



Dr. Tolkou Athanasia

Assistant Professor

Department of Chemistry, Democritus University of Thrace
University Campus of Kavala, St. Lucas, Kavala, GR-65404, Greece

Personal Information

Surname	Tolkou
First Name	Athanasia
Father's Name	Konstantinos
Mother's Name	Olympia
Place of Birth	Thessaloniki
Family state	Married
Mobile Phone	+30 6944517146
Email	atolkou@chem.duth.gr
 SC	https://www.scopus.com/authid/detail.uri?authorId=56149187400
 LinkedIn	https://gr.linkedin.com/in/tolkou-athanasia-986a7763
 ORCID	https://orcid.org/0000-0002-0871-4564
 ResearchGate	https://www.researchgate.net/profile/Athanasia-Tolkou
 Google Scholar	https://scholar.google.co.uk/citations?user=XivN--cAAAAJ&hl=en
Languages	Greek (native), English (C2), Italian (B2), French (B2)

Education

Bachelor Degree (B.Sc.) in Chemistry, Sector: Industrial Chemistry and Chemical Technology, Department of Chemistry, Aristotle University of Thessaloniki.

Master Degree (M.Sc.), Sector: Chemical Technology, Thesis: "Preparation of novel sorbents by deposition of iron and manganese oxide nanoparticles on activated carbon for the combined removal of arsenic (V), chromium (IV) and azo-dyes", Laboratory of General and Inorganic Chemical Technology, Department of Chemistry, Aristotle University of Thessaloniki. Supervisor: Professor Gallios Georgios

Ph.D. Sector: Chemical and Environmental Technology, Doctorate dissertation title: "Synthesis and characterization of novel pre-polymerized inorganic coagulants and their application in water and wastewater treatment", Laboratory of Chemical Technology and Environmental Technology, Department of Chemistry of Aristotle University of Thessaloniki. Supervisor: Prof. Zouboulis Anastasios.

Postdoctoral Researcher (PostDoc) at the Laboratory of Chemical and Environmental Technology, Department of Chemistry, Aristotle University of Thessaloniki, on Water and Wastewater Management: Removal of inorganic micro-pollutants from natural waters by using innovative hybrid adsorbents. Supervisor: Professor Deliyanni Eleni.

Postdoctoral Researcher (PostDoc) at the Laboratory of Chemical Technology, Department of Chemistry, Democritus University of Thrace, Kavala, on Water and Wastewater Management: Synthesis of innovative adsorbent and coagulant materials and their application in water and wastewater treatment. Supervisor: Professor Georgios Z. Kyzas.

Scientific Work/ Areas of Expertise – Research Interests

Wastewater Treatment, Water Treatment, Chemical Technology, Environmental Chemical Technology, Adsorption, Coagulation-Flocculation, MBRs, Synthesis of Materials, Removal of Heavy Metals, Oxyanions and Dyes, Recovery of Nutrients (Phosphates, Nitrates) from Wastewater, Environmental Remediation, and Environmental Sustainability.

Member of Organizations

- Member of the General Assembly of Association of Greek Chemists
- President of the board of the Scientific Department of the Environment, Health and Safety, Association of Greek Chemists

Research Experience

Participation in Research Programs

October 2023-December 2024: Participation in the project “Advanced Materials for Sustainable Development: Production and Storage of Green Energy, Energy Saving, and Pollution Control Applications” (TAEDR-0535821), which is implemented under the action “Flagship actions in interdisciplinary scientific fields with a special focus on the productive fabric” (ID 16618), Greece 2.0–National Recovery and Resilience Fund and funded by European Union NextGenerationEU.

August - December 2023: Participation in the project "Selection of research directions and accreditation of parameters and methods of the chemical and biological sector of the Control and Research Laboratory of Prefecture of Central Macedonia", founded by the Region of Central Macedonia, where chemical analysis of environmental samples was performed and a report of deliverables was written.

August 2022 - July 2023: Participation in the project "Development of an integration methodology for the treatment of micropollutants in wastewaters and leachates coupling adsorption, advanced oxidation processes and membrane technology» MIS 5069933 (Project Code 30338), act co-financed by the OP" Competitiveness Entrepreneurship and Innovation "and the European Union (European Regional Development Fund). NSRF 2014-2020, Business Program Competitiveness Entrepreneurship Innovation (EPANEK).

March 2021 - July 2022: Participation in the project "Monitoring and methodologies for the removal of emerging pollutants from liquid waste" MIS 5050732 "MOREM" (Project Code 30316) "act co-financed by the OP" Competitiveness Entrepreneurship and Innovation "and the European Union (European Regional Development Fund). NSRF 2014-2020, Business Program Competitiveness Entrepreneurship Innovation (EPANEK), Bilateral and Multilateral S&T Cooperation Greece - China.

November - December 2021: Participation in the project "Investigation of the residual concentration of pesticides and insecticides in rice crops in the plain of Thessaloniki and the possible toxicity of the edible product due to the presence of small concentrations of toxic metals and minerals.", founded by the Region of Central Macedonia, where chemical analysis of environmental samples was performed and a report of deliverables was written.

January – May 2021: Participation in the project "Selection of research directions and accreditation of parameters and methods of the chemical and biological sector of the Control and Research Laboratory of Prefecture of Central Macedonia", founded by the Region of Central Macedonia, where chemical analysis of environmental samples was performed and a report of deliverables was written.

October 2016 – April 2019: Participation in the Project: Investigation of Pollution Level of Irrigation Networks and Trench of the Thessaloniki Plain and Impact Assessment in the Marine Environment and Monocultures, founded by the Region of Central Macedonia.

April 2018: In the framework of the Greek-German cooperation program MOEL-SOEL, funded by the German Ministry of Research and Technology (BMBF), entitled "Safe and reliable water supply systems in suburban, decentralized and rural areas: Integration of local material needs, innovative and production

methods to ensure safe water supply - SafeWatPRO ", Cooperation with Technical University Hamburg and Technical University Poznan, research visit to the University of Hamburg TUHH, April 2018.

March 2016 – December 2017: IKYDA 2016, Participation in the Programme for the promotion of the Exchange and Scientific Cooperation between Greece and Germany, (Project ACR-Tech) for Groundwater treatment for removal of arsenic and chromium(VI) using innovative adsorbing and filtration technologies

May 2013 – June 2015: Participation in a joint project (PAVET -project PhoReSe) for the recovery of Phosphorus from secondary effluents of municipal wastewater treatment plants.

May 2013 – June 2015: Participation in a joint project (SYNERGASIA II-project FOULMEM) for the preparation of specific chemicals in the form of composite nano-coagulants that can be used for fouling control in Membrane Bioreactors.

Research Experience Abroad

August 2020 - October 2020, January 2017 and July 2018: Department of Theoretical and Applied Sciences, University of Insubria, Varese, Italy, by Prof. V. Torretta: "Training in energy recovery from waste through anaerobic digestion, in solid waste management efficiency and also in the treatment of landfill leachates".

