

CURRICULUM VITAE

Nicolas Kalogerakis, PhD, P.Eng

Professor Emeritus of Biochemical Engineering

Laboratory of Biochemical Engineering

& Environmental Biotechnology

School of Chemical and Environmental Engineering

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Collaborating faculty, Institute of GeoEnergy - FORTH, Chania, Greece.

Visiting Professor (2018-19), Dept of Chemical Engineering, American University of Sharjah, UAE

CV Highlights:

Nicolas Kalogerakis is Professor Emeritus of Biochemical Engineering in the School of Chemical and Environmental Engineering at the Technical University of Crete where he has served as Vice-President of the University Council and Department Head (twice). Prior to that he was a Professor at SUNY-Buffalo (USA) and at the University of Calgary (Canada) where he climbed quickly through all ranks. In 1997, he returned to Greece as the founding faculty member of the Environmental Engineering Dept. He holds a Diploma in Chemical Engineering from NTUA (Athens, Greece), a Master degree from McGill University (Montreal, Canada) and a PhD from the Univ. of Toronto (Canada). During 2018-19, he was a Visiting Professor at the Dept of Chemical Engineering of the American University of Sharjah (UAE). Currently he is also Collaborating faculty at the Institute of GeoEnergy – FORTH, Chania Greece.

His area of expertise includes biochemical engineering & environmental biotechnology focusing on bioremediation and phytoremediation technologies for the restoration of contaminated sites; protection and restoration of the marine environment (oil spills and marine litter); novel oxygenation systems (nanobubble technologies) and wastewater treatment; and mathematical modeling of environmental processes. He has been very active in attracting external research funding totaling in excess of 20 million EUR. Currently, Prof. Kalogerakis's group is participating in 3 EU funded research projects, and he is the coordinator of nanoBT, an ERA-MIN2 project, and was the coordinator of KILL*SPILL, a large FP7-project.

He has served as a member of the European Commission (EC) Environment Committee (2007-2011) and as Sherpa in the EC, High Level Group on Key Enabling Technologies (2013-2015).

Bibliographic Data:

Publications: 257 papers, 12 editorials and 6 patents

Scopus: Citations >14800, H-index 66

Google Scholar: Citations >21100, H-index 80.

Education

1979 -1983	<i>Doctor of Philosophy</i> , Department of Chemical Engineering & Applied Chemistry University of Toronto, Toronto, Ontario, Canada.
1977 -1979	<i>Master of Engineering</i> , Department of Chemical Engineering, McGill University, Montreal, Quebec, Canada.
1972 -1977	<i>Dipl. Chem. Engineering</i> , Department of Chemical Engineering, National Technical University of Athens (NTUA), Athens, Greece.

Academic Positions

2021 – present	<i>Professor Emeritus of Biochemical Engineering</i> , TU-Crete, Chania, Greece
2020 – present	<i>Collaborating faculty</i> , Institute of Geoenergy, FORTH, Chania, Greece
1997 – 2021	<i>Professor of Biochemical Engineering & Director</i> , Laboratory of Biochemical Engineering & Environmental Biotechnology, TU-Crete, Chania, Greece
2018 – 2019	<i>Visiting Professor</i> , Dept. of Chemical Engineering, American Univ. of Sharjah, UAE
2008 – 2009	<i>Visiting Professor</i> , Dept. of Environmental Management, Cyprus University of Technology, Lemesos, Cyprus
1995 – 1997	<i>Professor of Biochemical Engineering</i> , Department of Chemical Engineering, State University of New York (SUNY), Buffalo, NY, USA.
1990 – 1995	<i>Professor of Chemical Engineering</i>
1986 – 1990	<i>Associate Professor of Chemical Engineering</i>
1983 – 1986	<i>Assistant Professor of Chemical Engineering</i> , Department of Chemical & Petroleum Engineering, University of Calgary, Calgary, Alberta, Canada.

Administrative Positions

2013 – 2017	<i>Vice-President</i> , University Council, Technical University of Crete, Chania, Greece
2010 – 2013	<i>Vice-President</i> , Governing Council, University of Western Greece, Agrinio, Greece
2004 – 2008	<i>Head</i> , Dept. of Environmental Engineering, Technical University of Crete, Greece.
2000 – 2002	<i>Acting Head</i> , Dept. of Environmental Engineering, Technical University of Crete, Chania, Greece.
1997 – 2000	<i>Director of Graduate Studies</i> , Dept. of Environmental Engineering, Technical University of Crete, Chania, Greece
1989 - 1995	<i>Associate Director</i> , Pharmaceutical Production Research Facility (PPRF), University of Calgary, Calgary, Alberta, Canada.

International Distinctions & Awards

2022	<i>Doctor Honoris Causa</i> awarded by the “Gheorghe Asachi” Technical University of Iasi (Romania) for research contributions in the protection and restoration of the marine environment.
2019	Distinguished Speaker at University of Toronto’s seminar series “ <i>Lectures on the Leading Edge</i> ”
2019	Distinguished Speaker at McGill University’s <i>EUL seminar series</i>
2017	<i>Research Excellence Award</i> , Technical University of Crete, Chania, Greece
2014 – 2020	<i>Advisory Board member</i> , City of Scientific Research and Technology Applications (SRTA-City) Alexandria, Egypt
2013 – 2023	<i>Advisory Board member</i> , CIIMAR – Interdisciplinary Centre of Marine and Environmental Research Porto, Portugal;
2013	<i>Top-10 most cited articles 2010-2011 Award</i> , Talanta, Elsevier
2010	<i>Top-50 most cited articles 2005-2009 Award</i> , J. Chromatography A, Elsevier

2008 – 2009	<i>Visiting Professor, Cyprus University of Technology, (to set up graduate studies programs in Environmental Management & Technology).</i>
2006	<i>Ecopolis 2006 Research Team Award (Laboratory of Biochemical Engineering and Environmental Biotechnology – headed by Prof. N. Kalogerakis)</i>

Representative in European Commission

- European Commission Committee – China Collaborative Research Program, Greek Delegate (2017)
- European Commission Committee – Prize design for best technology collecting marine litter (2016)
- Sherpa European Commission - High Level Group on Key Enabling Technologies (2013-2015)
- Environment Committee – National representative for Greece (expert) – GSRT (2007-2011)
- EC-Working Group E on priority substances– National representative of the Ministry of Environment and Climate Change of Greece (2007–2010).

