

## CURRICULUM VITAE



**Professor Konstantinos DERMENTZIS, Ph.D.**  
**Department of Chemistry**  
**International Hellenic University**

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## EDUCATION

<b>June 1981 - Mai 1984</b>	Doctorate (Dr.rer.nat.) in Inorganic Chemistry. Title of Dissertation Thesis: “Reaktionen von Boranen mit Schwefel Verbindungen – Darstellung höherer zyklischer Thioboran- bzw. Thioborat- Systemen” (1984). Supervisor: Professor Dr. Herbert Binder Institut für Allgemeine und Anorganische Chemie, Universität Stuttgart, Germany.
<b>1981</b>	Diploma in Chemistry, Department of Chemistry, University of Stuttgart, Germany.

## LANGUAGES

- **German** (graduate and post-graduate studies in Germany)
- **English** (Cambridge Certificate of Proficiency in English)

## WORKING EXPERIENCE

1981-1984	Scientific assistant at Inorganic Chemistry Laboratory, Department of Chemistry, University of Stuttgart, Germany.
1986 - 2012	Lecturer, Department of Engineering Science and Department of Petroleum Technology, Kavala Institute of Technology, Greece
2012-2017	Assistant Professor, Department of Petroleum and Mechanical Engineering, Eastern Macedonia and Thrace Institute of Technology, Kavala, Greece
2017-2021	Associate Professor, Department of Chemistry, International Hellenic University, (former Eastern Macedonia and Thrace Institute of Technology), Kavala, Greece
2001-2004	Scientific co-worker at the plastics electroplating unit “ALEVIZAKI”, Thessaloniki, Greece
2/5/2004– 6/12/2004	Scientific co-worker at the metal foundry unit “PONIK”, Thessaloniki, Greece.
2010-2017	Teaching participation in MSc program of Department of Environmental Engineering, Democritus University of Thrace, Xanthi, Greece
2021-present	Professor, Department of Chemistry, International Hellenic University, (former Eastern Macedonia and Thrace Institute of Technology), Kavala, Greece
Febr. 2019- present	Teaching in MSc program “Master in Oil & Gas Engineering” Department of Chemistry, International Hellenic University.

## Research Fields of Interest:

- Electrochemical methods (electrodeionization, electrocoagulation, anodic oxidation, electro-Fenton, electrosorption, capacitive deionization).
- Development of new alternative electrochemical methods of membrane-less electro dialysis and continuous electrodeionization using porous intermediate electrodes as electrostatic shielding zones- ionic current sinks, instead of the conventional cationic, anionic or bipolar ion exchange membranes.
- Continuous capacitive deionization with regenerative rotating film electrodes.
- Electrochemical desalination of brackish and seawater.
- Recovery of precious metals, spent catalysts and other valuable substances from industrial wastewaters.
- Electrokinetic-electroosmotic remediation of polluted soil.
- Electroosmotic dehydration of porous materials..
- Electrochemical processes powered by photovoltaic energy.

## Innovations:

The “rotating film electrodes” and “membrane-less” or “electrostatic shielding electro dialysis/electrodeionization” for continuous electrodeionization and capacitive deionization of water have been invented and studied in our Laboratory of General Chemistry & Physical Chemistry of International Hellenic University (former Eastern Macedonia and Thrace Institute of Technology).

The following innovative scientific terms have been introduced in literature for environmental applications by the publications numbered [13, 27, 33-39] and patent [1] :

- *continuous capacitive deionization with rotating film electrodes*
- *electrostatic shielding electrodeionization*
- *membrane-less electro dialysis*
- *ion and ionic current sink-source*

## Teaching notes for the following modules:

1. *Principles of Chemical Science* (theory)
2. *Inorganic Chemistry* (theory)
3. *Physical Chemistry* (theory + laboratory)
4. *General Chemistry* (theory + laboratory)
5. *Electrochemistry* (theory + laboratory)
6. *Analytical Chemistry* (laboratory)
7. *Basic concepts of Physical Chemistry* (theory)
8. *Metallorganic Chemistry* (theory)
9. *Special topics in Organic Chemistry* (theory)