July 2016 and 2017: Technical University of Hamburg, Laboratory of Water Resources and Water Supply, Germany by Prof. Mathias Ernst: "Determination of Zeta potential and Particle Size of coagulants with the ZETASIZER Nano -ZS by Malvern, and also determination of Particle size distribution by volume of applied coagulants; volume histogram and cumulative undersize graph of formed flocs during coagulation experiments with The EyeTech Particle Size and Shape Analyser by Ankersmid".

Fellowships/Prizes/Awards

Scholarship from the Onassis Public Benefit Foundation to participate in a summer school (Lectures in Physics and Chemistry) at the Foundation of Research and Technology (FORTH), Crete, for Nanoscience and Nanotechnology, emphasizing on Graphene and other 2D materials, in which the winner of the Nobel Prize in Chemistry for the discovery of graphene, Konstantin Novoselov, taught.

Publications in International Scientific Journals (62 papers)

1. Kouzoutzoglou-Efremidou A., **Tolkou* A.K.**, Maroulas K.N., Kosheleva R.I., Katsoyiannis I.A., Kyzas* G.Z. Interfacial adsorption interactions of dyes and chitosan/activated carbon@curcumin derivatives in single-component and binary solutions", *Langmuir* 2025, xx 120-131 (doi: 10.1021/la402778x).
2. Malouchi, N.; Tolkou, A.K.*; Kyzas, G.Z.*; Katsoyiannis, I.A. Ibuprofen Removal by Aluminum-Modified Activated Carbon (AC@Al) Derived from Coconut Shells. *Appl. Sci.* 2024, 14, 9929. <https://doi.org/10.3390/app14219929>.
3. Karaeva* A., Ivascu, L., **Tolkou A.K.**, Torretta V. Rada E.C., THE ROLE OF THE PUBLIC IN THE IMPLEMENTATION OF NATIONAL ENERGY POLICY OBJECTIVES. *WIT Transactions on Ecology and the Environment* 2024, 262, 969 - 979. <https://doi:10.2495/SDP240801>.
4. Malouchi, N.; Tolkou, A.K.*; Maroulas, K.N.; Katsoyiannis, I.A.; Kyzas, G.Z.* Removal of Ibuprofen from Aqueous Solutions by Using Graphene Oxide@MgO. *J. Compos. Sci.* 2024, 8, 434. <https://doi.org/10.3390/jcs8100434>.
5. Tolkou, A.K.; Posantzis, A.; Maroulas, K.N.; Kosheleva, R.I.; Koumentakou, I.; Kostoglou, M.; Kyzas, G.Z.* Fluoride Removal from Aqueous Solutions by Using Super-Adsorbents of Chitosan/Orange Peels/Activated Carbon@MgO: Synthesis, Characterization, and Adsorption Evaluation. *Processes* 2024, 12, 2043. <https://doi.org/10.3390/pr12092043>.
6. Baltrocchi, A.P.D.; Carnevale Miino, M.; Katsoyiannis, I.A.; Tolkou, A.K.; Maggi, L.; Rada, E.C.; Torretta, V. Assessment of environmental sustainability of drinking water treatments for arsenic removal. *Resour. Conserv. Recycl.* 2024, 211, 107878. <https://doi.org/10.1016/J.RESCONREC.2024.107878>.

7. Kouvalakidou, S. L.; Lazaridou, M.; Tolkou, A. K.; Bikiaris, N. D.; Liakos, E.; Kostoglou, M.; Kyzas, G. Z. Amphoteric Chitosan Derivatives for the Removal of Basic and Reactive Dyes from Aqueous Solutions. *J. Mol. Liq.* 2024, 411, 125779.
8. Tsoutsas, E.K.; Tolkou, A.K.*; Kyzas, G.Z.; Katsoyiannis, I.A. New Trends in Composite Coagulants for Water and Wastewater Treatment. *Macromol* 2024, 4, 509-532. <https://doi.org/10.3390/macromol4030030>.
9. Malouchi, N., Chatzimichailidou, S., Tolkou, A.K., Kyzas, G.Z., Calgaro, L., Marcomini, A., Katsoyiannis*, I.A. The Removal of Per- and Poly-Fluoroalkyl Substances from Water: A Review on Destructive and Non-Destructive Methods. *Separations* 2024, 11, 122. <https://doi.org/10.3390/separations11040122>.
10. Tolkou*, A. K.; Maroulas, K. N.; Theologis, D.; Katsoyiannis, I. A. Comparison of Modified Peels : Natural Peels or Peels-Based Activated Carbons for the Removal of Several Pollutants Found in Wastewaters. *C* 2024, 10, 22. <https://doi.org/10.3390/c10010022>.
11. Dago-serry, Y., Maroulas, K. N., Tolkou, A. K., Kokkinos, N. K., Kyzas, G. Z. How the Chitosan Structure Can Affect the Adsorption of Pharmaceuticals from Wastewaters: An Overview. *Carbohydr. Polym. Technol. Appl.* 2024, 7, 100466. <https://doi.org/10.1016/j.carpta.2024.100466>.
12. Tsoutsas, E. K., Tolkou, A. K., Kyzas, G. Z., Katsoyiannis, I. A. An Update on Agricultural Wastes Used as Natural Adsorbents or Coagulants in Single or Combined Systems for the Removal of Dyes from Wastewater. *Water, Air, Soil Pollut.* 2024. <https://doi.org/10.1007/s11270-024-06979-9>.
13. Tolkou* A. K., Tsoutsas E. K., Katsoyiannis I. A., Kyzas* G. Z. Colloids and Surfaces A : Physicochemical and Engineering Aspects Simultaneous Removal of Anionic and Cationic Dyes on Quaternary Mixtures by Adsorption onto Banana , Orange and Pomegranate Peels. *Colloids Surfaces A Physicochem. Eng. Asp.* 2024, 685, 133176. <https://doi.org/10.1016/j.colsurfa.2024.133176>.
14. Tolkou, A. K., Tsoutsas E. K., Kyzas G. Z., Katsoyiannis* I. A. Sustainable Use of Low - Cost Adsorbents Prepared from Waste Fruit Peels for the Removal of Selected Reactive and Basic Dyes Found in Wastewaters. *Environ. Sci. Pollut. Res.* 2024, No. 0123456789. <https://doi.org/10.1007/s11356-024-31868-3>.
15. Karaeva* A., Ivascu, L., Tolkou, A.K., Kyzas, G.Z., Giurea R. Reducing the Negative Impact on Atmospheric Air : An Overview of Economic and Administrative and Legal Tools. *MATEC Web of Conferences* 2024, 389, 00066, 1–10. <https://doi.org/10.1051/mateconf/202438900066>.
16. Gkika D.A., Tolkou A.K., Lambropoulou D.A., Bikiaris B.N., Kokkinos P., Kalavrouziotis I.K., Kyzas* G.Z. Application of Molecularly Imprinted Polymers (MIPs) as environmental separation tools. *RSC Applied Polymers* 2024, DOI: 10.1039/D3LP00203A.
17. Dago-Serry Y., Maroulas K.N., Tolkou, A.K., AbdelAll N., Alodhayb A.N., Khouqeer G.A., Kyzas* G.Z. Composite Super-Adsorbents of Chitosan/Activated Carbon for the Removal of Nonsteroidal Anti-Inflammatory Drug from Wastewaters. *Journal of Molecular Structure*, 2024, 1298 (P2), 137044. <https://doi.org/10.1016/j.molstruc.2023.137044>.
18. Chalaris* M., Gkika D.A., Tolkou A.K., Kyzas G.Z. Advancements and sustainable strategies for the treatment and management of wastewaters from metallurgical industries: An Overview. *Environmental Science and Pollution Research* 2023, No. 0123456789. <https://doi.org/10.1007/s11356-023-30891-0>.
19. Tolkou* A.K., Toubanaki D.K., Kyzas G.Z. Detection of Arsenic, Chromium, Cadmium, Lead, and Mercury in Fish: Effects on the Sustainable and Healthy Development of Aquatic Life and Human Consumers. *Sustainability*. 2023, 15(23), 16242. <https://doi.org/10.3390/su152316242>.
20. Tolkou* A.K., Kyzas G.Z. Magnesium/Silica/Lanthanum@Activated Carbon for the Remediation of As(III) from Water. *Environments* 2023, 10(10), 171. <https://doi.org/10.3390/environments10100171>.
21. Tsoutsas E.K., Tolkou* A.K., Katsoyiannis I.A., Kyzas G.Z. Composite Activated Carbon Modified with AlCl₃ for the Effective Removal of Reactive Black 5 Dye from Wastewaters. *Journal of Composites Science* 2023, 7(6), 224. <https://doi.org/10.3390/jcs7060224>.
22. Tolkou A.K., Zouboulis* A.I. Fluoride Removal from Water Sources by Adsorption on MOFs. *Separations* 2023, 10(9), 467. <https://doi.org/10.3390/separations10090467>.
23. Tolkou A.K., Mitropoulos A.C., Kyzas* G.Z. Removal of anthraquinone dye from wastewaters by hybrid modified activated carbons. *Environmental Science and Pollution Research* 2023, 30, 73688–73701 <https://doi.org/10.1007/s11356-023-27550-9>.