Evaluation Panels

- *Vice Chair Environment Panel* – Marie Curie Actions (2004-07), DG Research, European Commission
- *Member Environment Panel* – Marie Curie Actions (2001-04), DG Research, European Commission
- *Member of Evaluation Committees* for FP-6 and FP-7 Collaborative RTD projects and Horizon-2020 Innovation and Research Actions, REA, European Commission (2001 – 2017).
- *Reviewer of Greek Research Funding Agencies* (1998 – 2017).
- *Member Environmental Sciences Panel* – SR&TD Project Grants, Fundação para a Ciência e a Tecnologia (FCT), Portugal (2014 – 2024).
- *Member of Expert Panel for Strategic Basic Research*, Research Foundation - Flanders (FWO), Belgium (2018-2020)

Journal Editorial Boards

Microplastics (MDPI) Editor-in-Chief;
New Biotechnology (Elsevier) Associate Editor;
Reviews of Environmental Contamination and Toxicology (Nature-Springer) Associate Editor;

Scientific Reports (Nature-Springer);
Microbial Biotechnology (Wiley & Society for Applied Microbiology);
Trends in Biotechnology (Elsevier Publishers);
Clean Technologies (MDPI);
Recent Patents on Engineering (Bentham Science Publishers);
The Open Chemical Engineering Journal (Bentham Science Publishers);
Journal of Environmental Engineering & Management (TU–Iasi).

Guest Editor

Guest editor in special journal issues on bioremediation and/or phytoremediation:

Water Air Soil Pollution: Focus;
Environment International;
Biodegradation;
Journal of Chemical Technology and Biotechnology (3 times);
European Journal of Soil Biology (2 times);
Process Biochemistry;
International journal of Phytoremediation;
New Biotechnology (3 times)

Funded Research (competitive research programs since 2010)

Funding agency & Project title	Budget	Period
Prima – SPORE-MED – R&I action program Sustainable upgraded WWTPs for resource recovery, water reuse and health surveillance in the Mediterranean region (Total project funding: 3.347.684 €)	330.000 €	2024-27
Horizon Europe – NYMPHE – R&I action program New system-driven bioremediation of polluted habitats and environment (Total project funding: 6.159.976 €)	267.751 €	2023-26
EU-Horizon2020 – MINAGRIS – R&I action program Micro- and NANO-Plastics in AGRicultural Soils: sources, environmental fate and impacts on ecosystem services and overall sustainability. (Total project funding: 6.999.972 €)	147.187 €	2021-26
GR-HFRI /Faculty – X-PRESS – Research Grant “EXtreme environments: High PREssure Sampling and experimentation system for deep-sea hydrocarbon releases”	178.000 €	2021-24
EU-ERA-MIN2 – nanoBT – R&I action program Application of nano-bubble technologies to mining industry operations (Coordinator, Total project funding: 540.000 €)	202.500 €	2020-23
EU-Horizon2020 – ELECTRA – R&I action program Electricity driven Low Energy and Chemical input Technology for Accelerated bioremediation. (Total project funding: 6.000.000 €)	275.625 €	2018-22
EU-Horizon2020 – OILY MICROCOSM – Marie Curie IF Global (TUC & MIT) Mechanistic Microscale Approach to the Microbial Degradation of Oil Droplets in Subsea Crude Oil Releases (postdoc: Dr. G. Kapellos)	176.408 €	2017-20
EU-Horizon2020 – MADFORWATER – R&I action program Development and application of integrated technological and management Solutions for wastewater treatment and efficient reuse in agriculture tailored to the needs of Mediterranean African Countries (Total project funding: 2.910.868 €)	215.000 €	2016-20
EU-Horizon2020 – INMARE – Innovation action program Industrial Applications of Marine Enzymes: Innovative screening and expression platforms to discover and use the functional protein diversity from the sea. (Total project funding: 6.000.000 €)	250.000 €	2015-19
EU-FP7- KILL•SPILL – RTD program Integrated Biotechnological Solutions for Combating Marine Oil Spills (Coordinator, Total project funding: 8.996.599 €)	448.080 €	2013-16
EU-FP7- BIOCLEAN – RTD program “New biotechnological approaches for biodegrading and promoting the environmental biotransformation of synthetic polymeric materials” (Total project funding: 2.995.988 €)	300.000 €	2012-15
EU-FP7- WATER4CROPS – RTD program “Integrating biotreated wastewater reuse and valorization with enhanced water use efficiency (WEF) to support the Green Economy in EU and India” (Total project funding: 5.973.764 €)	200.000 €	2012-16
GR-GSRT – program SYNERGASIA-II “Microalgae – Bioproducts” (Total project funding 650.000 €)	146.800 €	2012-15

EU-LIFE10 ENV/GR/601- CHARM "Chromium in Asopos groundwater system: remediation technologies and measures" (Total project funding 2.708.267 €)	590.538 €	2011-15
GR-GSRT – program HERAKLEITOS-II "Oil spill bioremediation in marine environments"	45.000 €	2010-13
GR-GSRT – program HERAKLEITOS-II "Membrane Bioreactor for municipal wastewater treatment"	45.000 €	2010-13
EU-FP7- Minotaurus – RTD program "Microorganism and enzyme immobilization: Novel techniques and approaches for upgraded remediation of underground-, wastewater and Soil" (Total project funding: 3.908.064 €)	289.864 €	2010-13
EU-FP7- Ulixes – RTD program "Unravelling and exploiting Mediterranean Sea microbial diversity and ecology for Xenobiotics' and pollutants' clean up" (Total project funding: 3.902.892 €)	285.004 €	2010-13
GR-Ministry of Environment & Climate Change - Contract "Scientific support to the Water Agency" – Coordinator	147.600 €	2010-11

Plus, another 56-research projects over the period 1984 to 2010. Total research funding exceeds 20 million €.

Publications by Prof. Nicolas Kalogerakis

(257 papers & 12 editorials, Scopus: Citations > 14800, H-index 66; Google Scholar: Citations >21100, H-index 80; ORCID# 0000-0001-7033-0302)

Patents

1. Docoslis, A., N. Kalogerakis, L.A. Behie and K.V.I.S. Kaler, "Filter for Perfusion Cultures of Animal Cells and the Like", US Patent 5,626,734 (May 6, 1997).
2. Koukaras, K., N. Kalogerakis, E.N. Kampouris, "Toxic Heavy Metals Removal System for Shellfish", World patent WO 2009/083742 A1 (July 9, 2009).
3. Psillakis, E. and N. Kalogerakis, "Vacuum Assisted Headspace Microextraction sampling apparatus and method", Greek patent (2012) EL 20110100054.
4. Kalogerakis, N., S. Fodelianakis, E. Antoniou, E. Korkaraki, "Production and application of a novel Bioaugmentation Pad for marine oil spills", Greek patent (2015) EL 20140100211.
5. Antoniou, E., N. Kalogerakis, "Biosurfactant production of high purity by marine bacteria degrading the heavy fraction of crude oil", Greek patent (2017) EL 20171009585.
6. Syranidou, E., N. Kalogerakis, "Perpetual recycling of C-C backbone weathered plastics by tailored marine consortia", Greek patent (2021) EL 20211010041.

