal* 40 (12) (2022) 1-10
9. E. Esposito, A. Minotti, E. Fontananova, M. Longo, J. C. Jansen, A.Figoli, Green H_2 Production by Water Electrolysis Using Cation Exchange Membrane: Insights on Activation and Ohmic Polarization

Phenomena, *Membranes,* 12 (1) (2022) 15

10. A. Macchia, H. Aureli, C. Biribicchi, A. Docci, C. Alisi, F. Prestileo, F. Galiano, A. Figoli, R. Mancuso, B. Gabriele, M. F. La Russa, In Situ Application of Anti-Fouling Solutions on a Mosaic of the Archaeological Park of Ostia Antica, *Material*s, 15 (16) (2022) 5671
11. I. Fuoco, L. Marini, R. De Rosa, A. Figoli, B. Gabriele, C. Apollaro, Use of reaction path modelling to investigate the evolution of water chemistry in shallow to deep crystalline aquifers with a special focus on fluoride, *Science of The Total Environment*, 830 (2022) 154566
12. M. M. Aljumaily, H. M. Alayan, A. A. Mohammed, M. A. Alsaadi, Q. F. Alsalhy, A. Figoli, A. Criscuoli, the influence of coating super-hydrophobic carbon nanomaterials on the performance of membrane distillation, *Applied Water Science*, 12 (3) (2022) 1-8
13. Md Pervez, M. R. Mishu, Md E. Talukder, G. K Stylios, A. Buonerba, S. W Hasan, Y. Cai, Y. Zhao, A. Figoli, T. Zarra, V. Belgiorno, V. Naddeo, Electrospun nanofiber membranes for the control of micro/nanoplastics in the environment, *Water Emerging Contaminants & Nanoplastics*, 1 (2) (2022) 10
14. R. Castro-Muñoz, F. Galiano, A. Figoli, G. Boczkaj, Deep eutectic solvents – A new platform in membrane fabrication and membrane-assisted technologies, *Journal of Environmental Chemical Engineering*, 10, 2 (2022) 106414
15. Md N. Pervez, Md E. Talukder, M. Rahman Mishu, A. Buonerba, P. Del Gaudio, G. K. Stylios, S. W Hasan, Y. Zhao, Y. Cai, A. Figoli, T. Zarra, V. Belgiorno, H. Song, V. Naddeo, Fabrication of polyethersulfone/polyacrylonitrile electrospun nanofiber membrane for food industry wastewater treatment, *Journal of Water Process Engineering*, 47 (2022) 102838
16. F. Russo, R. Castro-Muñoz, S. Santoro, F. Galiano, A. Figoli, A Review on Electrospun Membranes for Potential Air Filtration Application, *Journal of Environmental Chemical Engineering*, 10 (5) (2022) 108452
17. I. Ounifi, Y. Guesmi, C. Ursino, H. Agougui, M. Jabli, A. Hafiane, A. Figoli, E. Ferjani, Synthesis of a thin-film polyamide-cellulose acetate membrane: effect of monomers and porosity on nano-filtration performance, *Journal of natural fibers*, 19, 15 (2022) 10746-10763