## MEMBERSHIPS

### 1. Editorial Board member of international scientific journals

- Member of Editorial Board of “*Advances in Environmental Research, An International Journal*” (TECHNOPRESS).
- Member of Editorial Board of “*Global Journal of Energy Technology Research Updates*” (AVANTI Publishers).  
<http://avantipublishers.com/jms/index.php/gjetru>
- Member of Editorial Board of “*International Journal of Foods and Biosystems Engineering*”.

### 2. Scientific Committee member of international scientific conferences

- *2nd International Conference on Food and Biosystems Engineering (FaBE 2015)*, 28-31 May 2015, Mykonos Island, Greece.
- *3rd International Conference on Food and Biosystems Engineering (FaBE 2017)*, 1-4 July 2017, Rhodes Island, Greece.

### 3. Member of scientific societies

- *International Society of Electrochemistry (ISE)*
- *American Nano Society (ANS)*
- *Society of Petroleum Engineers (SPE)*
- *Integrated Publishing Association (IPA)*

## **Supervision of Ph.D. Dissertations:**

Supervision of two Ph.D. Dissertations in co-operation with Democritus University of Thrace and Aristotle University of Thessaloniki, Greece:

1. Title of Ph.D. Thesis: “Electrochemical treatment of industrial wastewater by capacitive deionization and electrocoagulation”  
Doctorant name: Dimitrios Marmanis  
Date of Commencement: June 2011  
Date of Completion: December 2015.
2. Title of Ph.D. Thesis: “Application of electrochemical technologies for treatment of organic and inorganic wastewaters”  
Doctorant name: Dimitrios Stergiopoulos  
Date of Commencement: September 2013  
Date of Completion: June 2021.

## Reviewer in scientific journals:

1. *Environmental Progress & Sustainable Energy*
2. *Electrochimica Acta*
3. *Journal of Hazardous Materials*
4. *Journal of Membrane Science*
5. *Chemical Engineering Journal*
6. *Chemosphere*
7. *Industrial & Engineering Chemistry Research*
8. *The Physical Chemistry Journal*
9. *Environmental Science and Technology*
10. *International Journal of Environmental Science and Technology*
11. *International Journal of Environmental Research*
12. *Fresenius Environmental Bulletin*
13. *Desalination & Water Treatment*
14. *Separation Science and Technology*
15. *Chemical Engineering Communications*
16. *Journal of Engineering Science and Technology Review*
17. *Environmental Technology*
18. *Membrane Water Treatment*
19. *Advances in Environmental Research*
20. *Journal of Advanced Oxidation Technologies*
21. *Frontiers in Environmental Science*
22. *Environmental Engineering and Management Journal*
23. *Arabian Journal of Chemistry*
24. *Journal of Water Process Engineering*
25. *Fuel*
26. *Journal of Cleaner Production*
27. *Electrocatalysis*
28. *Processes*