Recent refereed journal publications (2011 - present)

1. Seridou P, V Karmali, E Syranidou, K Karkanorachaki, A Fountoulakis, K Komnitsas, G Kolliopoulos, N Kalogerakis, "Capacity of Nerium oleander to phytoremediate mine spoils assisted by air nanobubbles and biochar", *Minerals Eng.*, 228, 109295 (2025). <https://doi.org/10.1016/j.mineng.2025.109295>
2. Seridou, P.; Karmali, V.; Syranidou, E.; Komnitsas, K.; Kolliopoulos, G.; Kalogerakis, N., "Assessment of *Tamarix smyrnensis* for Phytoremediation Capacity of Laterite Mine Spoils", *Plants*, 14, 491 (2025). <https://doi.org/10.3390/plants14030491>
3. Magiopoulos, I., C. Chantzaras, F. Romano, E. Antoniou, K. Symiakaki, R. Almeda, I. Kalantzi, K. Mylona, C. Parinos, C. Pavludi, M. Tsapakis, G. Zanaroli, N. Kalogerakis, P. Pitta, "Is *in-situ* burning an acceptable mitigation option after a major oil spill? Impact on marine plankton", *Science of The Total Environment*, 955, 177249 (2024). <https://doi.org/10.1016/j.scitotenv.2024.177249>.
4. Kapellos, G.E., H.J. Eberl, N. Kalogerakis, P.S. Doyle, C.A. Paraskeva, "Bacterial clustering amplifies the reshaping of eutrophic plumes around marine particles: A hybrid data-driven model", *PLOS Computational Biology*, 20 (12), e1012660 (2024). <https://doi.org/10.1371/journal.pcbi.1012660>
5. Syranidou, E., F. Pyrrilli, A. Fountoulakis, G. Constantinides, N. Kalogerakis, M. Koutinas. "Biodegradation of thermoplastic starch by a newly isolated active microbial community: Deciphering the biochemical mechanisms controlling bioprocess robustness", *Chemical Engineering Journal*, 499, 155957 (2024). <https://doi.org/10.1016/j.cej.2024.155957>

6. Montazeri, S.M., N. Kalogerakis, G. Kolliopoulos, "CO₂ nanobubbles as a novel kinetic promoter in hydrate-based desalination", *Desalination*, 574, 117296, (2024). <https://doi.org/10.1016/j.desal.2024.117296>.
7. Charalampous, G., E. Fragkou, N. Kalogerakis, E. Antoniou, E. Gontikaki, "Diversity links to functionality: Unraveling the impact of pressure disruption and culture medium on crude oil-enriched microbial communities from the deep Eastern Mediterranean Sea", *Marine Pollution Bulletin*, 202, 116275 (2024). <https://doi.org/10.1016/j.marpolbul.2024.116275>.
8. Seridou, P., K. Fyntrilakis, S. Kyritsi, E. Syranidou, N. Kalogerakis, "Effect of endophytic bacteria on the phytoremediation potential of halophyte *Tamarix smyrnensis* for Sb-contaminated soils", *International Journal of Phytoremediation*, (2023). [DOI: 10.1080/15226514.2023.2288144](https://doi.org/10.1080/15226514.2023.2288144)
9. Montazeri, S.M., N. Kalogerakis & G. Kolliopoulos, "Effect of chemical species and temperature on the stability of air nanobubbles", *Sci Rep* 13, 16716 (2023). <https://doi.org/10.1038/s41598-023-43803-6>
10. Varamogianni-Mamatsi, MJ Nunes, V Marques, TI Anastasiou, E. Kagiampaki, E. Vernadou, T. Dailianis, N. Kalogerakis, L.C Branco, C. MP Rodrigues, R.G Sobral, S.P Gaudêncio, M. Mandalakis, "Comparative Chemical Profiling and Antimicrobial/Anticancer Evaluation of Extracts from Farmed versus Wild *Agelas oroides* and *Sarcotragus foetidus* Sponges", *Marine Drugs*, 21 (12), 612 (2023). <https://doi.org/10.3390/md21120612>
11. Varamogianni-Mamatsi, D, TI Anastasiou, E Vernadou, N Kouvarakis, E. Kagiampaki, N. Kalogerakis, T. Dailianis, M. Mandalakis, "Uptake of aquaculture-related dissolved organic pollutants by marine sponges: Kinetics and mechanistic insights from a laboratory study", *Science of The Total Environment*, 899, 165601 (2023). <https://doi.org/10.1016/j.scitotenv.2023.165601>
12. Karkanorachaki, K., E. Syranidou, N. Kalogerakis, "Extreme weather events as an important factor for the evolution of plastisphere but not for the degradation process", *Water Research*, 246,120687, (2023). <https://doi.org/10.1016/j.watres.2023.120687>
13. Karkanorachaki, K., E. Syranidou, P.-N. Maravelaki, N. Kalogerakis, "Intertwined synergistic abiotic and biotic degradation of polypropylene pellets in marine mesocosms", *J. Hazard. Mater.*, 457, 131710 (2023). <https://doi.org/10.1016/j.jhazmat.2023.131710>.
14. Syranidou, E., Karkanorachaki, K., Barouta, D., ...Avgeropoulos, A., Kalogerakis, N., "Relationship between the Carbonyl Index (CI) and Fragmentation of Polyolefin Plastics during Aging", *Environmental Science and Technology*, 57, 21, 8130–8138 (2023). <https://doi.org/10.1021/acs.est.3c01430>
15. Seridou, P., Syranidou, E., Kalogerakis, N., "Hydroponic phytoremediation of antimony by *Tamarix smyrnensis* and *Nerium oleander*", *J. Chem. Tech. Biotech.*, 98 (9), 2214-2223 (2023).
16. Seridou, P., Kotzia, E., Katris, K., Kalogerakis, N., "Ballast water treatment by ozone nanobubbles", *J. Chem. Tech. Biotech.*, (2023). <https://doi.org/10.1002/ictb.7385>
17. Kampouris, T.E., E. Syranidou, P. Seridou, K. Gagoulis, I.E. Batjakas, and N. Kalogerakis, "MPs and NPs intake and heavy metals accumulation in tissues of *Palinurus elephas* (JC Fabricius, 1787), from NW Aegean Sea, Greece", *Environmental Pollution*, 316, 120725 (2023).
18. Petoussi, M.A., Kalogerakis, N., "Mathematical Modeling of Pilot Scale Olive Mill Wastewater Phytoremediation Units". *Sustainability*, 15(11):8630 (2023).
19. Antoniou, E. and N. Kalogerakis, "Laboratory testing of dispersant effectiveness at high pressures", *Can. J. Chem. Eng.*, 101, 772-781 (2023).
20. Saridaki, A., T. Glytsos, L. Raisi, E. Katsivela, G. Tsiamis, N. Kalogerakis, M. Lazaridis, "Airborne particles, bacterial and fungal communities insights of two museum exhibition halls with diverse air quality characteristics", *Aerobiologia*, 39, 69-86 (2023).
21. Petousi, I., V. Thomaidi, N. Kalogerakis, M.S. Fountoulakis, "Removal of pathogens from greywater using green roofs combined with chlorination", *Environ. Science and Pollution Res.*, 30, 22560-22569 (2023).
22. Seridou, P., S. Monogiou, E. Syranidou, N. Kalogerakis, "Capacity of *Nerium oleander* to Phytoremediate Sb-Contaminated Soils Assisted by Organic Acids and Oxygen Nanobubbles", *Plants*, 12, 91 (2023).
23. Kapellos, G.E., H.J. Eberl, N. Kalogerakis, P.S. Doyle, C.A. Paraskeva, "Impact of Microbial Uptake on the Nutrient Plume around Marine Organic Particles: High-Resolution Numerical Analysis", *Microorganisms*, 10, 2020 (2023).
24. Karkanorachaki, K., P. Tsiota, G. Dasenakis, E. Syranidou, and N. Kalogerakis, "Nanoplastic Generation from Secondary PE Microplastics: Microorganism-Induced Fragmentation" *Microplastics*, 1, 85-101 (2022).
25. Petoussi, M. A. and N. Kalogerakis, "Olive mill wastewater phytoremediation employing economically important woody plants", *Journal of Environmental Management*, 302 B, 114076 (2022).
26. Syranidou, E. and N. Kalogerakis, "Interactions of microplastics, antibiotics and antibiotic resistant genes within WWTPs", *Science of The Total Environment*, 804, 150141 (2022).
27. Varamogianni-Mamatsi, D.; Anastasiou, T.I.; Vernadou, E.; Papandroulakis, N.; Kalogerakis, N.; Dailianis, T.; Mandalakis, M. "A Multi-Species Investigation of Sponges' Filtering Activity towards Marine Microalgae", *Marine Drugs*, 20, 24 (2022).
28. Petousi, I., V. Thomaidi, N. Kalogerakis, MS Fountoulakis, "Removal of pathogens from greywater using green roofs combined with chlorination", *Environmental Science and Pollution Research*, 1-10 (2022)