18. P. Tomietto, F. Russo, F. Galiano, P. Loulergue, S. Salerno, L. Paugam, J.-L. Audic, L. De Bartolo, A. Figoli, Sustainable fabrication and pervaporation application of bio-based membranes: Combining a polyhydroxyalkanoate (PHA) as biopolymer and Cyrene™ as green solvent, *Journal of Membrane Science,* 643 (2022) 120061
19. I. Ounifi, Y. Guesmi, C. Ursino, R. Castro-Muñoz, H. Agougui, M. Jabli, A. Hafiane, A. Figoli, E. Ferjani, Synthesis and characterization of a thin-film composite nanofiltration membrane based on polyamide-cellulose acetate: application for water purification, *Journal of Polymers and the Environment,* 30 (2) (2022) 707-718
20. F. Russo, M. Tiecco, F. Galiano, R. Mancuso, B. Gabriele, A. Figoli, Launching deep eutectic solvents (DESs) and natural deep eutectic solvents (NADESs), in combination with different harmless co-solvents, for the preparation of more sustainable membranes*, Journal of Membrane Science* 649 (2022) 120387
21. A Iulianelli, F Russo, F Galiano, M Manisco, A Figoli, Novel bio-polymer based membranes for CO2/CH4 separation, *International Journal of Greenhouse Gas Control*, 117 (2022) 103657
22. A. Boughdiri, I. Ounifi, H. Chemingui, C. Ursino, A. Gordano, M. O. Zouaghi, A. Hafiane, A. Figoli, E. Ferjani, A preliminary study on cellulose acetate composite membranes: effect of nanoparticles types in their preparation and application, *Materials Research Express*, 9 (1) (2022) 015003
23. R. Castro-Muñoz, A. Msahel, F. Galiano, M. Serocki, J. Ryl, S. Ben Hamouda, A. Hafiane, G. Boczkaj, A. Figoli, Towards azeotropic MeOH-MTBE separation using pervaporation chitosan-based deep eutectic solvent membranes, *Separation and Purification Technology* 281 (2022) 119979
24. J. Yu, S. Boudjelida, F. Galiano, A. Figoli, M. Bonchio, M. Carraro, Porous Polymeric Membranes Doped with Halloysite Nanotubes and Oxygenic Polyoxometalates, *Adv. Mater. Interfaces,* (2022) 2102152
25. C Apollaro, D Di Curzio, I Fuoco, A Buccianti, E Dinelli, G Vespasiano, A Castrignanò, S Rusi, D Barca, A Figoli, B Gabriele, R De Rosa, A multivariate non-parametric approach for estimating probability of exceeding the local natural background level of arsenic in the aquifers of Calabria region (Southern Italy), *Science of the Total Environment*, 806 (2022) 150345