24. Gkika* D.A., Tolkou A.K., Evgenidou E., Bikiaris D.N., Lambropoulou, D.A., Mitropoulos A.C., Kalavrouziotis I.K., Kyzas* G.Z. Fate and Removal of Microplastics from Industrial Wastewaters. *Sustainability* 2023, 15(8), 6969. <https://doi.org/10.3390/su15086969>.
25. Chatzimichailidou S., Xanthopoulou M., Tolkou A.K., Katsoyiannis* I.A. Biochar Derived from Rice by-Products for Arsenic and Chromium Removal by Adsorption: A Review. *Journal of Composites Science* 2023, 7(2), 59. <https://doi.org/10.3390/jcs7020059>.
26. Karaeva A., Ionescu G., Cioca L.I., Tolkou* A., Katsoyiannis I., Kyzas G. Environmental sustainability for traditional energy small and medium enterprises. *Environmental Science and Pollution Research* 2023, 47822–47831, <https://doi.org/10.1007/s11356-023-25718-x>.
27. Tolkou* A.K., Trikkaliotis D.G., Kyzas G.Z., Katsoyiannis I.A., Deliyanni E.A. Simultaneous Removal of As(III) and Fluoride Ions from Water Using Manganese Oxide Supported on Graphene Nanostructures (GO-MnO₂). *Sustainability* 2023, 15(2), 1179. <https://doi.org/10.3390/su15021179>.
28. Tolkou* A.K., Rada E.C., Torretta V., Xanthopoulou M., Kyzas G.Z., Katsoyiannis I.A. Removal of Arsenic(III) from Water with a Combination of Graphene Oxide (GO) and Granular Ferric Hydroxide (GFH) at the Optimum Molecular Ratio. *C* 2023, 9(1), 10. <https://doi.org/10.3390/c9010010>.
29. Tolkou* A.K., Trikalioti S., Makrogianni O., Trikkaliotis D.G., Deliyanni E.A., Kyzas G.Z., Katsoyiannis I.A. Magnesium modified activated carbons derived from coconut shells for the removal of fluoride from water. *Sustainable Chemistry and Pharmacy* 2023, 31, 100898. <https://doi.org/10.1016/j.scp.2022.100898>.
30. Karaeva* A., Tolkou A., Cioca L.I., Lakatos E.S. Family ISO 14000 Standards as a Tool of Achieving Environmental Sustainability of Enterprises. *IOP Conference Series: Earth and Environmental Science* 2023, 1126. <https://doi.org/10.1088/1755-1315/1126/1/012036>.
31. Kyzas* G.Z., Tolkou A.K., Al Musawi T.J., Mengelizadeh N., Mohebi S. Fluoride Removal from Water by Using Green Magnetic Activated Carbon Derived from Canola Stalks. *Water, Air, & Soil Pollution* 2022, 233(10), 424. <https://doi.org/10.1007/s11270-022-05900-6>.
32. Karaeva* A., Ionescu G., Cioca L.I., Tolkou A. Role of EU and non-EU universities in achieving environmental sustainability. *MATEC Web of Conferences* 2022, 00073, 1–9. <https://doi.org/10.1051/mateconf/202237300073>.
33. Trikkaliotis D.G., Ainali N.M., Tolkou A.K., Mitropoulos A.C., Lambropoulou D.A., Bikiaris* D.N., Kyzas* G.Z. Removal of Heavy Metal Ions from Wastewaters by Using Chitosan/Poly (Vinyl Alcohol) Adsorbents: A Review. *Macromol* 2022, 6, 2(3), 403-25. <https://doi.org/10.3390/macromol2030026>.
34. Tolkou* A.K., Vaclavikova M., Gallios GP. Impregnated Activated Carbons with Binary Oxides of Iron-Manganese for Efficient Cr (VI) Removal from Water. *Water, Air, & Soil Pollution* 2022, 233(8), 233-343 <https://doi.org/10.1007/s11270-022-05826-z>.
35. Tolkou A.K., Kyzas G.Z., Katsoyiannis* I.A. Arsenic (III) and Arsenic (V) Removal from Water Sources by Molecularly Imprinted Polymers (MIPs): A Mini Review of Recent Developments. *Sustainability* 2022, 14(9), 5222; <https://doi.org/10.3390/su14095222>.
36. Tolkou* A.K., Trikalioti S., Makrogianni O., Xanthopoulou M., Deliyanni E.A., Katsoyiannis I.A., Kyzas* G.Z. Chromium(VI) Removal from Water by Lanthanum Hybrid Modified Activated Carbon Produced from Coconut Shells. *Nanomaterials* 2022, 12(7), 1067. <https://doi.org/10.3390/nano12071067>.
37. Rada E.C., Tolkou A., Katsoyiannis I., Magaril E., Kiselev A., Conti F., Schiavon M., Torretta* V. EVALUATING GLOBAL MUNICIPAL SOLID WASTE MANAGEMENT EFFICIENCY from A CIRCULAR ECONOMY POINT of VIEW. *WIT Transactions on Ecology and the Environment* 2021, 253, 207-218. <https://doi.org/10.2495/SC210181>.
38. Tolkou* A.K., Meez E., Kyzas G.Z., Torretta V., Collivignarelli M.C., Caccamo F.M., Deliyanni E.A., Katsoyiannis I.A. A Mini Review of Recent Findings in Cellulose-, Polymer- and Graphene-Based Membranes for Fluoride Removal from Drinking Water. *C* 2021, 7(4), 74. <https://doi.org/10.3390/c7040074>.
39. Meez E., Tolkou A.K., Giannakoudakis D.A, Katsoyiannis* I.A, Kyzas G.Z. Activated Carbons for Arsenic Removal from Natural Waters and Wastewaters: A Review. *Water* 2021, 13(21), 2982. <https://doi.org/10.3390/w13212982>.
40. Torretta V., Tolkou* A.K., Katsoyiannis I.A., Caccamo F.M., Miino M.C., Baldi M., Collivignarelli M.C. Enhancement of Methanogenic Activity in Volumetrically Undersized Reactor by Mesophilic Co-Digestion of Sewage Sludge and Aqueous Residue. *Sustainability* 2021, 13(14), 7728. <https://doi.org/10.3390/su13147728>.