29. Kapellos, GE, HJ Eberl, N Kalogerakis, PS Doyle, CA Paraskeva, "Impact of Microbial Uptake on the Nutrient Plume around Marine Organic Particles: High-Resolution Numerical Analysis", *Microorganisms*, 10, 2020 (2022).
30. Thomaidi, V, I Petousi, D Kotsia, N Kalogerakis, MS Fountoulakis "Use of green roofs for greywater treatment: Role of substrate, depth, plants, and recirculation", *Science of The Total Environment* 807, 151004 (2022).
31. Antoniou, E., E Fragkou, G Charalampous, D Marinakis, N Kalogerakis, and E. Gontikaki, "Emulating Deep-Sea Bioremediation: Oil Plume Degradation by Undisturbed Deep-Sea Microbial Communities Using a High-Pressure Sampling and Experimentation System", *Energies* 15 (13), 4525 (2022).
32. Saridaki, A., T Glytsos, L Raisi, E Katsivela, G Tsiamis, N Kalogerakis, and M. Lazaridis, "Airborne particles, bacterial and fungal communities insights of two museum exhibition halls with diverse air quality characteristics", *Aerobiologia*, 1-18 (2022).
33. Saridaki, A., E. Katsivela, T. Glytsos, G. Tsiamis, E. Violaki, A. Kaloutsakis, N. Kalogerakis, M. Lazaridis, "Identification of bacterial communities on different surface materials of museum artefacts using high throughput sequencing", *J. Cultural Heritage*, 54: 44-52 (2022).
34. Kalogerakis, N., "Microplastics—A New Journal on the Environmental Challenges and Adverse Health Effects of Microplastics", *Microplastics*, 1, 1-2 (2022).
35. Seridou P. and N. Kalogerakis "Disinfection applications of ozone micro- and nanobubbles", *Environ. Sci.: Nano*, 8, 3493–3510 (2021).
36. Ntentakis DP, Ntentaki AM, Delavogia E, Kalomoiris L, Venieri D, Arkadopoulos N, Kalogerakis N, "Dissolved oxygen technologies as a novel strategy for non-healing wounds: A critical review", *Wound Rep Reg.*, 1-18, (2021).
37. Fragkou, E., Antoniou, E., Daliakopoulos, I., Manios, T., Theodorakopoulou, M., Kalogerakis, N. "In Situ Aerobic Bioremediation of Sediments Polluted with Petroleum Hydrocarbons: A Critical Review", *J. Mar. Sci. Eng.*, 9, 1003 (2021).
38. Karkanorachaki, K., E. Syranidou, N. Kalogerakis, "Sinking characteristics of microplastics in the marine environment", *Science of The Total Environment*, 793, 148526 (2021).
39. Kalogerakis N., G.C. Kalogerakis, Q.P. Botha, "Environmental applications of nanobubble technology: Field testing at industrial scale", *Can. J. Chem. Eng.*, 99, 2345–2354 (2021).
40. Mandalenaki A, Kalogerakis N, Antoniou E. "Production of High Purity Biosurfactants Using Heavy Oil Residues as Carbon Source", *Energies*, 14, 3557 (2021).
41. Makaroglou, G., H. Marakas, S. Fodelianakis, A. Axaopoulou, I. Koumi, N. Kalogerakis, P. Gikas, "Optimization of biomass production from *Stichococcus* sp. biofilms coupled to wastewater treatment", *Biochemical Engineering Journal*, 169: 107964 (2021).
42. Charalampous, G.; Fragkou, E.; Kormas, K.A.; De Menezes, A.B.; Polymenakou, P.N.; Pasadakis, N.; Kalogerakis, N.; Antoniou, E.; Gontikaki, E. "Comparison of Hydrocarbon-Degrading Consortia from Surface and Deep Waters of the Eastern Mediterranean Sea: Characterization and Degradation Potential", *Energies*, 14, 2246 (2021).
43. Wang, T., L. Wang, Q. Chen, N. Kalogerakis, Rong Ji, Yini Ma, "Interactions between microplastics and organic pollutants: Effects on toxicity, bioaccumulation, degradation, and transport", *Science of The Total Environment*, 748: 142427 (2020).
44. Christofilopoulos, S., A. Kaliakatsos, I. Gounaki, D. Venieri and N. Kalogerakis, "Evaluation of a constructed wetland for wastewater treatment: Addressing emerging organic contaminants and antibiotic resistant bacteria", *New Biotechnology*, 52: 94-103 (2019).
45. Kaliakatsos, A., S. Christofilopoulos, N. Kalogerakis and D. Venieri "Efficiency of two constructed wetland systems for wastewater treatment: removal of bacterial indicators and enteric viruses", *J. Chem. Techn. Biotechnol.*, 94: 2123–2130 (2019).
46. Riva V., F. Mapelli, E. Syranidou, E. Crotti, R. Choukrallah, Ni. Kalogerakis and S. Borin, "Root Bacteria Recruited by *Phragmites australis* in Constructed Wetlands Have the Potential to Enhance Azo-Dye Phytodepuration", *Microorganisms*, 7: 384 (2019).
47. Tian, I., Q. Chien, W. Jiang, L. Wang, H. Xie, N. Kalogerakis, Y. Ma and R. Ji, "A carbon-14 radiotracer-based study on the phototransformation of polystyrene nanoplastics in water versus in air", *Environ. Sci.: Nano*, 6: 2907-2917 (2019).
48. Syranidou E, Karkanorachaki, K, Amorotti F, Avgeropoulos A, Kolvenbach B, Zhou N-Y, Fava F, Corvini P and Kalogerakis N, "Biodegradation of mixture of plastic films by tailored marine consortia", *J. Hazard. Mater.*, 375: 33–42 (2019).
49. Cappello S, Cruz Viggi C, Yakimov M, Rossetti S, Matturro B, Molina L, Segura A, Marques S, Yuste L, Sevilla E, Rojo F, Sherry A, Mejeha OK, Head IM, Malmquist L, Christensen JH, Kalogerakis N and Aulenta F, "Combining electrokinetic transport and bioremediation for enhanced removal of crude oil from contaminated marine sediments: Results of a long-term, mesocosm-scale experiment" *Water Research*, 157 (2019) 381-395.
50. Lilli MA, Nikolaos P. Nikolaidis NP, George P. Karatzas GP, Nicolas Kalogerakis N, "Identifying the controlling mechanism of geogenic origin Cr release in soils", *J. Hazard. Mater.*, 366: 169–176 (2019).