26. G. Di Luca, M. Filomia, A. Fuoco, G. Chiappetta, A. Figoli, Effect of Graphene Oxide on Liquid Water-Based Waterproofing Bituminous Membranes, *Polymers,* 14 (11) (2022) 2221.
27. Md N. Pervez, Md E. Talukder, M. R. Mishu, A. Buonerba, P. Del Gaudio, George K Stylios, S. W. Hasan, Y. Zhao, Y. Cai, A. Figoli, T. Zarra, V. Belgiorno, H. Song, V. Naddeo, One-step fabrication of novel polyethersulfone-based composite electrospun nanofiber membranes for food industry wastewater treatment, *Membranes*, 12 (4) (2022) 413
28. D. M. Nisticò, A. Piro, D. Oliva, V. Osso, S. Mazzuca, F. A. Fagà, R. Morelli, C. Conidi, A. Figoli, A. Cassano, A Combination of Aqueous Extraction and Ultrafiltration for the Purification of Phycocyanin from Arthrospira maxima, *Microorganisms* 10 (2) (2022) 308
29. I. Fuoco, R. De Rosa, D. Barca, A. Figoli, B. Gabriele, C. Apollaro, Arsenic polluted waters: Application of geochemical modelling as a tool to understand the release and fate of the pollutant in crystalline aquifers, *Journal of Environmental Management* 301 (2022) 113796
30. F. Galiano, R. Mancuso, M. Carraro, J. Bundschuh, J. Hoinkis, M. Bonchio, G. De Luca, B. Gabriele, A. Figoli, A polyoxometalate-based self-cleaning smart material with oxygenic activity for water remediation with membrane technology, *Applied Materials Today*, 23 (2021) 101002
31. I. Ounifi, Y. Guesmi, C. Ursino, S. Santoro, S. Mahfoudhi, A. Figoli, E. Ferjanie, A. Hafiane, Antifouling membranes based on Cellulose acetate (CA) blended with poly (acrylic acid) for heavy metal remediation, *Applied Sciences*, 11(10) (2021) 114354
32. F. Russo, C. Ursino, B. Sayinli, I. Koyuncu, F. Galiano, A. Figoli, Advancements in sustainable PVDF copolymer membrane preparation using Rhodiasolv® PolarClean as an alternative eco-friendly solvent, *Clean Technol.*, 3 (2021) 761–786
33. F. Galiano, R. Mancuso, L. Guazzelli, M. Mauri, C. Chiappe, R. Simonutti, A. Brunetti, C.S. Pomelli, G. Barbieri, B. Gabriele, A. Figoli, Phosphonium ionic liquid-polyacrylate copolymer membranes for improved CO2 separations, *Journal of Membrane Science*, 635 (2021) 119479
34. F. Besharat, M. Manteghian, F. Russo, F. Galiano, A. Figoli, M. Abdollahi, A. Lazzeri, Investigation of electric field-aligned edge-oxidized graphene oxide nanoplatelets in polyethersulfone matrix in terms of pure water permeation and dye rejection, *Polymers for Advanced Technologies*, 32, 4 (2021) 1531-1547
35. C Ursino, I Ounifi, E Di Nicolò, XQ Cheng, L Shao, Y Zhang, E Drioli, A Criscuoli, A Figoli, Development of non-woven fabric-based ECTFE membranes for direct contact membrane distillation application, *Desalination*, 500 (2021) 114879
36. F. Galiano, R. Castro-Muñoz, A. Figoli, Pervaporation, Vapour Permeation and Membrane Distillation: From Membrane Fabrication to Application, *Membranes*, 11, 3 (2021) 162
37. E. Khademian, E. Salehi, H. Sanaeepur, F. Galiano, A. Figoli, A systematic review on carbohydrate biopolymers for adsorptive remediation of copper ions from aqueous environments—Part B: Isotherms, thermokinetics and reusability. *Science of The Total Environment*, 754 (2021) 142048
38. S. Saidi , F. Macedonio, F. Russo, C. Hannachi, B. H. Béchir, E. Drioli, A. Figoli, Preparation and characterization of hydrophobic 1 P(VDF-HFP) flat sheet membranes using Tamisolve® NxG solvent for the treatment of saline water by direct contact membrane distillation and membrane crystallization, *Separation and Purification Technology*, 275 (15) (2021) 119144.
39. F. Russo, M. Bulzomì, E. Di Nicolò, C. Ursino, A. Figoli, Enhanced anti-fouling behavior and performance of pes membrane by uv treatment, *Processes*, 9, 2 (2021) 246
40. A. Msahel, F. Galiano, M. Pilloni, F. Russo, A. Hafiane, R. Castro-Muñoz, V. Bhooshan Kumar, A. Gedanken, G. Ennas, Z. Porat, A. Scano, S. B. Hamouda, A. Figoli, Exploring the effect of iron metal-organic framework particles in polylactic acid membranes for the azeotropic separation of organic/organic mixtures by pervaporation, *Membranes*, 11, 1 (2021) 65
41. I. Fuoco, C. Apollaro, A. Criscuoli, R. De Rosa, S. Velizarov, A. Figoli, Fluoride Polluted Groundwaters in Calabria Region (Southern Italy): Natural Source and Remediation, *Water,* 13 (2021) 1626
42. S. H. Ahmed, S. M. Al-Jubouri, N. Zouli, A. A. Mohammed, H. Shaker Majdi, I. K. Salih, M. Al-shaeli, A. MI Al-Rahawi, Q. F. Alsalhy, A. Figoli, Research Article Performance Evaluation of Polyethersulfone Membranes for Competitive Removal of Cd2, Co2, and Pb2 Ions from