41. Tolkou A.K., Manousi N., Zachariadis G.A., Katsoyiannis* I.A., Deliyanni* E.A. Recently Developed Adsorbing Materials for Fluoride Removal from Water and Fluoride Analytical Determination Techniques: A Review. *Sustainability* 2021, 13(3), 7061. <https://doi.org/10.3390/su13137061>.
42. Rahdar S., Rahdar* A., Sattari M., Hafshejani L.D., Tolkou A.K., Kyzas* G.Z. Barium/Cobalt@Polyethylene Glycol Nanocomposites for Dye Removal from Aqueous Solutions. *Polymers* 2021, 13(7), 1161. <https://doi.org/10.3390/polym13071161>.
43. Metaxa* Z.S., Tolkou, A.K., Efstathiou S., Rahdar A., Favvas E.P., Mitropoulos A.C., Kyzas* G.Z. Nanomaterials in Cementitious Composites: An Update. *Molecules* 2021, 26(5), 1430. <https://doi.org/10.3390/molecules26051430>.
44. Tolkou* A.K., Zouboulis A.I. Graphene Oxide/Fe-Based Composite Pre-Polymerized Coagulants: Synthesis, Characterization and Potential Application in Water Treatment. *C* 2020, 6(3), 44. <https://doi.org/10.3390/c6030044>.
45. Tolkou A.K., Katsoyiannis I.A., Zouboulis* A.I. Removal of Arsenic, Chromium and Uranium from Water Sources by Novel Nanostructured Materials Including Graphene-Based Modified Adsorbents: A Mini Review of Recent Developments. *Applied Sciences* 2020, 10(9), 3241; <https://doi.org/10.3390/app10093241>.
46. Tolkou A., Zouboulis* A. Application of composite pre-polymerized coagulants for the treatment of high-strength industrial wastewaters. *Water* 2020, 12(5), 1258; <https://doi.org/10.3390/w12051258>.
47. Torretta* V., Tolkou A., Katsoyiannis I., Schiavon M. Second-Hand Smoke Exposure Effects on Human Health: Evaluation of PM10 Concentrations in the External Areas of a University Campus. *Sustainability* 2020, 12(7), 2948; <https://doi.org/10.3390/su12072948>.
48. Tolkou A., Mitrakas M., Katsoyiannis I., Ernst E., Zouboulis* A. Fluoride removal from water by composite Al/Fe/Si/Mg pre-polymerized coagulants: Characterization and application. *Chemosphere*, 2019, 231, 528-537. <https://doi.org/10.1016/j.chemosphere.2019.05.183>.
49. Torretta V., Tolkou A., Katsoyiannis I., Katsoyiannis A., Trulli E., Magaril E., Rada* E.-C. Consumption of Free Chlorine in an Aqueduct Scheme with Low Protection: Case Study of the New Aqueduct Simbrivio-Castelli (NASC), Italy. *Water* 2018, 10(2), 127. <https://doi.org/10.3390/w10020127>.
50. Gallios* G., Tolkou A.*, Katsoyiannis I., Stefusova K., Vaclavikova M., Deliyanni E. Adsorption of Arsenate by Nano Scaled Activated Carbon Modified by Iron and Manganese Oxides. *Sustainability* 2017, 9(10), 1684. <https://doi.org/10.3390/su9101684>.
51. Katsoyiannis* I., Tzollas N., Tolkou A., Mitrakas M., Ernst M., Zouboulis A. Use of novel composite coagulants for arsenic removal from waters-experimental insight for the application of polyferric sulfate (PFS). *Sustainability* 2017, 9(4), 590. <https://doi.org/10.3390/su9040590>.
52. Torretta* V., Ferronato N., Katsoyiannis I., Tolkou A., Airoldi M. Novel and Conventional Technologies for Landfill Leachates Treatment: A Review. *Sustainability* 2017, 9(1), 9. <https://doi.org/10.3390/su9010009>.
53. Gkotsis P., Mitrakas M., Tolkou A., Zouboulis* A. Batch and continuous dosing of conventional and composite coagulation agents for fouling control in a pilot-scale MBR. *Chemical Engineering Journal* 2017, 311, 255–264. <http://dx.doi.org/10.1016/j.cej.2016.11.099>.
54. Gkotsis P., Peleka E., Zamboulis D., Mitrakas M., Tolko, A., Zouboulis* A. Wastewater Treatment in Membrane Bioreactors: The Use of Polyelectrolytes to Control Membrane Fouling. *Environmental Processes* 2017, 4, 9-21. <https://doi.org/10.1007/s40710-016-0168-9>.
55. Gkotsis P.K., Batsari E.L., Peleka E.N., Tolkou A.K., Zouboulis A.I. Fouling control in a lab-scale MBR system: Comparison of several commercially applied coagulants. *Journal of Environmental Management* 2017, 203(2), 838-846. <http://dx.doi.org/10.1016/j.jenvman.2016.03.003>.
56. Raptopoulou C., Kalaitzidou K., Tolkou A., Palasantza P.A., Mitrakas M., Zouboulis* A. Phosphate Removal from Effluent of Secondary Wastewater Treatment: Characterization of Recovered Precipitates and Potential Re-use as Fertilizer. *Waste and Biomass Valorization* 2016, 7(4), 851-860. <https://doi.org/10.1007/s12649-016-9516-2>.
57. Kalaitzidou K., Mitrakas M., Raptopoulou C., Tolkou A., Palasantza P.A., Zouboulis* A. Pilot-Scale Phosphate Recovery from Secondary Wastewater Effluents. *Environmental Processes* 2016, 3, 5-22. <https://doi.org/10.1007/s40710-016-0139-1>.
58. Tolkou A., Zouboulis* A. Effect of climate change in WWTPs with a focus on MBR infrastructure. *Desalination and Water Treatment* 2016, 57 (5), 2344-2354. <https://doi.org/10.1080/19443994.2015.1049403>.