## PUBLICATIONS

### **A. Publications in scientific journals:** (\* *corresponding author*)

1. K. Dermentzis\*, K. Karakosta, N. Kokkinos, S. Mitkidou, M. Stylianiou, A. Agapiou, Photovoltaic driven electrochemical Remediation of Drilling Fluid Wastewater with simultaneous Hydrogen Production, *Waste Management & Research*, 1-9 (2022), DOI: 10.1177/0734242X221105414.
2. M. Stylianiou, M. Etienne, A. Zisimos, I. Christoforou, K. Dermentzis, A. Agapiou, Removal of toxic metals and anions from acid mine drainage (AMD) by electrocoagulation: the case of North Mathiatis open cast mine, *Sustainable Chemistry & Pharmacy* 29 (2022) 100737.
3. N. C. Kokkinos, D. C. Nkagbu, D. I. Marmanis, K. I. Dermentzis and G. Maliaris, Evolution of Unconventional Hydrocarbons: Past, Present, Future and Environmental FootPrint, *Journal of Engineering Science and Technology Review* 15 (2022) 15-24.
4. K. Dermentzis\*, K. Karakosta, Ch. Chatzichristou, T. Spanos, Removal of chromium (VI) from galvanic effluents by chemical coagulation and electrocoagulation, *Journal of Engineering Science and Technology Review* 14 (2021) 54-58.
5. D. Marmanis, A. Thysiadou, V. Diamantis, A. Christoforidis, K. Dermentzis, Performance of electrocoagulation process for the treatment of high salinity landfill-leachate, *Journal of Engineering Science and Technology* 14 (2021) 105-109.
6. T. Spanos, N. Mittas, C. Chatzichristou, K. Dermentzis, V. Topi, D. S. Spanou, A. Ene, L. Teodorof, E. Zubcov, O. Bogdevich, Evaluation of potable groundwater quality using environmetrics. The case of Nestos and Strymon river regions, Northern Greece, *Journal of Engineering Science and Technology Review* 14 (2021) 114-118.
7. K. Dermentzis\*, K. Karakosta, R. Kosheleva, N. Kokkinos, Electrochemical remediation of phthalocyanine dye wastewater and simultaneous hydrogen production, *Journal of Engineering Science and Technology Review* 13 (2020) 22-25.
8. D. Stergiopoulos, K. Dermentzis\*, K. Karakosta, P. Giannakoudakis, Batch and continuously operated electrooxidation process for removal of phenol from aqueous solution, *Revista de Chimie* 71 (2020) 397-404.
9. M. Stylianiou, E. Montel, K. Dermentzis, A. Agapiou, Electrochemical treatment of cattle wastewater samples, *Biomass and Waste Valorization*, 11 (2020) 5185-5196.
10. D. Stergiopoulos, K. Dermentzis\*, T. Spanos, P. Giannakoudakis, A. Agapiou, M. Stylianiou, Combined electrocoagulation/electrowinning process for recovery of metallic copper from electroplating effluents, *Journal of Engineering Science and Technology Review* 12, (2019) 1-4.
11. D. Marmanis, A. Eftaxias, K. Dermentzis, K. Marmani, V. Diamantis, Post-treatment of an anaerobic digester effluent using an electro-oxidation process. *International Journal of Terraspace Science and Technology* 12 (2019) 38-40.
12. V. Diamantis, A. Eftaxias, D. Marmanis, K. Dermentzis, A. Aivasidis. Book chapter 7: Electrochemical process coupled to anaerobic digestion for sustainable treatment in the future, June (2019) DOI: <https://doi.org.10.2166/9781780409740-0123>.