51. Syranidou E, Thijs S, Avramidou M, Weyens N, Venieri D, Pintelon I, Vangronsveld J and Kalogerakis N, "Responses of the Endophytic Bacterial Communities of *Juncus acutus* to Pollution with Metals, Emerging Organic Pollutants and to Bioaugmentation with Indigenous Strains", *Front. Plant Sci.* 9:1526 (2018).
52. Karkanorachaki K, Kiparissis S, Kalogerakis GC, Yiantzi E, Psillakis E, Kalogerakis N, "Plastic pellets, meso- and microplastics on the coastline of Northern Crete: Distribution and organic pollution", *Marine Pollution Bulletin*, 133, 578–589 (2018).
53. Kapellos GE, Paraskeva CA, Kalogerakis N and Doyle PS, "Theoretical Insight into the Biodegradation of Solitary Oil Microdroplets Moving through a Water Column", *Bioengineering*, 5, 15 (2018).
54. Frascari D, Zanaroli G,... Kalogerakis, N,... Ortega CV, "Integrated technological and management solutions for wastewater treatment and efficient agricultural reuse in Egypt, Morocco and Tunisia", *Integrated Environmental Assessment & Management*, 14: 447-462 (2018).
55. Syranidou E, Karkanorachaki K, Amorotti F, Franchini M, Repouskou E, Kaliva M, Vamvakaki M, Kolvenbach B, Fava F, Corvini PF-X, Kalogerakis N. "Biodegradation of weathered polystyrene films in seawater microcosms", *Scientific Reports*, 7:17991 (2017).
56. Syranidou E, Karkanorachaki K, Amorotti F, Repouskou E, Kroll K, Kolvenbach B, Corvini PF-X, Fava F, Kalogerakis N. "Development of tailored indigenous marine consortia for the degradation of naturally weathered polyethylene films", *PLoS ONE*, 12(8): e0183984 (2017).
57. Mapelli, F., Scoma, A., Michoud, G., Aulenta, F., Boon, N., Borin, S., Kalogerakis, N., Daffonchio, D., "Biotechnologies for Marine Oil Spill Cleanup: Indissoluble Ties with Microorganisms", *Trends in Biotechnology*, 9: 860-870 (2017).
58. Kalogerakis N, Karkanorachaki K, Kalogerakis GC, Triantafyllidi E, Gotsis AD, Partsinevelos P and Fava F., "Microplastics generation: Onset of fragmentation of polyethylene films in marine environment mesocosms". *Front. Mar. Sci.* 4: 84 (2017).
59. Syranidou, E., S. Christofilopoulos and N. Kalogerakis, "Juncus spp.—The halophyte for all (phyto)-remediation purposes?", *New Biotechnology*, 38: 43–55 (2017).
60. Syranidou, E., S. Christofilopoulos, M. Politi, N. Weyens, D. Venieri, J. Vangronsveld and N. Kalogerakis "Bisphenol-A removal by the halophyte *Juncus acutus* in a phytoremediation pilot: Characterization and potential role of the endophytic community", *J. Hazard. Mater.*, 323: 350–358 (2017).
61. Lilli MA, Syranidou E, Palliou A, Nikolaidis NP, Karatzas G, Kalogerakis N, "Assessing the impact of geogenic chromium uptake by carrots (*Daucus carota*) grown in Asopos river basin", *Environmental Research*, 152: 96–101 (2017).
62. Fountoulakis, M.S., Daskalakis, G., Papadaki, A., Kalogerakis, N. and Manios, Th., "Use of halophytes in pilot-scale horizontal flow constructed wetland treating domestic wastewater". *Environ Sci Pollut Res*, 24: 16682–16689 (2017)
63. Christofilopoulos, S., E. Syranidou, G. Gkavrou, E. Manousaki and N. Kalogerakis, "The role of halophyte *J. acutus* L. in the remediation of mixed contamination in a hydroponic greenhouse experiment", *J. Chem. Technol. Biotechnol.*, 91: 1665–1674 (2016).
64. Syranidou E, Christofilopoulos S, Gkavrou G, Thijs S, Weyens N, Vangronsveld J and Kalogerakis N, "Exploitation of Endophytic Bacteria to Enhance the Phytoremediation Potential of the Wetland Halophyte *Juncus acutus*", *Frontiers in Microbiology*, 7: 1016 (2016).
65. Paranychanakis NV, M Tsiknia, and N Kalogerakis, "Pathways regulating the removal of nitrogen in planted and unplanted subsurface flow constructed wetlands", *Water Research*, 102: 321-329 (2016).
66. Yiantzi, E, Kalogerakis, N, Psillakis, E, "Design and testing of a new sampler for simplified vacuum-assisted headspace solid-phase microextraction", *Analytica Chimica Acta*, 927: 46-54 (2016).
67. Dokou, Z., V. Karagiorgi, G.P. Karatzas, N.P. Nikolaidis, N. Kalogerakis, "Large scale groundwater flow and hexavalent chromium transport modeling under current and future climatic conditions: the case of Asopos River Basin", *Environmental Science and Pollution Research*, 23: 5307-5321 (2016).
68. Fodelianakis, S., E. Antoniou, F. Mapelli, M. Magagnini, M. Nikolopoulou, R. Marasco, M. Barbato, A. Tsiola, I. Tsikopoulou, L. Giaccaglia, M. Mahjoubi, A. Jaouani, R. Amer, E. Hussein, F.A. Al-Horani, F. Benzha, M. Blaghe, H.I. Malkawi, Y. Abdel-Fattah, A. Cherif, D. Daffonchio and N. Kalogerakis, "Allochthonous bioaugmentation in *ex situ* treatment of crude oil-polluted sediments in the presence of an effective degrading indigenous microbiome", *J. Hazard. Mater.*, 287: 78-86 (2015).
69. Babatsouli, P., S. Fodelianakis, N. Paranychanakis, D. Venieri, M. Dialynas, N. Kalogerakis, "Single Stage Treatment of Saline Wastewater with Marine Bacterial-Microalgae Consortia in a Fixed-bed Photobioreactor", *J. Hazard. Mater.*, 292: 155-163 (2015).
70. Bargiela, R, F Mapelli, D Rojo, B Chouaia, J Tornés... "Bacterial population and biodegradation potential in chronically crude oil-contaminated marine sediments are strongly linked to temperature", *Scientific Reports* 5, Article number: 11651 (2015) doi:10.1038/srep11651.
71. Gertler, C, R Bargiela, F Mapelli, X Han, J Chen, T Hai... "Conversion of Uric Acid into Ammonium in Oil-Degrading Marine Microbial Communities: a Possible Role of Halomonads" *Microbial ecology*, 70: 724-740 (2015).
72. Yiantzi, E, Kalogerakis, N, Psillakis, E, "Vacuum-assisted headspace solid phase microextraction of polycyclic aromatic hydrocarbons in solid samples", *Analytica Chimica Acta*, 890: 108-116 (2015).