59. Tolkou A., Zouboulis* A. Synthesis and coagulation performance of composite poly-aluminum-ferric-silicate-chloride coagulants in water and wastewater. *Desalination and Water Treatment* 2015, 53(12), 3309-3318. <https://doi.org/10.1080/19443994.2014.933614>.
60. Tolkou A., Zouboulis* A. Synthesis and characterization of a novel composite pre-polymerized coagulant for water and wastewater treatment. *International Journal of Environmental Engineering* 2015, 2(1) 50-54. <https://doi.org/10.15224/978-1-63248-043-9-28>.
61. Tolkou A., Zouboulis* A. Review of Recent Patents on Coagulation/Flocculation (C/F) Process: Methods and Applications with Emphasis on Phosphates Removal. *Recent Patents on Materials Science* 2014, 7 (2) 151-163. <http://dx.doi.org/10.2174/1874464807666140714165608>.
62. Tolkou A., Zouboulis* A., Samaras P. The Incorporation of Ceramic Membranes in MBR Systems for Wastewater Treatment: Advantages and Patented New Developments. *Recent Patents on Engineering* 2014, 8 (1) 24-32. <http://dx.doi.org/10.2174/1872212107666131126234626>.

Editorial of Special Issues

1. Tolkou A.K.*, Kyzas G.Z.* Advanced Technologies of Water and Wastewater Treatment. *Environments* 2024, 11, 270. <https://doi.org/10.3390/environments11120270>.

Publications in International Conferences (71 proceedings)

1. Theologis D., Tolkou A.K., Maroulas K.N., Kyzas G.Z., Katsoyiannis I.A. "Humic acid removal from aqueous solutions by using chitosan/curcumin/activated carbon derivatives", 23rd Panhellenic Chemistry Conference, Athens, Greece, 25-28 September 2024.
2. Malouchi N., Tolkou A.K., Maroulas K.N., Katsoyiannis I.A., Kyzas G.Z., "Chitosan/curcumin/activated carbon adsorbents for the removal of ibuprofen from wastewater", 23rd Panhellenic Chemistry Conference, Athens, Greece, 25-28 September 2024.
3. Tolkou A.K., Theologis D., Maroulas K.N., Efthymiopoulos P., Katsoyiannis I.A., Kyzas G.Z., "Thermodynamic evaluation of the humic acid removal from aqueous solutions by using chitosan/activated carbon derivatives", 28th Thermodynamics Conference, Delft, Netherlands, 04-06 September 2024.
4. Maroulas K.N., Tolkou A.K., Efthymiopoulos P., Kyzas G.Z., "How the enthalpy, free Gibbs energy and entropy affect the treatment of wastewaters: The case of the removal of Cr(VI) by chitosan/curcumin/activated carbon adsorbent", 28th Thermodynamics Conference, Delft, Netherlands, 04-06 September 2024.
5. Tolkou A.K., Malouchi N., Kosheleva R.I., Efthymiopoulos P., Ladomenou K., Chalaris M., Mitropoulos A.C., Katsoyiannis I.A., Kyzas G.Z., "Removal of Ibuprofen from wastewaters by aluminum modified hybrid porous activated carbon derived from coconut shells", 14th International Conference on Environmental Pollution and Remediation, Barcelona, Spain, 25-27 August 2024
6. Maroulas K.N., Christodoulopoulos I., Tolkou A.K., Meretoudi A.D., Kouvalakidou S.L., Kosheleva R.I., Georgiou I., Efthymiopoulos P., Kyzas G.Z., "Diethylenetriamine/magnetic-graphene oxide and chitosan/magnetic-graphene oxide derivatives for the removal of fluoride ions from wastewaters", 26th International Conference on Materials, Methods & Technologies, Burgas, Bulgaria, 15-18 August 2024.
7. Tolkou A.K., Maroulas K.N., Meretoudi A.D., Kouvalakidou S.L., Kosheleva R.I., Efthymiopoulos P., Kyzas G.Z., "Novel chitosan/graphene oxide composites for the adsorption of hexavalent chromium and fluoride ions from wastewaters", 5th International Conference on Recycling and Reuse (R&R2024): Low Carbon Economy and Sustainable Development, Istanbul, Turkey, 05-06 July 2024.
8. Maroulas K.N., Tolkou A.K., Meretoudi A.D., Kouvalakidou S.L., Kosheleva R.I., Georgiou I., Papageorgiou F., Varoutoglou A., Efthymiopoulos P., Kyzas G.Z., "Reduced graphene oxide/chitosan/starch/curcumin doped with ZnO for the removal of fluoride ions from wastewaters", 14th edition of the Graphene and 2D Materials International Conference & Exhibition (Graphene2024), Madrid, Spain, 25-28 June 2024.
9. Meretoudi A.D., Maroulas K.N., Kouvalakidou S.L., Kosheleva R.I., Georgiou I., Gkika D.A., Varoutoglou A., Moschou I., Tolkou A.K., Efthymiopoulos P., Kyzas G.Z., "Chitosan/graphene oxide/vanillin@TiO₂ for the removal of nonsteroidal anti-inflammatory pharmaceutical compound (Diclofenac) from wastewaters", 11th International Conference on Sustainable Solid Waste Management, Rhodes, Greece, 19-22 June 2024.