13. K. Dermentzis\*, W. Wessner, Continuous capacitive deionization with regenerative rotating film electrodes, *Electrochemistry communications* 92 (2018) 5-8.
14. D. Marmanis, K. Dermentzis\*, A. Christoforidis, V. Diamantis, K. Ouzounis, A. Agapiou, M. Stylianou, Electrochemical treatment of olive mill waste powered by photovoltaic solar energy, *J. Power Technologies* 98 (2018) 377-381.
15. K. Dermentzis\*, Removal of sulphide and COD from a crude oil wastewater model by aluminium and iron electrocoagulation, *Journal of Engineering Science and Technology Review* 9, (2016) 13-19.
16. K. Dermentzis\*, D. Stergiopoulos, D., Moutzakis, P. Giannakoudakis, Copper removal from wastewater by photovoltaic electrocoagulation process, *Water Utility Journal*, 14 (2016) 55-62.
17. D. Marmanis, K. Dermentzis\*, Design and application of electrochemical processes for decolorization treatment of Nylanthrene Red dye bearing wastewater, *Journal of Engineering Science and Technology Review* 9 (2016) 111-115.
18. K. Dermentzis\*, Brackish water desalination by capacitive deionization using nanoporous carbon aerogel electrodes, *Journal of Engineering Science and Technology Review* 9, (2016) 138-139.
19. K. Dermentzis\*, D. Marmanis, A. Christoforidis, A. Moutzakis, Photovoltaic electrocoagulation for remediation of chromium plating wastewaters, *Desalination and Water Treatment*, 56, (2015) 1413-1418 .
20. D. Marmanis, K. Dermentzis\*, A. Christoforidis, A. Moutzakis, Electrochemical decolorization of actual textile dye effluents by electrocoagulation process directly powered by photovoltaic energy, *Desalination and Water Treatment*, 56, (2015) 2988-2993.
21. K. Dermentzis\*, Stergiopoulos D., Moutzakis A., Electrochemical degradation of indigo carmine textile dye powered by solar photovoltaic energy, *Global Journal of Energy Technology Research Updates* 1, (2014) 90-95.
22. D. Stergiopoulos, K. Dermentzis\*, P. Giannakoudakis, S. Sotiropoulos, Electrochemical decolorization and removal of indigo carmine textile dye from wastewater, *Global NEST Journal* 16 (2014) 499-506.
23. D. Marmanis, K. Dermentzis\*, A. Christoforidis, K. Ouzounis, Electrochemical desalination of NaCl solutions using porous nano-structured carbon aerogel electrodes, *Global NEST Journal*, 16 (2014) 609-615.
24. K. Dermentzis\*, E. Valsamidou, C. Chatzichristou, S. Mitkidou, Decolorization treatment of copper phthalocyanine reactive dye wastewater by electrochemical methods, *Journal of Engineering Science and Technology Review*, 1 (2013) 33-37.
25. K. Dermentzis\*, D. Marmanis, A. Christoforidis, K. Ouzounis, Electrochemical reclamation of wastewater resulted from petroleum tanker truck cleaning, *Environmental Engineering and Management Journal*, 13, 1, (2013) 2395-2399.
26. D. Marmanis, K. Dermentzis, D. Stergiopoulos, A. Christoforidis, Cadmium removal by capacitive deionization using carbon aerogel electrodes, *Journal of Engineering Science and Technology Review*, 6, (2013) 165-166.
27. K. Dermentzis\*, A. Davidis, C. Chatzichristou, A. Dermentzi, "Ammonia removal from fertilizer plant effluent streams by an electrostatic shielding based coupled electrodialysis/electrodeionization process", *Global NEST Journal*, 14 (2012) 468-476.