Simulated Groundwater, *Geofluids*, 2021, Article ID 6654477

43. D. Zou, S. P. Nunes, I. F.J. Vankelecom, A. Figoli, Y. Moo Lee, Recent advances in polymer membranes employing non-toxic solvents and materials, *Green Chemistry*, 23 (2021) 9815-9843
44. S. L. Duraikkannu, R. Castro-Muñoz, A. Figoli, A review on phase-inversion technique-based polymer microsphere fabrication, *Colloid and Interface Science Communications*, 40 (2021) 100329
45. F. Russo, T. Marino, F. Galiano, L. Gzara, A. Gordano, H. Organji, A. Figoli, Tamisolve® NxG as an alternative non-toxic solvent for the preparation of porous poly(vinylidene fluoride) membranes, *Polymers*, 13 (2021) 2579
46. G. Bagnato, A. Figoli, R. Garbe, F. Russo, F. Galiano, A. Sanna, Development of Ru-PEEK-WC catalytic membrane using a more sustainable solvent for stable hydrogenation reactions, *Fuel Processing Technology*, 216 (2021) 106766
47. F. Russo, F. Galiano, A. Iulianelli, A. Basile, A. Figoli, Biopolymers for sustainable membranes in CO2 separation: a review, Fuel Processing Technology, 213 (2021) 106643
48. C. Ursino, F. Russo, R Ferraro, MP De Santo, E. Di Nicolò, T. He, F Galiano, A. Figoli, Polyethersulfone hollow fiber membranes prepared with Polarclean® as a more sustainable solvent, Journal of Membrane Science, 608 (2020) 118216
49. AF Noor A. M. Ameen, S. S. Ibrahim, Q. F. Alsalhy, Highly Saline Water Desalination Using Direct Contact Membrane Distillation (DCMD): Experimental and Simulation Study, Water, 12 (6) (2020) 1575.
50. G Grasso, F Galiano, MJ Yoo, R Mancuso, HB Park, B Gabriele, A Figoli, E Drioli, Development of Graphene-PVDF Composite Membranes for Membrane Distillation, Journal of Membrane Science, 604 (2020) 118017
51. D.S. Lakshmi, Y.S. Sistla, A. Khanna, A. Figoli, Ionic liquid loaded polyether sulfone microspheres for CO2 separation, Adsorption (2020), doi:10.1007/s10450-020-00241-4
52. F. Russo, C. Ursino, E. Avruscio, G. Desiderio, A. Perrone, S. Santoro, Francesco Galiano, A. Figoli, Innovative Poly (Vinylidene Fluoride) (PVDF) Electrospun Nanofiber Membrane Preparation Using DMSO as a Low Toxicity Solvent, Membranes, (10)3 (2020) 36
53. Z. K. Sun, Y. Zhou, Y. Jiao, X. Q. Cheng, Y. Zhang, P. Wang, H. Liang, X. Yang, E. Drioli, A. Figoli, J. Ma, L. Shao, Multi-hydrophilic functional network enables porous membranes excellent anti-fouling performance for highly efficient water remediation, Journal of Membrane Science, 608 (2020) 118191
54. D. Shantana Lakshmi, Y.S. Sistla, A. Khanna, A. Figoli, Ionic liquid loaded polyether sulfone microspheres for CO_2 separation, Adsorption, 2020, doi.org/10.1007/s10450-020-00241-4
55. E Gukelberger, T Atiye, JA Mamo, K Hoevenaars, F Galiano, A Figoli, B Gabriele, R Mancuso, P Nakyewa, F Akello, R Otim, B Mbilingi, SC Adhiambo, D Lanta, M Musambya, J Hoinkis, Membrane Bioreactor (MBR) treated domestic wastewater for sustainable reuse in the Lake Victoria region, Integrated Environmental Assessment and Management, 2020, doi: 10.1002/ieam.4281
56. F. H. Al-Ani, Q. F Alsalhy, R. S. Raheem, K. T. Rashid, A. Figoli, Experimental Investigation of the Effect of Implanting TiO2-NPs on PVC for Long-Term UF Membrane Performance to Treat Refinery Wastewater 10(4) (2020) 77
57. Z. Wang, F. He, J. Guo, S. Peng, X. Cheng, Y. Zhang, E. Drioli, Alberto Figoli, Y. Li, L. Shao, The stability of graphene oxide (GO) nanofiltration (NF) membrane in aqueous environment: Progress and challenges, Materials Advances, DOI: 10.1039/D0MA00191K
58. N. A. M. Ameen, S. S. Ibrahim, Q. F. Alsalhy, A. Figoli, Highly Saline Water Desalination Using Direct Contact Membrane Distillation (DCMD): Experimental and Simulation Study, Water, 12 (2020) 1575
59. I Fuoco, A Figoli, A Criscuoli, G Brozzo, R De Rosa, B Gabriele, C Apollaro, Geochemical modeling of chromium release in natural waters and treatment by RO/NF membrane processes, Chemosphere, 254 (2020) 126696
60. W Xie, A Tiraferri, B Liu, P Tang, F Wang, S Chen, A Figoli, L-Y Chu, First Exploration on a Poly (vinyl chloride) Ultrafiltration Membrane Prepared by Using the Sustainable Green Solvent PolarClean, ACS Sustainable Chemistry & Engineering, 8 (2020) 91-101