10. Meretoudi A.D., Kalamvogias I., Maroulas K.N., Kouvalakidou S.L., Kosheleva R.I., Georgiou I., Gkika D.A., Varoutoglou A., Moschou I., Tolkou A.K., Efthymiopoulos P., Kyzas G.Z., “Chitosan/graphene oxide@montmorillonite composites for the adsorption of dyes from wastewaters”, 11th International Conference on Sustainable Solid Waste Management, Rhodes, Greece, 19-22 June 2024.
11. Maroulas K.N., Tolkou A.K., Meretoudi A.D., Kouvalakidou S.L., Kosheleva R.I., Georgiou I., Gkika D.A., Varoutoglou A., Moschou I., Efthymiopoulos P., Kyzas G.Z., “Curcumin@MgO/graphene oxide nanoadsorbents for the removal of fluoride from wastewaters”, 11th International Conference on Sustainable Solid Waste Management, Rhodes, Greece, 19-22 June 2024.
12. Maroulas K.N., Christodoulou I., Meretoudi A. D., Kouvalakidou S.L., Kosheleva R.I., Georgiou I., Gkika D.A., Varoutoglou A., Moschou I., Tolkou A.K., Efthymiopoulos P., Kyzas G.Z., “Putrescine/graphene oxide and chitosan/graphene oxide derivatives for the removal of paracetamol and ketoprofen from wastewaters”, 11th International Conference on Sustainable Solid Waste Management, Rhodes, Greece, 19-22 June 2024.
13. Kouvalakidou S.L., Tassopoulou M., Meretoudi A.D., Maroulas K.N., Kosheleva R.I., Georgiou I., Gkika D.A., Varoutoglou A., Moschou I., Tolkou A.K., Efthymiopoulos P., Kyzas G.Z., “Modified graphene oxide/chitosan composites for the adsorption of Methylene blue and Reactive black 5 from dyeing mixtures”, 11th International Conference on Sustainable Solid Waste Management, Rhodes, Greece, 19-22 June 2024.
14. Kouvalakidou S.L., Marlagkoutsos S., Maroulas K.N., A Meretoudi A.D., Kosheleva R.I., Georgiou I., Gkika D.A., Varoutoglou A., Moschou I., Tolkou A.K., Efthymiopoulos P., Kyzas G.Z., “Novel magnetic chitosan/graphene oxide/activated carbon composite beads for the removal of nonsteroidal anti-inflammatory pharmaceutical compound (Diclofenac) from aqueous solutions”, 11th International Conference on Sustainable Solid Waste Management, Rhodes, Greece, 19-22 June 2024.
15. Maroulas K.N., Tolkou A.K., Efthymiopoulos P., Konstantinou I., Ntougias S., Katsoyiannis I.A., Kyzas G.Z., Graphene oxide derivatives doped with chitosan/activated carbon for the removal of heavy metals from wastewaters”, 11th International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE 2024), Lefkada, Greece, 16-19 June 2024.
16. Meretoudi A.D., Maroulas K.N., Tolkou A.K., Kouvalakidou S.L., Koumentakou I., Kosheleva R.I., Efthymiopoulos P., Kyzas G.Z., “Chitosan/graphene oxide@k-carragenan composites for the adsorption of hexavalent chromium, trivalent arsenic and fluoride from wastewaters”, International conference Polymers 2024—Polymers for a Safe and Sustainable Future, Athens, Greece, 28-31 May 2024.
17. Maroulas K.N., Meretoudi A.D., Tolkou A.K., Kouvalakidou S.L., Koumentakou I., Kosheleva R.I., Georgiou I., Papageorgiou F., Varoutoglou A., Efthymiopoulos P., Kyzas G.Z., “Chitosan/graphene oxide@SiO₂ nanoadsorbents for the removal of Cr(VI) from wastewaters”, 17th International Scientific Conference of Environmental and Climate Technologies (CONNECT 2024), Riga, Latvia, 15-17 May 2024.
18. Maroulas K.N., Tolkou A.K., Efthymiopoulos P., Ladomenou K., Metaxa Z.S., Chalaris M., Mitropoulos A.C., Ntougias S., Katsoyiannis I.A., Kyzas G.Z., “Chitosan/curcumin/activated carbon nanoadsorbents for the removal of hexavalent chromium from wastewaters”, intelWATT Workshop on European leadership in action: Enabling technologies to boost freshwater preservation, Birmingham, United Kingdom, 22-23 February 2024.
19. Baltrocchi A.P.D., Maggi L., Tolkou A.K., Karaeva A., Kyzas G.Z., “Arsenic(III) removal from water by the synergistic action of graphene oxide (GO) and granular ferric hydroxide (GFH)”, 1st International Conference on Circularity, Sustainability and Resilience in Water, Wastewater and Sludge Management, Varese, Italy, 11-13 February 2024.
20. Tolkou A.K., Tsoutsas E.K., Katsoyiannis I.A., Kyzas G.Z., “Removal of dyes from wastewaters by adsorption on natural adsorbents: Banana, orange and pomegranate peels”, 1st International Conference on Circularity, Sustainability and Resilience in Water, Wastewater and Sludge Management, Varese, Italy, 11-13 February 2024.
21. Karaeva A., Ivascu L., Tolkou A.K., Kyzas G.Z. and Giurea R., “Reducing the Negative Impact on Atmospheric Air: An Overview of Economic and Administrative and Legal Tools”, Proceedings of the 11th International Symposium on Occupational Health and Safety - SESAM 2023, 18 October, 2023, Bucharest, Romania.
22. Tolkou A.K., Georgiou I., Trikkaliotis D.G., Grilla E., Tsoutsas E.K., Kosheleva R.I., Katsoyiannis I.A., Mitropoulos A.C., G.Z. Kyzas, “Sustainable Use of Fruit Peels for Simultaneous Dyes Removal from Wastewaters”, Proceedings of the 8th e-learning, distance education International Summer School on “Wastewater and Biosolids Management” (WWSS23), 24 – 28 July, 2023, Patras, Greece.

23. Kosheleva R.I., Trikkaliotis D.G., Tolkou A.K., Lambropoulou D.A., Mitropoulos A.C., G.Z. Kyzas, "How to Defoul Modified Membranes by Using Nanobubbles", Proceedings of the 8th e-learning, distance education International Summer School on "Wastewater and Biosolids Management" (WWSS23), 24 – 28 July, 2023, Patras, Greece.
24. Kosheleva R.I., Trikkaliotis D.G., Tolkou A.K., Lambropoulou D.A., Mitropoulos A.C., G.Z. Kyzas, "Prevention of Membrane Fouling by Using Bulk Nanobubbles: Leachates Simulations", Proceedings of the 8th e-learning, distance education International Summer School on "Wastewater and Biosolids Management" (WWSS23), 24 – 28 July, 2023, Patras, Greece.
25. Tolkou A.K., Trikkaliotis D.G., Mitropoulos A.C., and Kyzas G.Z., "Combination of Graphene Oxide (GO) and Granular Ferric Hydroxide (GFH) at the Optimum Dosing Ratio for Arsenic(III) Removal", Proceedings of the 1st Mediterranean Conference on Porous Materials, MEDPore23, 17 - 19 May, 2023, Rethymno, Greece.
26. Tolkou A., Tsoutsas E., Trikkaliotis D., Katsoyiannis I. and Kyzas G., "Dye removal from wastewater using orange, banana and pomegranate peels as natural adsorbents", Proceedings of the 18th EuChemS International Conference on Chemistry and the Environment, ICCE 2023, 11 - 15 June, 2023, Venice, Italy.
27. Tolkou A.K., Tsoutsas E.K., Katsoyiannis I.A. and Kyzas G.Z., "Removal of f Reactive Black 5 dye by modified with aluminium activated carbon", Proceedings of the 10th International Conference on Sustainable Solid Waste Management. 21 - 24 June, 2023, Chania, Greece.
28. Tolkou A.K. and Kyzas G.Z., "Removal of Anthraquinone Dye by Hybrid modified activated carbons", Proceedings of the 16th International conference on materials chemistry (MC16), 3 - 6 July, 2023, Dublin, Ireland.
29. Karaeva A., Tolkou A., Cioca L.-I., Lakatos E.-S. "Family ISO 14000 standards as a tool of achieving environmental sustainability of enterprises", Proceedings of the International Scientific Conference on Environmental Sustainability in Natural Resources Management (ISCES 2022), 1 November, 2022, Riga, Latvia.
30. Karaeva A., Ionescu G., Cioca L.-I., Tolkou A., "Role of EU and non-EU universities in achieving environmental sustainability", Proceedings of the 10th Edition of the International Symposium "UNIVERSITARIA SIMPRO 2022", scientific event, 27 – 29 October, 2022, Petrosani, Romania.
31. Tolkou A., Trikalioti S., Makrogianni O., Xanthopoulou M., Georgiou I., Deliyanni E., Kyzas G., Katsoyiannis I. "Lanthanum modified activated carbon for Chromium(VI) removal from water", Proceedings of the 28th Annual Meeting of the Slovenian Chemical Society, 21-23 September, 2022, Portorož-Portorose, Slovenia.
32. Tolkou A.K., Georgiou I., Xanthopoulou M., Lambropoulou D.A., Katsoyiannis I.A., and Kyzas G.Z., "Hybrid modified activated carbons for the removal of emerging pollutants, such as As (III) from water", Proceedings of the 11th European Conference on Pesticides and Related Organic Micropollutants in the Environment & the 17th Symposium on Chemistry and Fate of Modern Pesticides (PESTICIDES2022), 23 – 26 June, 2022, Ioannina, Greece.
33. Makrogianni O., Trikalioti S., Lazaridis I., Tolkou A.K., Katsoyiannis I.A., Kyzas G.Z., "Magnesium oxide modified activated carbon derived from coconut shells for fluoride adsorption", Proceedings of the 9th International Conference on Sustainable Solid Waste Management, CORFU2022, 15-18 June, 2022, Corfu, Greece.
34. Tolkou A., Mitrakas M., Katsoyiannis I., Ernst E., Zouboulis A., "Application of composite pre-polymerized coagulants in fluoride removal from waters", Proceedings of the 17th International Conference on Chemistry and the Environment, ICCE 2019, 16-20 June, 2019, Thessaloniki, Greece.
35. Tolkou A., Deliyanni E., Katsoyiannis I., Gallios G., "Adsorption of arsenic (V) by nano scaled activated carbon modified by iron and manganese oxides: Material characterization and arsenic adsorption isotherms", Proceedings of the 17th International Conference on Chemistry and the Environment, ICCE 2019, 16-20 June, 2019, Thessaloniki, Greece.
36. Tolkou A., Zouboulis A., Raptopoulou C., Kalaitzidou K., Mitrakas M., Palasantza P.A., Noula A., Christodoulou A., "Phosphorus recovery in wastewater treatment: moving from Lab to Pilot", Proceedings of the 5th International Conference on Environmental Pollution and Remediation (ICEPR), 15-17 July, 2015, Barcelona, Spain.
37. Raptopoulou C., Kalaitzidou K., Tolkou A., Mitrakas M., Palasantza P.A., Zouboulis A., "Phosphate removal from secondary effluent of wastewater treatment: characterization and potential re-use as fertilizer of recovered precipitates", Proceedings of the 3rd International Conference on Sustainable Solid Waste Management, 2-4 July, 2015, Tinos Island, Greece.