28. K. Dermentzis\*, A. Christoforidis, E. Valsamidou, "Removal of nickel, copper, zinc and chromium from synthetic and industrial wastewater by electrocoagulation", *International Journal of Environmental Sciences*, (2011) 1, 5, 697-710.
29. K. Dermentzis\*, D. Marmanis, E. Valsamidou, A. Christoforidis, K. Ouzounis, Electrochemical decolorization treatment of nickel phthalocyanine reactive dye wastewater, *Environmental Engineering and Management Journal*, 10 (2011) 1703-1709.
30. K. Dermentzis\*, E. Valsamidou, A. Lazaridou, "Nickel removal from wastewater by electrocoagulation with aluminum electrodes", *Journal of Engineering Science and Technology Review*, 4 (2011) 188-192.
31. K. Dermentzis\*, A. Christoforidis, E. Valsamidou, A. Lazaridou, N. Kokkinos, "Removal of hexavalent chromium from industrial wastewater by electrocoagulation with iron electrodes", *Global NEST Journal*, 13 (2011) 412-418.
32. K. Dermentzis\*, E. Valsamidou, D. Marmanis, "Simultaneous removal of acidity and lead from acid lead battery wastewater by aluminum and iron electrocoagulation", *Journal of Engineering Science and Technology Review*, 5, 2, (2011) 1-5.
33. K. Dermentzis\*, "Removal of nickel from electroplating rinse waters using electrostatic shielding electro dialysis/ electrodeionization", *Journal of Hazardous Materials*, 173, (2010), 647-652.
34. K. Dermentzis\*, A. Davidis, A. Dermentzi, C. Chatzichristou, "An electrostatic shielding based coupled electro dialysis/electrodeionization process for removal of cobalt ions from aqueous solutions", *Water Science & Technology*, (2010) 62, 8 1947-53.
35. K. Dermentzis\*, A. Christoforidis, D. Papadopoulou, A. Davidis "Ion and Ionic Current Sinks for Electrodeionization of Simulated Cadmium Plating Rinsewaters", *Environmental Progress & Sustainable Energy* 30, 1 (2010) 37-43.
36. K. Dermentzis\*, D. Papadopoulou, A. Christoforidis, A. Dermentzi, "A new process for desalination and electrodeionization of water by means of electrostatic shielding zones-ionic current sinks", *Journal of Engineering Science and Technology Review*, 2, (2009) 33-42.
37. K. Dermentzis\*, A. Davidis, D. Papadopoulou, A. Christoforidis, K. Ouzounis, "Copper removal from industrial waste waters by means of electrostatic shielding driven electrodeionization", *Journal of Engineering Science and Technology Review*, 2, (2009) 131-136.
38. K. Dermentzis\*, "Continuous Electrodeionization through Electrostatic Shielding", *Electrochimica Acta*, 53, 6, (2008) 2953-2962.
39. K. Dermentzis\*, K. Ouzounis "Continuous Capacitive Deionization-Electrodialysis Reversal through Electrostatic Shielding for Desalination and Deionization of Water", *Electrochimica Acta*, 53, 24, (2008) 7123-7130.
40. Herbert Binder, Wolfgang Ehemann, K. Dermentzis, Einfache Synthese von 1,2,4,3,5- Trithiadiborolan aus B<sub>2</sub>H<sub>6</sub> und Rohsulfan. Monohydroborierung von Alkinen mit H<sub>2</sub>B<sub>2</sub>S<sub>3</sub>, *Zeitschrift für Naturforschung* 46b, (1991) 581-586.
41. Herbert Binder, Helge Loos, K. Dermentzis, Horst Borr-Mann, Arndt Simon, "[ (BH<sub>2</sub>)<sub>6</sub>S<sub>4</sub> ]<sup>2-</sup>: neue Chalkogenoborwasserstoff-Anionen mit Adamantanstruktur", *Chemische Berichte* 124, (1991) 427-432.



42. Herbert Binder, W. Diamantikos, K. Dermentzis, Hans-Dieter Hausen, "Eine neue Käfigverbindung mit dem Adamantangerüst C<sub>2</sub>B<sub>4</sub>S<sub>4</sub>", Zeitschrift für Naturforschung 37b, (1982) 1548-1552.
43. K. Dermentzis\*, D. Marmanis, A. Christoforidis, K. Ouzounis, Electrochemical removal of cadmium by electrosorption on nano-structured carbon aerogel electrodes, Environmental Engineering and Management Journal, (accepted).