73. Babatsouli, P., Palogos, I., Michalodimitraki, E., Costa, C., Kalogerakis, N. "Evaluation of a MBR pilot treating industrial wastewater with a high COD/N ratio", *J. Chem. Techn. Biotechnol.*, 90: 26-33 (2015).
74. Antoniou E, Fodelianakis S, Korkakaki E and Kalogerakis N "Biosurfactant production from marine hydrocarbon-degrading consortia and pure bacterial strains using crude oil as carbon source", *Front. Microbiol.* 6: 274 (2015).
75. Kalogerakis N, J Arff, IM Banat, OJ Broch, D Daffonchio, T Edvardsen, H. Equiraun, L Giuliano, A Handa, K Lopez-de-Ipina, I Marigomez, I Martinez, G Oie, F Rojo, J Skjermo, G Zanolli and F Fava, "The role of environmental biotechnology in exploring, exploiting, monitoring, preserving, protecting and decontaminating the marine environment", *New Biotechnology*, 32: 157-167 (2015).
76. Mauro Majone, M, R Verdini, F Aulenta, S Rossetti, V Tandoi, N Kalogerakis, S Agathos, S Puig, G Zanolli, F Fava, "In situ groundwater and sediment bioremediation: barriers and perspectives at European contaminated sites", *New Biotechnology*, 32: 133-146 (2015).
77. Dimitroula, H, Syranidou, E, Manousaki, E, Nikolaidis, NP, Karatzas, GP, Kalogerakis, N. "Mitigation measures for chromium-VI contaminated groundwater – The role of endophytic bacteria in rhizofiltration", *J. Hazard. Mater.*, 281: 114-120 (2014).
78. Lilli, MA, Daniel Moraetis, D, Nikolaidis, NP, Karatzas, GP, Kalogerakis, N. "Characterization and mobility of geogenic chromium in soils and river bed sediments of Asopos basin", *J. Hazard. Mater.* 281: 12-19 (2014).
79. Manousaki, E., K. Galanaki, L. Papadimitriou and N. Kalogerakis, "Metal Phytoremediation by the Halophyte *Limoniastrum Monopetalum* (L.) Boiss: Two Contrasting Ecotypes", *Int. J. Phytoremediation*, 16: 755–769 (2014).
80. Petoussi, M.A., S. Christofilopoulos and N. Kalogerakis, "Dynamics of a rhizodegradation pilot unit treating groundwater contaminated with Bisphenol-A", *Environmental Engineering Management J.*, 13: 2173–2178 (2014).
81. Palogos I, Babatsouli P, Costa C, Kalogerakis N "Computer simulation of a submerged membrane bioreactor treating high COD industrial wastewater", *Front. Environ. Sci.*, 2: 30 (2014). doi: 10.3389/fenvs.2014.00030
82. Daffonchio, D., et al., "Bioremediation of Southern Mediterranean oil polluted sites comes of age", *New Biotechnology*, 30: 743-748 (2013).
83. Nikolopoulou, M., N. Pasadakis, H. Norf and N. Kalogerakis, "Enhanced ex situ bioremediation of crude oil contaminated beach sand by supplementation with nutrients & Rhamnolipids", *Mar. Pollut. Bull.* 77: 37–44 (2013).
84. Nikolopoulou, M., P. Eickenbusch, N. Pasadakis, D. Venieri and N. Kalogerakis, "Microcosm evaluation of autochthonous bioaugmentation to combat marine oil spills", *New Biotechnology*, 30: 734-742 (2013).
85. Psillakis, E, E. Yiantzi, N. Kalogerakis, "Downsizing vacuum-assisted headspace solid phase microextraction", *J. Chrom A*, 1300: 119-126 (2013).
86. Kalogerakis, N., M. Politi, S. Foteinis, E. Chatzisyneon, D. Mantzavinos, "Recovery of antioxidants from olive mill wastewaters: A viable solution that promotes their overall sustainable management", *Journal of Environmental Management*, 128: 749-758 (2013)
87. Paranychanakis, NV, M Tsiknia, G Giannakis, NP Nikolaidis, N Kalogerakis, "Nitrogen cycling and relationships between ammonia oxidizers and denitrifiers in a clay-loam soil", *Applied Microbiology and Biotechnology*, 97: 5507-5515 (2013)
88. Nikolopoulou, M., N. Pasadakis, N. Kalogerakis, "Evaluation of autochthonous bioaugmentation and biostimulation during microcosm-simulated oil spills", *Mar. Pollut. Bull.* 72: 165–173 (2013).
89. Papaphilippou, PC, C Yiannapas, M Politi, VM Daskalaki, C Michael, N Kalogerakis, D Mantzavinos, D Fatta-Kassinos, "Sequential coagulation–flocculation, solvent extraction and photo-Fenton oxidation for the valorization and treatment of olive mill effluent", *Chemical Engineering Journal*, 224: 82-88 (2013).
90. Psillakis, E, Yiantzi, E, Sanchez-Prado, L, Kalogerakis, N, "Vacuum-assisted headspace solid phase microextraction: Improved extraction of semivolatiles by non-equilibrium headspace sampling under reduced pressure conditions", *Analytica Chimica Acta*, 742: 30-36 (2012).
91. Sanchez-Prado, L, Kalafata, K, Risticvic, S, Pawliszyn, J, Lores, M, Llompert, M, Kalogerakis, N, Psillakis, E, "Ice photolysis of 2,2',4,4',6-pentabromodiphenyl ether (BDE-100): Laboratory investigations using solid phase microextraction", *Analytica Chimica Acta*, 742: 90-96 (2012).
92. Daffonchio, D et al., "ULIXES, unravelling and exploiting Mediterranean Sea microbial diversity and ecology for xenobiotics' and pollutants' clean up", *Reviews in Environmental Science and Bio-Technology*, 11: 207-211 (2012).
93. Psillakis, E, Mousouraki, A, Yiantzi, E, Kalogerakis, N, "Effect of Henry's law constant and operating parameters on vacuum-assisted headspace solid phase microextraction", *J. Chrom A*, 1244: 55-60 (2012).
94. Moraetis, D, Nikolaidis, NP, Karatzas, GP, Dokou, Z, Kalogerakis, N, Winkel, LHE, Palaogianni-Bellou, A, "Origin and mobility of hexavalent chromium in North-Eastern Attica, Greece", *Applied Geochemistry*, 27: 1170-1178 (2012).
95. Manousaki E and N Kalogerakis, "Halophytes Present New Opportunities in Phytoremediation of Heavy Metals and Saline Soils", *Industrial & Engineering Chemistry Research*, 50: 656-660 (2011).