38. Tolkou A., Kalaitzidou K., Raptopoulou C., Mitrakas M., Zouboulis A., Palasantza P.A., "Removal and/or Recovery of Phosphates by Precipitation as Ferric Phosphate from the Effluent of a Municipal Wastewater Treatment Plant", Proceedings of the International Conference, MATERIALS 2015, 21-23 June, 2015, Porto, Portugal.
39. Kalaitzidou K., Mitrakas M., Raptopoulou C., Tolkou A., Zouboulis A., "Phosphate Removal from Wastewater Effluent by Adsorption onto FeOOH and Recovery as Magnesium Salt", Proceedings of the International Conference, MATERIALS 2015, 21-23 June, 2015, Porto, Portugal.
40. Raptopoulou C., Mitrakas M., Palasantza P.A., Karamouzi S., Tolkou A., Zouboulis A., "Variation of Phosphorus Concentration And Removal Efficiency From A Wastewater Treatment Plant", Proceedings of the 2nd International Scientific Conference, WASTEnet, 19-21 June, 2015, Kavala, Greece.
41. Kalaitzidou K., Mitrakas M., Raptopoulou C., Tolkou A., Palasantza P.A., Zouboulis A., "Phosphate Recovery by Adsorption - Desorption onto Iron Oxy- Hydroxides", Proceedings of the 2nd International Scientific Conference, WASTEnet, 19-21 June, 2015, Kavala, Greece.
42. Gkotsis P., Zouboulis A., Mitrakas M., Peleka E., Tolkou A., Zamboulis D., "Wastewater treatment in MBRs: the application of coagulants for membrane fouling control", Proceedings of the IWA Water & Industry 2015, 7-10 June, 2015, Västerås, Sweden.
43. Kalaitzidou K., Varvoutis G., Mitrakas M., Raptopoulou C., Tolkou A., Zouboulis A., Palasantza P.A.: "Phosphate Recovery by Adsorption onto Hydroxy Iron Oxides from the effluent of Wastewater Treatment", Proceedings of the 10th Hellenic Scientific Conference of Chemical Engineering, 4-6 June, 2015, Patra, Greece.
44. Batsari E., Tolkou A., Zouboulis A., Gkotsis P., Peleka E., "Fouling control in MBR systems: comparison of several commercial applied coagulants", Proceedings of the International Conference of Industrial Waste & Wastewater Treatment & Valorization (IWWATV), 21-23 May, 2015, Athens, Greece.
45. Palasantza P.A., Germanidis G., Tolkou A., Mitrakas M., Kalaitzidou K., Raptopoulou C., Tsimpoukas N., Noula K., Zouboulis A., "Phosphorus Recovery from Effluent of WWTP in Greece: Design, Built and Operation of a Pilot Plant", Proceedings of the IWA Nutrient Removal and Recovery 2015: moving innovation into practice (NRR), 18-21 May, 2015, Gdansk, Poland.
46. Tolkou A., Tzollas N., Datseri M., Katsoyiannis I., Zouboulis A., "Efficiency of novel composite coagulants of iron and aluminum for As(III) and As(V) removal from groundwaters", Proceedings of the IWA Balkan Young Water Professionals Conference, 10-12 May, 2015, Thessaloniki, Greece.
47. Gkotsis P., Peleka E., Zamboulis D., Mitrakas M., Tolkou A., Zouboulis A., "Filterability tests and SMP concentration measurements for membrane fouling pre-assessment in a pilot-scale MBR", Proceedings of the IWA Balkan Young Water Professionals Conference, 10-12 May, 2015, Thessaloniki, Greece.
48. Raptopoulou C., Tolkou A., Mitrakas M., Palasantza P.A., Zouboulis A., "Phosphates Removal from Various Side-Streams of a Wastewater Treatment Plant", Proceedings of the IWA Balkan Young Water Professionals Conference, 10-12 May, 2015, Thessaloniki, Greece.
49. Kalaitzidou K., Mitrakas M., Tolkou A., Palasantza P.A., Zouboulis A., "Phosphorus Removal from Aqueous Solutions by Chemical Precipitation", Proceedings of the IWA Balkan Young Water Professionals Conference, 10-12 May, 2015, Thessaloniki, Greece.
50. Gkotsis P., Batsari E., Zouboulis A., Peleka E., Tolkou A., Zamboulis D., Mitrakas M., "An innovative hybrid MBR-coagulation system to control membrane fouling", Proceedings of the 12th Greece-Cyprus Conference of Chemistry, 8-10 May, 2015, Thessaloniki, Greece.
51. Raptopoulou C., Tolkou A., Mitrakas M., Kalaitzidou K., Palasantza P.A., Zouboulis A.: "Bioavailability Study of Phosphate Precipitates, Recovered from The Treatment of Municipal Wastewater as Fertilizers", Proceedings of the 12th Greece-Cyprus Conference of Chemistry, 8-10 May, 2015, Thessaloniki, Greece.
52. Tolkou A., Zouboulis A., "Synthesis and characterization of a novel composite pre-polymerized coagulant for water and wastewater treatment", Proceedings of the 2nd International Conference on Advances in Bio-Informatics and Environmental Engineering - ICABEE 2015, 18-19 April, 2015, Rome, Italy.
53. Gkotsis P., Zouboulis A., Mitrakas M., Zamboulis D., Tolkou A., Peleka E., "Development of an integrated methodology for fouling control in membrane bioreactors", Proceedings of the 2nd International Conference on Advances in Bio-Informatics and Environmental Engineering - ICABEE 2015, 18-19 April, 2015, Rome, Italy.
54. Tolkou A., Kalaitzidou K., Mitrakas M., Zouboulis A., Palasantza K., "Chemical Precipitation of Phosphorus in Water and Wastewater Samples: the Role of Water Components", Proceedings of the 2nd European Sustainable Phosphorus Conference (ESPC2), 5-6 March, 2015, Berlin, Germany.