## **B-C. International and national scientific conferences**

### ***B. International conferences:***

1. K. Dermentzis\*, K. Karakosta, A. Zamani, D. Marmanis, Electrochemical treatment of phosphate wastewater and simultaneous production of phosphorus and hydrogen, 22nd Romanian International Conference on Chemistry and Chemical Engineering, ICCCE 22, 7-9 Sept. 2022, Sinaia, Romania.
2. Ali Zamani, K. Dermentzis\*, Removal of Sulfide and COD from Petroleum Wastewater using Electrochemical Methods, Latin American International Conference on Natural and Applied Sciences-III, 4-6 October 2022, Villahermosa, Tabasco, Mexico.
3. K. Dermentzis\*, D. Marmanis, V. Diamantis, Application of electrocoagulation for recovery of phosphorus and hydrogen from phosphate containing wastewater, 5th International European Conference on Interdisciplinary Scientific Research, 28-29 January 2022, Valencia, Spain.
4. D. Marmanis, V. Diamantis, K. Dermentzis, Evaluation of electrocoagulation process for municipal wastewater treatment, 5th International European Conference on Interdisciplinary Scientific Research, 28-29 January 2022, Valencia, Spain.
5. K. Dermentzis\* Photovoltaic electrooxidation for phenol removal and energy harvesting via hydrogen production, "2nd Khazar International Conference on Scientific Research, 10-12 April 2021, Baku, Azerbaijan.
6. K. Dermentzis\*, N. Kokkinos, D. Marmanis, Application of electrochemical methods for treatment of drilling fluid wastewater, Intern. Conference 4th Tokyo Summit, 29-31 July 2021, Japan.
7. N. Kokkinos, D. Marmanis, K. Dermentzis, The contribution of virtual reality in awareness and preparedness of chemical industry professionals, Intern. Conference 4th Tokyo Summit, 29-31 July 2021, Japan.
8. D. Marmanis, N. Kokkinos, K. Dermentzis, Landfil lecheate treatment by combined electrochemical process, Intern. Conference 4th Tokyo Summit, 29-31 July 2021, Japan.
9. K. Dermentzis\*, K. Karakosta, N. Kokkinos, S. Mitkidou, M. Stylianou, A. Agapiou, Photovoltaic driven electrochemical Remediation of Drilling Fluid Wastewater with simultaneous Hydrogen Production, 8th International Conference on Sustainable Solid Waste Management, 23-26 June 2021, Thessaloniki, Greece.
10. M. Stylianou, E. Montel, A. Zissimos, I. Christoforou, K. Dermentzis, A. Agapiou, Electrocoagulation treatment of North Mathiatis (Cyprus) acid mine water (AMW), 8th International Conference on Sustainable Solid Waste Management, 23-26 June 2021, Thessaloniki, Greece.
11. K. Dermentzis\*, D. Stergiopoulos, K. Karakosta, D. Marmanis, P. Giannakoudakis, Batch and continuously operated electrooxidation process for remediation of phenol