96. Moraetis, D., Stamati, F.E., Nikolaidis, N.P., Kalogerakis, N., "Olive mill wastewater irrigation of maize: Impacts on soil and groundwater", *Agricultural Water Management*, 98: 1125 - 1132 (2011).
 97. Stamati FE, Nikolaidis NP, Venieri D, Psillakis E. and Kalogerakis N., "Dissolved organic nitrogen as an indicator of livestock impacts on soil biochemical quality", *Applied Geochemistry* 26: S340-S343 (2011).
 98. Manousaki, E. and N. Kalogerakis, "Halophytes – a new trend in phytoremediation", *Int. J. Phytoremediation*, 13: 959-969 (2011).
 99. Latos M, P Karageorgos, N Kalogerakis and M Lazaridis, "Dispersion of Odorous Gaseous Compounds Emitted from Wastewater Treatment Plants", *Water Air Soil Pollution*, 215: 667–677 (2011).
- Plus, 12 editorial prefaces to special journal issues. All publications including those over the period 1979 to 2011 are available at*
https://scholar.google.gr/citations?hl=en&user=-WFM8mkAAAAJ&pagesize=80&view_op=list_works

Books and Book Chapters

1. Nikolopoulou, M & N. Kalogerakis, "Petroleum Spill Control with Biological Means" In: *Comprehensive biotechnology*, Academic Press, pp 197-208, 2019
2. Tsiota, P.; Karkanorachaki, K.; Syranidou, E.; Franchini, M.; Kalogerakis, N. Microbial Degradation of HDPE Secondary Micro- plastics: Preliminary Results. In Proceedings of the International Conference on Microplastic Pollution in the Mediterranean Sea, pp 181–188, 2018. doi: 10.1007/978-3-319-71279-6.
3. Nikolopoulou, M & N. Kalogerakis, "Ex Situ Bioremediation Treatment (Landfarming)" In: *Hydrocarbon and Lipid Microbiology Protocols: Pollution Mitigation and Waste Treatment Applications*, Springer Protocols Handbooks, pp 195-220, 2016.
4. Nikolopoulou M. & N. Kalogerakis, "Bioreactor Design to Emulate Deep-Sea Hydrocarbon Releases Including Formation of Gas Hydrates" In: *Hydrocarbon and Lipid Microbiology Protocols*, Springer Protocols Handbooks, pp 65-78, 2016.
5. Nikolopoulou, M & N. Kalogerakis, "Biostimulation strategies for enhanced bioremediation of marine oil spills including chronic pollution" In: *Handbook of hydrocarbon and lipid microbiology*, pp 2521-2529, 2010 (updated version in 2016).
6. Kalogerakis, N. & S. Christofilopoulos, "Rhizodegradation in constructed wetlands" In: *Immobilized Biocatalysts for Bioremediation of Groundwater and Wastewater*. Eds. Hochstrat R, Wintgens T, Corvini P, IWA Publishing; p. 97–105. 2015.
7. Kalogerakis, N., "Ex-situ Bioremediation of Contaminated Soils" In: *Soil and Sediment Remediation*, Eds. Liens, P., T. Grotenhuis and H. Tabak, IWA Publishing, 151-175, 2005.
8. Kalogerakis, N., "Innovative Slurry-Phase and Solid-Phase Technologies for Soil Bioremediation" In: *Innovative approaches to the bioremediation of contaminated sites*, Ed. Fava, F., 2005.
9. Kalogerakis, N., "A Sequential Approach to Nonlinear Regression of Ill-Conditioned Multi-parameter ODE Models", In: *Recent Developments in Optimization and Optimal Control in Chemical Engineering*, Ed. R. Luus, 19-35, 2002.
10. Englezos, P. and N. Kalogerakis, *Applied Parameter Estimation for Chemical Engineers*, Marcel Dekker, New York, NY, 2001.