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Honours and awards

-Alberto Figoli, Global Price Innovation in Desalinaton Prize (GPID), 1st Impact Medal on "Net Positivity, New Value Streams beyond Water", Jeddah, Saudi Arabia, October 2023

- Alberto Figoli, 1st price for the Scientific Productivity 2006 in "Food Packaging Research – GSICA Awards", given by Prof. Piergiovanni, President of the Italian Scientific Group in Food Packaging, Catania, 22 June 2006.

- Alberto Figoli, Best Article selected among 14000 scientific articles to represent at CNR headquarters the Environmental Section in the Highlights of CNR publications for the years 2010 and 2011 by CNR, July 2011 and 16 July 2012, CNR headquarter, Rome. Selected article: A. Figoli, A.

Cassano, A. Criscuoli, S. Mozumder, T. Uddin, A. Islam, E. Drioli, Influence of operating parameters on the arsenic removal by nanofiltration, Water Research 44 (2010) 97-104.

- Alberto Figoli, invited to present at CNR Headquarter in Rome, as representative of the macroarea "Environment", the work selected within the Highlights of CNR for the years 2010/2011: A. Figoli, A. Cassano, A. Criscuoli, M. S. I. Mozumder, M. T. Uddin, M. A. Islam, E. Drioli, Influence of operating parameters on the arsenic removal by nanofiltration, Water Research 44 (2010) 97-104. Presentation at CNR, Sala Marconi, Piazzale Aldo Moro 7, Rome: July 2012.

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Referee activity

Referee for several international journals: Water Research, Journal of Membrane Science, Hazardous Material Journal, J Phys Chemistry B, Separation Science and Technology, Desalination, Journal of Chemical Technology and Biotechnology, Separation and Purification, etc.

Project Referee for different organisations: Romanian Government, National Council for Scientific Research, UEFISCDI, Romania; The Innovation and Technology Commission (ITC), Government of the Hong Kong Special Administrative Region; "CE21 Food, food systems" Evaluation committee of the French National Research Agency - Czech Science Foundation, GACR; Netherlands Organisation for Scientific Research, NWO, Domain TTW.

Invited Chairman

Alberto Figoli has been invited as chairman in more than 10 Conferences

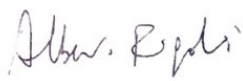
Supervising and mentoring activities

Supervisor of more than 50 undergraduate and Master students in Italy and Europe (1998-2020)

Supervisor of more than 10 PhD students in the field of Membrane Technology

Conference proceedings

More than 150 conference proceedings including oral and poster presentations

Membership

- Member of the European Membrane Society (EMS).