- bearing wastewater, 21st Romanian International Conference on Chemistry and Chemical Engineering, ICCCE 21, 4-7 Sept. 2021, Constanta, Romania.
12. R. Kosheleva, K. Karakosta, K. Dermentzis\*, Hydrogen harvesting and phthalocyanine dye wastewater remediation by continuous electrocoagulation, Young Chemist Summit 2020, 21-23 Sept. 2020, Innsbruck, Austria.
  13. K. Dermentzis\*, K. Karakosta, Ch. Chatzichristou, Th. Spanos, Removal of chromium (VI) from galvanic effluents by chemical coagulation and electrocoagulation, MONITOX Int. Conf. Environmental Toxicants in Freshwater and Marine Ecosystems in the Black Sea Basin, 8-11 sept. 2020, Kavala, Greece.
  14. Ch. Chatzichristou, Th. Spanos, G. Zaimis, A. Ene, K. Dermentzis, V. Topi, C. Despina, Assessment of physical-chemical characteristics of surface water in Nestos river: a review, MONITOX Int. Conf. Environmental Toxicants in Freshwater and Marine Ecosystems in the Black Sea Basin, 8-11 sept. 2020, Kavala, Greece.
  15. Th. Spanos, N. Mittas, Ch. Chatzichristou, S. mitkidou, K. Dermentzis, N. kokkinos, V. Topi, D.S. Spanou, A. Ene, O. Bogdevich, E Zubcov, L. Teodorof, Evaluation of ground water quality through environmetrics. The case of Nestos and Strymon river regions, Northern Greece, MONITOX Int. Conf. Environmental Toxicants in Freshwater and Marine Ecosystems in the Black Sea Basin, 8-11 sept. 2020, Kavala, Greece.
  16. K. Dermentzis\*, N. Kokkinos, K. Karakosta, D. Marmanis and V. Diamantis, Remediation of phenol bearing wastewater by photovoltaic electrooxidation process, 18th Austrian Chemistry Days 2019, 24-27 Sept. 2019, Linz, Austria.
  17. K. Kokkinos, S. Mitkidou, K. Dermentzis, D. Marmanis, V. Diamantis, K. Karakosta, One-pot green upgrade of refinery gasoline, 18th Austrian Chemistry Days 2019, 24-27 Sept. 2019, Linz, Austria.
  18. D. Marmanis, K. Dermentzis, N. Kokkinos, A. Eftaxias, V. Diamantis, Coupling anaerobic digestion and electrooxidation for biogas and nutrients recovery from animal by-products, 18th Austrian Chemistry Days 2019, 24-27 Sept. 2019, Linz, Austria.
  19. M. Stylianou, E. Montel, K. Dermentzis, M. Papapetrou, A. Agapiou, Electrochemical treatment of cattle waste with the use of AL-Al electrodes, HERAKLION 2019, 7th Int. Conference on Sustainable Solid Waste Management, 26-29 June 2019, Heraklion, Crete, Greece.
  20. D. Marmanis, K. Dermentzis, K. Karakosta, K. Marmani, V. Diamantis, Treatment of animal by-products by combined anaerobic digestion and electrooxidation, International Conference on Sustainable Bio-waste Treatment, 5-6 Dec. 2019, Limassol, Cyprus.
  21. T. Spanos, A. Mitas, A. Ene, C. Chatzichristou, K. Dermentzis, O. Bogdevich, Evaluation of groundwater quality through environmetrics. The case of Kavala region. Monitox International Symposium "Deltas and Wetlands", 15-17 Sept. 2019, Tulcea, Romania.
  22. D. Marmanis, K. Dermentzis\*, A. Christoforidis, V. Diamantis, K. Ouzounis, A. Agapiou, M. Stylianou, Electrochemical treatment of olive mill waste powered by photovoltaic solar energy, 6th Intern. Conference RESEE2018, 1-2 Nov. 2018, Nicosia, Cyprus.
  23. V. Diamantis, A. Aivasidis, D. Marmanis, K. Dermentzis, Coupling anaerobic digestion and electrooxidation for sustainable waste treatment: a review, 6th International Conference on Sustainable Solid Waste Management NAXOS2018, 13-16 June 2018, Naxos Greece.