Plus, another eight (8) book chapters in the period 1986 – 1996.

Presentations at Scientific Conferences.

More than 250 presentations at international conferences and professional meetings. Many invited presentations at International Conferences, Universities & Research Organizations as well as European Commission workshops.

Recent Invited Presentations (2016 – 2025) – Keynote or Plenary

1. "Combating microplastic pollution in the marine environment", 1st SUSTENS Meeting (virtual) on 4-5 June 2025
2. "Mitigation measures to tackle microplastic pollution in the marine environment", CRETE 2025 – Industrial & Hazardous Waste Management, Chania, Crete May 27-31, 2025
3. "Fate of plastics and microplastics in agricultural soils", BioBio 2024, Prague, Chechia, June 19, 2024.
4. "Fate of C-C backbone plastics and microplastics in the marine environment and in agricultural soils", University of Alcalá, Spain, Feb 17, 2023.
5. "Natural attenuation of plastics and microplastics in the marine environment: Can we hope for clean oceans?", talk@EEH, Oct 20, 2022.
6. "Plastics and microplastics pollution: Are nature-based solutions possible?", 1st International Conference on Sustainable Chemical & Environmental Engineering, Rethymno, Greece, Aug 31- Sept 4, 2022.
7. "Ecosystem and engineering process applications of air nanobubbles", 5th International Conference of

Chemical Engineering, Iasi, Romania, Oct 28-30, 2020.

8. *"Biodegradation of C-C backbone plastics and microplastics in the marine environment"*, University of Toronto (Lecture on Leading Edge series), Toronto, Canada, Oct 30, 2019.
9. *"Biodegradation of plastics and secondary microplastics in the marine environment"*, ISPTS-2019 conference, Hoboken, NJ, USA, Oct 25-28, 2019.
10. *"Biodegradation of microplastics and nanoplastics in the marine environment"*, McGill University (EUL series), Montreal, Canada, Oct 23, 2019.
11. *"Biodegradation of Secondary Microplastics and Nanoplastics in the Marine Environment"*, 15th International Symposium on Persistent Toxic Substances, Basel, Switzerland, 6-9 Nov 2018.
12. *"Plastics degradation processes in the marine environment"*, Plastic Litter in Mediterranean Sea: Problems and Solutions, ECOMONDO-2018, Rimini, Italy, Nov 6-9, 2018.
13. *"Management and Bioremediation of Marine Oil Spills"*, Sustainable Source Zone Remediation, ECOMONDO-2018, Rimini, Italy, Nov 6-9, 2018.
14. *"Biodegradation of mesoplastics and microplastics by indigenous marine microbes and generation of nanoplastics due to biodegradation"*, 4th International Conference on Environmental Pollution and Health, Tianjin, China, 18-20 May 2018
15. *"Mitigation measures for pollution in the marine environment"*, International Conference on Environmental Pollution, Risk Assessment and Remediation, Mahdia – Tunisia, 19-20 April 2018
16. *"Can biodegradation of plastics and microplastics be an effective solution for marine litter?"*, ECOMONDO-2017, Rimini, Italy, Nov 7-10, 2017.
17. *"Bio-degradation of PE and PS films in the marine environment: Any hope for clean oceans?"*, 9th International Conference on Environmental Engineering & Management, Bologna, Italy, Sept 6-9, 2017.
18. *"Biodegradation Kinetics of Weathered Marine Litter – Polyethylene and Polystyrene Plastic Films"*, 6th Intl Symposium on Biosorption, Biodegradation/bioremediation, Prague, Czech Republic, June 25 – 29, 2017.
19. *"Bio-degradation of plastic debris in the marine environment: Any hope for clean oceans?"*, University of Waterloo, Dept of Chemical Engineering, June 2, 2017
20. *"Innovations needed for a Litter-free Mediterranean Sea"*, European Commission - BLUEMED – A basin of research and innovation for sustainable growth, Sliema, Malta, April 18-19, 2017.
21. *"Combating Marine Oil Spills Employing Biotechnological Methods"*, 7th Conference of the Scientific Society "Mikrobiokosmos", Athens, Greece, April 7-9, 2017.
22. *"Bio-degradation of plastic debris in the marine environment: Any hope for a clean Med Sea?"*, Tackling marine litter from research to action, European Parliament, Brussels, Belgium, Feb 1, 2017.
23. *"The role of endophytic bacteria in phytoremediation"*, State-of-the-art technologies: challenge for the research in Agricultural and Food Sciences, Belgrade, Serbia, April 18-20, 2016.
24. *"Biotechnologies for marine oil spills"*, Environment & Natural Materials Research Institute at SRTA-City, Alexandria, Egypt, April 4-6, 2016.
25. *"Integrated biotechnological solutions for combating marine oil spills"*, 1st Applied Biotechnology, Biodegradation & Environmental Management (ABBEM) Conference, Agrinio, Greece, Jan 28-29, 2016.

Conference Organization

Conference Chair of the European Bioremediation Conferences (I to IX) held in Chania, Crete Greece (2001 to 2025). First two conferences funded by EU's Marie Curie - High Level Conferences (2001 & 2003).

Conference Chair of 11th International Phytotechnologies Conference, Heraklion, Crete, Greece (2014)

Conference Chair of ISMET 8, International Society of Microbial Electrochemistry and Technology, Chania, Sept 19-23, 2022.

Conference Chair of ISPTS-2024, 18th International Symposium on Persistent and Toxic Substances and Health, Chania, Sept 14-19, 2024.

Member of Scientific Committee of many International Conferences held in Europe, Canada & North Africa.