55. Tolkou A., Zouboulis A., “Sustainable Treatment Process for High-Strength Industrial Wastewaters by The Application of Composite Coagulants”, Proceedings of the 4th International Conference, “Ecology of Urban Areas “, 9-10 October, 2014, Zrenjanin, Serbia.
56. Gkotsis P., Peleka E., Zouboulis A., Mitrakas M., Zamboulis D., Tolkou A. “Using coagulants to control membrane fouling in a membrane bioreactor”, Proceedings of the 4th International Workshop “MBR for the next Generation VI”, (eds. Koyuncu I. et al.), 11 – 12 September, 2014, Antalya, Turkey.
57. Tolkou A., Zouboulis A., Zamboulis D., Demirtsidou M., “Combination of anionic polyelectrolyte and novel polyaluminum-ferric-silicate-chloride coagulant in coagulation/flocculation (C/F) process in water and wastewater treatment”, Proceedings of the 12th International Conference Protection and Restoration of the Environment, 29 June – 3 July, 2014, Skiathos Island, Greece.
58. Gkotsis P., Peleka E., Zouboulis A., Mitrakas M., Zamboulis D. and Tolkou A., “Wastewater treatment in Membrane Bioreactors; development of an integrated methodology for fouling control”, Proceedings of the 12th International Conference Protection and Restoration of the Environment, 29 June – 3 July, 2014, Skiathos Island, Greece.
59. Tolkou A., Zouboulis A., Peleka E., “Novel pre-polymerized coagulant agents used for the treatment of industrial wastewaters”, Proceedings of the 1st IWA Specialized International Conference “EcoSTP- Eco Technologies for Wastewater Treatment”, 23 – 25 June, 2014, Verona, Italy.
60. Tolkou A., Zouboulis A., Samaras P., “Development of a sustainable treatment process (MBR) for high-strength industrial wastewaters by the application of composite coagulants”, Proceedings of the International congress in Green Infrastructure and Sustainable Societies/ Cities (GreInSus 2014), 8 – 10 May, 2014, Izmir, Turkey.
61. Tolkou A., Zouboulis A.: “Effect of Climate Change in WWTPs and especially in MBRs Infrastructures used for Wastewater Treatment”, Proceedings of the International Conference ADAPTtoCLIMATE, 27 – 29 March, 2014, Nicosia, Cyprus.
62. Tolkou A., Zouboulis A., Mitrakas M., Papastergiadis E., “Preparation, Characterization and application of a novel composite coagulant (poly-aluminum ferric silicate chloride for wastewater treatment”, Proceedings of the 5th Environmental Conference of Macedonia, 14 – 16 March, 2014, Thessaloniki, Greece.
63. Gkotsis P., Peleka E., Zouboulis A., Mitrakas M., Zamboulis D., Tolkou A.,” Wastewater treatment in Membrane Bioreactors; Development of an integrated methodology for fouling control”, Proceedings of the 5th Environmental Conference of Macedonia, 14 – 16 March, 2014, Thessaloniki, Greece.
64. Tolkou A., Zouboulis A. Gkotsis P., Samaras P., Mitrakas M., “Hybrid alternative processes for fouling control in MBRs”, Proceedings of the 3d International Workshop “MBR for the next Generation III”, (eds. Koyuncu I. et al.), 17 – 18 December, 2013, Istanbul, Turkey.
65. Tolkou A., Zouboulis A., Samaras P., “PSiFAC – poly-aluminum-ferric-silicate-chloride: Synthesis and coagulation performance of a novel composite coagulant in water and wastewater treatment”, Proceedings of the 4th International Conference on “Small and Decentralized Water and Wastewater Treatment Plants”, (eds. Zouboulis A., Kugolos A., Samaras P.), 25 – 27 October, 2013, Volos, Greece
66. Tolkou A., Karamani D., Ntinoudi E., Tzoupanos N., Samaras P, Zouboulis A., “The combination of aluminum and iron in poly–aluminum ferric chloride as a single coagulation reagent”, Proceedings of the International Workshop on “Advances in Coagulation Science and Technology”, 22 – 27 September, 2013, Beijing, China.
67. Gallios G., Tolkou A., Vaclavikova M., “Iron oxide-based nanoparticles deposited on AC host. An efficient sorbent for mixed wastewater treatment”, Proceedings of the 8th International Conference on “Surfaces, Coatings and Nanostructured Materials – NANOSMAT”, 22-25 September, 2013, Granada, Spain.
68. Tolkou A., Zouboulis A., Samaras P., “Synthesis and coagulation performance of composite poly-aluminum-ferric-silicate-chloride coagulants in wastewater treatment and their potentially use to alleviate the membrane fouling in MBRs”, Proceedings of the International Conference “Water Is Necessary for Life – WIN4Life”, (eds. Loizidou M.), 19 – 21 September, 2013, Tinos Island, Greece.
69. Tolkou A., Zouboulis A., Samaras P., Peleka E., “Synthesis and coagulation performance of composite poly-aluminum-ferric-silicate-chloride nanocoagulants in water and wastewater treatment”, Proceedings of the International Exhibition on Nanotechnologies & Organic Electronics, Nanotexnology 2013, 8 – 12 July, 2013, Thessaloniki, Greece.
70. Tolkou A., Zouboulis A., Samaras P., “Energy Optimization Practices for Sustainable Operation of MBR Wastewater Treatment Systems”, Proceedings of the 3rd International Exergy, Life Cycle Assessment, and Sustainability Workshop & Symposium (ELCAS3) 07 – 09 July, 2013, Nisyros Island, Greece.

71. Tolkou A., Zouboulis A., "Energy and Wastewater Treatment - Consumption and Savings - Proposals for energy recovery from Wastewater Treatment Plants", Proceedings of the 2nd International Conference: The New Generation of Green Infrastructure", 8 November, 2012, Thessaloniki, Greece.