24. K. Dermentzis\*, Treatment of chromium electroplating effluents by chemical and electrochemical coagulation process, 6th International Conference ECOLOGICAL AND ENVIRONMENTAL CHEMISTRY, 2-3 March 2017, Chisinau, Moldova.
25. D. Marmanis, E. Valsamidou, K.Fraggidis, A. Moumtzakis, K. Dermentzis\*, Treatment of olive mill wastewater by a combined electrocoagulation/ electrooxidation process, 9th Eastern European Young Water Professionals Conference, 24-28 May 2017, Budapest, Hungary.
26. K. Dermentzis\*, D. Marmanis, A. Christoforidis, D. Stergiopoulos, Electrochemical recovery of metallic copper from galvanic effluents, 13th Intern. Conf. PHYSICAL CHEMISTRY 2016, Proceedings, Vol. 1, pp. 367-370, 26-30 Sept. 2016, Belgrade, Serbia.
27. K. Dermentzis\*, Electrochemical mineralization of phenol from wastewater by the electro-Fenton process, Slovenian Chemical Days 2016, 28-30 Sept. 2016, Portoroz Slovenia.
28. K. Dermentzis\*, D. Marmanis, A. Christoforidis, N. Kokkinos, D. Stergiopoulos, Recovery of metallic nickel from waste sludge produced by electrocoagulation of nickel bearing electroplating effluents, CYPRUS 2016, 4th Int. Conf. on Sustainable Solid Waste Management, 23-25 June 2016 Limassol, Cyprus.
29. K. Dermentzis\*, Continuous capacitive deionization of brackish water with regenerable flowable electrodes, The XXXIV Romanian Chemistry Conference, 4-7 Oct 2016, Calimanesti, Romania.
30. K. Dermentzis\*, Electrosorptive remediation of chromium (VI) bearing wastewater, 7th Panhellenic Symposium (with international participation) on porous Materials, 2-4 June 2016, Ioannina, Greece.
31. K. Dermentzis\*, Electrochemical remediation of tannery wastewater by photovoltaic electrocoagulation, Protection and Restoration of the Environment, PRE13, 3-8 July 2016, Mykonos, Greece.
32. K. Dermentzis\*, D. Marmanis, A. Christoforidis, D. Stergiopoulos, Electrochemical removal of sulphide and COD from petroleum wastewater, 19th Romanian International Conference on Chemistry and Chemical Engineering, ICCCE 19, 2-5 Sept. 2015, Sibiu, Romania.
33. K. Dermentzis\*, D. Stergiopoulos, Removal of phenol from wastewater by electrooxidation at boron doped diamond anodes, Slovenian Chemistry Days, 24-25 Sept. 2015, Ljubljana, Slovenia.
34. K. Dermentzis\*, D. Marmanis, A. Christoforidis, N. Kokkinos, Removal of hexavalent chromium from wastewater using capacitive deionization, 7th East European Young Water Professionals Conference, IWA, 17-19 Sept. 2015, Belgrade, Serbia.
35. K. Dermentzis\*, Dimitrios Stergiopoulos, Anastasios Moumtzakis, Treatment of Industrial Copper Plating Wastewater using Photovoltaic Electrocoagulation, 2nd International Conference EWRA, WASTENET, 19-21 June 2015, Kavala, Greece.
36. K. Dermentzis\*, D. Marmanis, A. Christoforidis, Remediation of heavy metal bearing wastewater by photovoltaic electrocoagulation, 2nd International Conference "Water Resources and Wetlands", ISSN: 2285-7923, pp.257-262, 11-13 Sept. 2014, Tulcea, Romania.
37. K. Dermentzis\*, D. Marmanis, A. Christoforidis, N. Kokkinos, E. Apostolidou, Removal of nickel phthalocyanine reactive dye from wastewater by photovoltaic electrocoagulation, 12th International Conference on Fundamental and Applied Physical Chemistry, 22-26 Sept. 2014, Belgrade, Serbia.
38. N. Kokkinos, Ch. Papadopoulos, A. Lazaridou, N. Nikolaou, S. Mitkidou, K. Dermentzis, A. Chatzigakis, and A. Mitropoulos, Upgrade of a naphtha cut to a

- strong anti-knocking mixture: An integrated approach to applied heterogenised homogeneous catalysis in aqueous media, BIT's 5th Annual Global Congress of Catalysis-2014, 21-23 September, 2014, Qingdao, China.
39. K. Dermentzis\*, D. Marmanis, A. Christoforidis, K. Ouzounis, Electrochemical reclamation of petroleum tanker truck cleaning wastewater, International Conference on Environmental Engineering and Management, ICEEM 07, 18-21 Sept. 2013, Vienna, Austria.
  40. K. Dermentzis\*, D. Marmanis, A. Christoforidis, K. Ouzounis, Quasi-continuous capacitive deionization for removal of cadmium from wastewater, International Solid waste, Water and Wastewater Congress, 22-24 May 2013, Istanbul, Turkey.
  41. K. Dermentzis\*, D. Marmanis, A. Christoforidis, K. Ouzounis, Electrochemical treatment of wastewater from oil tanker ships washing plants, 17th International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region, MESAEP 2013, Sept. 29 to October 1, 2013, Istanbul, Turkey.
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